

**SAN DIEGO  
STATE COLLEGE  
BULLETIN**

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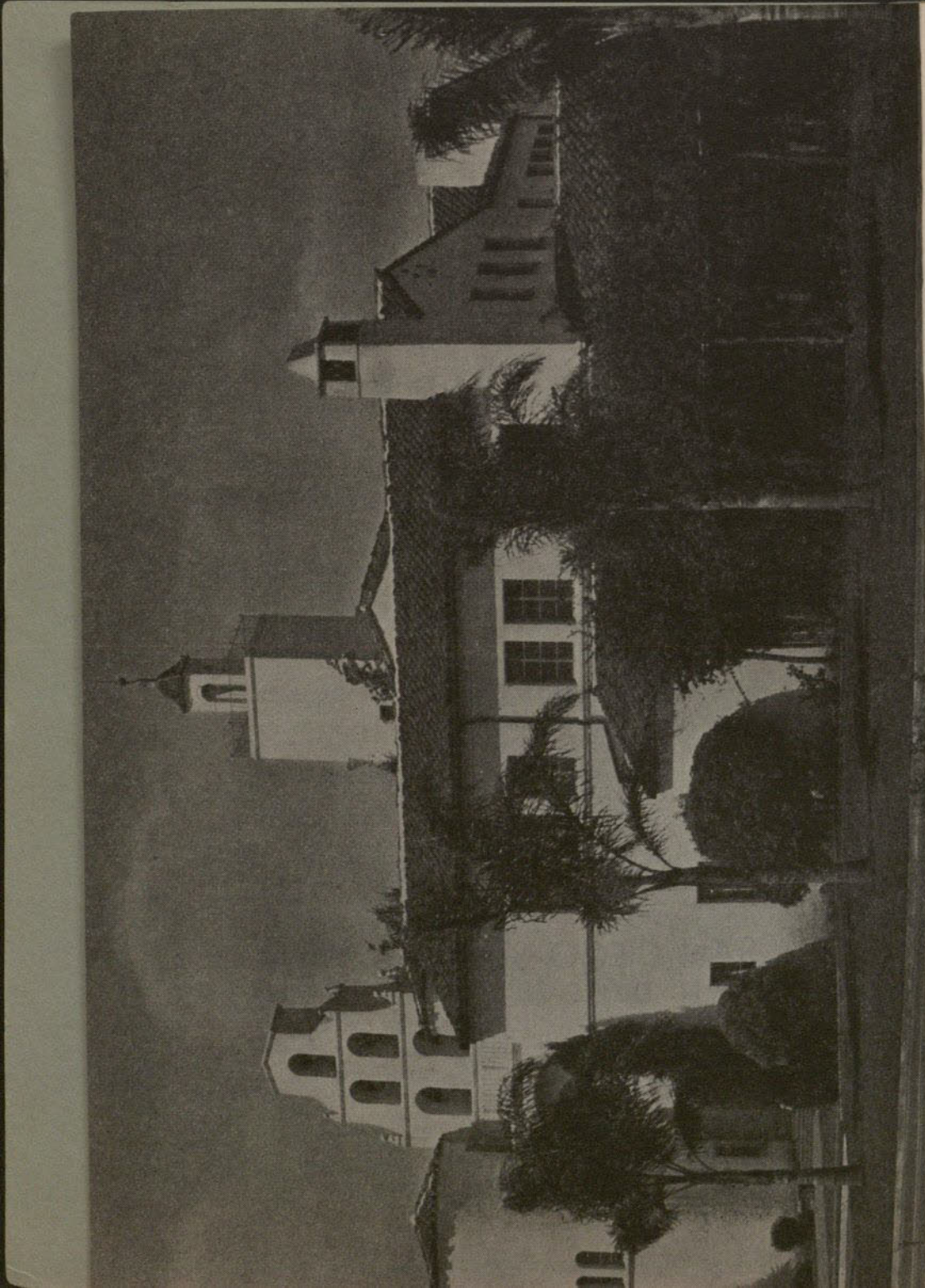
# BULLETIN AND ANNOUNCEMENT OF COURSES

VOLUME 29  
NUMBER 2  
JUNE, 1941

SAN DIEGO STATE COLLEGE  
SAN DIEGO, CALIFORNIA

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*A Section of the Academic Building  
with the Library Tower  
in the background*

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## CALENDAR 1941-1942

### SUMMER SESSION, 1941

Term I, six weeks, June 23-August 1

Term II, three weeks, August 4-August 23

### FALL SEMESTER, 1941-1942

September 1 Applications for admission must be filed on or before this date.

September 8 Students who have not received notice that they have been granted admission by this date must delay registration until September 20.

September 11, 12 Entrance examinations for all entering Freshmen who have not previously taken these examinations. No Freshman will be granted admission until these examinations have been taken.

September 13 First day of the Orientation Program. All entering Freshmen must appear on the campus for this program, beginning at 8 a.m. and lasting until noon on this day.

September 15 Second day of the Orientation Program. All entering students are required to attend the program on this day, beginning at 8 a.m. and lasting throughout the entire day.

10:00-11:00 a.m. College Aptitude Test for students entering with advanced standing.

1:00- 4:00 p.m. Fundamentals Tests — Required for admission to Upper Division Teacher Training. Should be taken at the end of the first semester of the Freshman year where possible.

September 16 Registration and payment of fees.

September 17 Instruction begins. Late registration fee becomes effective.

November 11 Armistice Day Holiday.

November 20, 21 Thanksgiving Recess.

December 19 Last day before Christmas Recess begins.



# CALENDAR 1941-1942—Continued

January 5	Classwork resumes.
January 28-February 4	Semester Examinations.

## SPRING SEMESTER, 1941-1942

January 26	Applications for admission must be filed on or before this date.
February 2	Students who have not received notice that they have been granted admission by this date must delay registration until February 14.
February 7	First day of the Orientation Program. All entering Freshmen must appear on the campus for this program, beginning at 8 a.m. and lasting until noon on this day.
February 9	Second day of the Orientation Program. All entering students are required to attend the program on this day, beginning at 8 a.m. and lasting throughout the entire day. 10:00-11:00 a.m. College Aptitude Test for students entering with advanced standing. 1:00- 4:00 p.m. Fundamentals Tests — Required for admission to Upper Division Teacher Training. Should be taken at the end of the first semester of the Freshman year where possible.
February 10	Registration and payment of fees.
February 11	Instruction begins. Late registration fee becomes effective.
April 6-10	Spring Recess.
April 26	Founder's Day.
June 11-18	Semester Examinations.
June 19	Annual Commencement.

## SUMMER SESSION, 1942

Term I, June 29-August 7
Term II, August 10-August 28

## THE COLLEGE

### Historical Sketch

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

The second cycle of its growth began in 1921 when the legislature converted all California normal schools into State teachers colleges and when the San Diego Junior College was merged with the teachers college. Lower division courses were then available within 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. The State Board of Education, at that time and subsequently, authorized the following teaching credentials, which are 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, and speech arts. 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 sixteen was finally reached: art, chemistry, commerce, economics, education, English, geography, history, mathematics, music, physical science, physics, Romance languages, social science, speech arts and zoology.

In September, 1935, the college entered upon its third phase when it became, by legislative enactment, the San Diego State College. This change in status permitted 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 sixteen majors enumerated above.

### 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. Many of these advantages 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 architecture. Housed in these buildings are the Fine Arts Gallery, exhibits in anthropology, natural history, and American archaeology which are in many respects unsurpassed. The outdoor organ, the Ford Bowl, and the horticultural gardens make Balboa Park, in which all these facilities are located, world renowned. The



Scripps Institute of Oceanography, operated by the University of California at La Jolla, gives opportunity for important cooperation in the biological sciences.

### Buildings and Equipment

On February 1, 1931, the college was moved to the new campus, located one mile north of the city's principal east-west boulevard, El Cajon Avenue. The buildings are of Spanish-Moorish architecture which is well suited to the landscape and climate of this region. They include the Academic Building (which houses lecture halls, classrooms and administrative offices); the Science Building; the Library, the Little Theater; the Campus Elementary School; Scripps Cottage (a social club house for women students); the Cafe and Book Store; 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 stadium, constructed in a natural site, has a seating capacity that is adequate for present needs. Ultimately it will accommodate approximately 45,000 people.

### Facilities for the Training of Teachers

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

By arrangement with the San Diego City Schools, practice teaching is provided in the Euclid elementary school for one-half day throughout a semester. 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 its size. The library consists of well over 75,000 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 Campus Elementary School Library, representing a collection of 9000 volumes possesses equipment and building facilities that are unique.

### Living Accommodations

The college does not maintain dormitories since nearly all of the students live with parents or guardians. Living arrangements for students whose homes are not in San Diego or within commuting distance are made through the offices of the Dean of Women or the Dean of Men. All women students are urged to live in the residence hall adjoining the campus. Careful consideration is given to study conditions, healthful

living and adequate social opportunities. Room and board may be secured for as little as \$160.00 per semester, payable in four installments. Opportunities to reduce this figure by working a few hours each week are occasionally available. Reservations should be made in advance through the Office of the Dean of Women. Where students find other accommodations more desirable, written permission from parents must be secured and filed with the Dean of Women.

### Student Life

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

### Student Health Service

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

A representative of the Health Department is available 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

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

Included in the services of the office are part time jobs of all types available, N. Y. A., teacher placements, and full time jobs in commerce and industry.

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

The Placement Secretary, or one of the following persons, should be seen or called regarding vacancies or work applications:

Director of Teacher Placement.

Director of Commercial and Industrial Placement.  
N. Y. A. Secretary.



## Alumni Association

The college has an active Alumni Association. Since its reorganization in March, 1921, the association has steadily gained in membership. An important event is the annual Homecoming; 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 in care of the college.

## Student Health Service

The Health Department is maintained for the protection and care of the student body. A complete physical examination is made of each student at the time of enrollment. The department also maintains a record of the health of each student and is in constant communication with the local health authorities.

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## FEES AND EXPENSES

### Probable Expenses for One Semester

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

#### A Partial Estimate of Expenses

One Semester		Minimum	Maximum
Fees and Deposits-----		\$ 20.00	\$ 27.50
Books -----		12.00	18.00
Board and Room-----		125.00	175.00
Incidentals:			
Transportation -----		10.00	20.00
Lunches (daily in cafe)-----		35.00	50.00
Organizations:	Average		
Fraternity			
Initiation and pin-----	\$16.50	\$7.50	\$25.00
Dues and Assessments-----	5.50		
Sorority			
Initiation and pin-----	16.00	16.75	25.00
Dues and Assessments-----	8.00		
Miscellaneous -----			5.00

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.

### <sup>1</sup> List of Fees and Deposits (Subject to Revision)

#### ENROLLMENT FEES AND DEPOSITS

##### PAYABLE AT TIME OF REGISTRATION

By all students:

#### Tuition:

*Resident students .....	\$6.50
Limited students (5 units or less)—per unit.....	2.50
Nonresident students—1st semester.....	75.00
2d and subsequent semesters.....	37.50

<sup>1</sup> Auditors pay same fees as students enrolled for credit.

<sup>2</sup> See page 18 for definition of residence for fee-paying purposes.



<sup>1</sup> Student activity fees	\$6.00
Associated Students	\$5.50
Associated men students or associated women students	.50
General service deposit	3.00
By new students only (in addition to the above)	
Personnel examinations	2.00

### DEPARTMENTAL FEES

#### PAYABLE DURING SIXTH WEEK OF SEMESTER

General service fee (paid by all students)	\$1.00
Health	\$0.50
Library	.50

In addition, fees ranging from 50¢ to \$7.50 per course are charged for certain courses, a complete list of these being issued at registration time. A penalty of \$1.00 is charged for failure to pay at the required time.

### MISCELLANEOUS FEES AND DEPOSITS

#### DEPOSITS PAYABLE BEFORE LABORATORY WORK IS STARTED

Chemistry	\$5.00
Geology 21A-21B	1.00
Physics	2.00

#### FEES PAYABLE WHEN SERVICE IS RENDERED

Change of program	.50
College Bulletin (free to prospective students)	.20
Duplicate library card	.10
Duplicate registration book	.10
<sup>2</sup> Evaluation of record for advanced standing	2.00
Fundamentals test	.50
Late filing of registration book	1.00
Late registration	1.00
Locker	.25
Special examination	.50
<sup>3</sup> Transcript of record (1st copy free)	.50

### GRADUATION FEES

State Teaching Credentials (each credential)	\$3.00
Elementary	
Elementary and Junior High	
Special secondary	
School administration	

The credential fee is collected through the college by post office money order made 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.

<sup>1</sup> Paid by all students enrolled for more than 5 units.

<sup>2</sup> Paid by all students entering with advanced standing.

<sup>3</sup> The 50-cent fee must accompany each application for a transcript of record. Ten cents will be charged for each duplicate of this record which accompanies the original.

## ADMISSION AND REGISTRATION

### General Admission Requirements

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

**Admission of High School Graduates** Candidates for admission may demonstrate their qualifications by satisfying two requirements: (1) All applicants must demonstrate readiness for college instruction by making satisfactory scores on such tests as the college may designate, and (2) they must present satisfactory evidence of previous scholarship.

Students will be granted *regular* status if they have earned recommended grades\* in not less than 16 courses of one semester's duration in English, Social Science, Foreign Language, Mathematics, Natural Science, and related fields, during the tenth, eleventh, and twelfth years in high school. *Regular* students may enroll in either a degree curriculum or in one of the two-year curricula.

Students will be provisionally granted *regular* status if they have earned recommended grades\* in not less than 12 courses of one semester's duration in English, Social Science, Foreign Language, Mathematics, Natural Science, and related fields, during the tenth, eleventh, and twelfth years in high school. If at the end of one semester they have maintained a scholarship average of C or better in not less than 12 units of work, they will retain their *regular* status. Failing to do this, they will be disqualified.

Students who do not qualify for *regular* status must enroll in one of the two-year curricula. They must have earned recommended grades\* in at least 12 courses of one semester's duration, completed during the tenth, eleventh, and twelfth years in high school. Individuals who fail to meet this standard may be admitted to the two-year curricula if their achievement on the entrance examinations indicates probable success in these courses.

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

**Admission with Advanced Standing** Credit earned in recognized institutions of collegiate grade will 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 student has met the standards and requirements of this institution.

\* Grades of A or B or the equivalent.



Applicants for advanced standing must show an average grade of *C* or better in all college work previously undertaken to qualify for admission to regular status. 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 deposit must accompany the application for admission. This deposit will be refunded if the student enrolls at the next regular registration period.

**Admission of Special Students.** 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 1941-42 will take place on September 16, and for the spring semester on February 10. Candidates for admission may obtain an application blank from the Registrar which must be filed, with complete transcripts of record, two weeks before registration. *See calendar on page 7.*

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 students who wish to secure supplemental credit or to shorten the time for completion of their college course.

### 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 the orientation program.
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. All entering students who are not transferring with advanced standing must take a High School Achievement Examination, a Reading Test, and a standard English Examination.
4. The Subject A Test (English Composition) is required of all entering students. English L1A or L1AA 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 L1A or L1AA. Exceptions may be made for students transferring credit in English from other colleges.

5. 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 second semester of their freshman 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 one dollar must be paid for registration after the regular registration day and the instructor's approval must be secured for each course entered after the first week of the semester.

### Changes in Registration

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 20.

### Auditors

Auditors register in the usual way and pay the same fees as those who are registered for credit.

### Loans and Scholarships

Scholarships for both men and women have been made available through the efforts of alumni, and civic organizations. Superiority in scholarship and worthiness from the point of view of need 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 the offices of the Dean of Men and Dean of Women.



## GENERAL REGULATIONS

### Officers for Consultation

Concerning the housing and living arrangements of students, personal problems, etc.—The Dean of Women; The Dean of Men.

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

Concerning study lists and personal problems of *two-year* students—Director of Guidance for Two-Year Students.

Concerning admission, program of studies, credits, degree requirements, etc.—The Registrar; The Dean of Liberal Arts; The Dean of Education.

Concerning health and physical condition—The Health Department.

Concerning student-body affairs, student-body policy—The executive officers of the student body, The Dean of Liberal Arts.

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

Concerning admission to 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.

Concerning entrance requirements and offerings at other institutions—The Registrar; The Dean of Liberal Arts; The Dean of Education.

### Residence

The law designates the residence of the father to be that of the minor. Upon the death of the father, the mother's residence becomes that of the minor. In case of legal separation or divorce the minor's residence shall be determined by court action which designates who shall have custody of the minor.

Barring legal separation or divorce, the residence of the husband is the residence of the wife.

### Classification

**Full time students** are those students who have complied with the requirements for admission and are registered in more than 5 units of work. Full-time students are expected to carry 12 units of work unless excused.

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

**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.

**Regular students** are those who are qualified to enroll in curricula leading to the Bachelor of Arts degree.

**Two-year students** are those who are enrolled in one of the two-year completion curricula by choice or because they have failed to meet the scholarship standards required for *regular* status.

**Class.** For convenience in administration, students who have completed 0 to 29 units of work are classified as freshmen; 30 to 59 units as sophomores; 60 to 89 units as juniors; and more than 90 units as seniors.

### Scholarship, Grades, and Grade Points

The following grades are used in reporting the standing of students at the end of each semester: *A*, excellent; *B*, good; *C*, fair; *D*, passed; *E*, conditioned; *F*, failed; *I*, incomplete, and *W*, withdrawn.

The grade *E* is 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 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.

Grade points are assigned as follows: Grade *A*, 3 points per unit; *B*, 2 points per unit; *C*, 1 point per unit; *D*, no points; *E*, minus 1 point per unit; *F*, minus 1 point per unit. The number of grade points a student has earned in a subject is determined by multiplying the number of points he has received by the number of units allowed.

The grade point average is determined by taking the algebraic sum of the grade points earned and dividing by the number of units attempted. Subjects in which the student receives an *I* or a *W* grade are disregarded in computing grade point averages.

A student must earn at least a *C* average in all work undertaken at the college to qualify for a certificate in any curriculum, a diploma of graduation, or a transcript of record with recommendation to another collegiate institution.

### Units of Work and Study-Lists Limits

A unit of credit represents approximately three hours of actual work per week throughout one semester. It represents one hour of lecture or recitation combined with two hours of preparation, or in the case of laboratory credit, three hours of laboratory or field work.



Sixteen units in addition to physical education (16½ units) constitute a normal semester's program for all students. Entering students are not ordinarily permitted to enroll for more than 16 units,\* and all other students are limited to 18 units.\*

Even though a student has carried a heavier program, he may not ordinarily apply more than 16 units\* toward graduation. Certain exceptions to this rule exist where the student has successfully carried at least 12 units during the preceding semester: 1) 17 units\* will be credited toward graduation if the student has maintained an average of not less than 1.5 grade points during that semester, and 2) 18 units\* will be credited if a grade point average of at least 2.0 has been maintained. Any course in which a student received a passing grade may be used in the satisfaction of course requirements, even though the credit for such a 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 permitted to register for less than 12 units without the approval of the Dean of Liberal Arts or the Dean of Education.

### Probation and Disqualification

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

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

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

### Withdrawals from Class

A student may obtain forms for withdrawal from class at 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 upon his permanent record for those classes which he has dropped. If he withdraws during the last half of that twelve weeks period a grade representing the level of work maintained up to the time of withdrawal will be recorded upon a supplementary record. If he withdraws from class during the last six weeks of the semester either an *I* or an *F* will be recorded upon his permanent record.

\* In addition to physical education activity courses.

Students who withdraw from all classes during the course of a semester must petition the Executive Committee at such time as they seek readmission to the college.

### Transcripts of Record

Students may secure one transcript of record without fee. Thereafter, requests for a transcript should be accompanied by a transcript fee of fifty cents. Once 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 Teacher Training, and whose entire record, and also his record for the preceding semester, does not average at least a *C* grade.

### The Honors Group

All students who at the end of the Sophomore year have attained a grade-point average of 2.5, and such others as have attained a high average in the department in which their Major is selected, and who have received the recommendation of that department and the consent of the Committee on Honors, may if they so elect, constitute an honors group, for special treatment in their Major subject.

Such students, so far as the facilities of the department and the best interests of the students under its charge allow, shall be treated as befits their individual needs and as their individual capacities warrant. They shall be eligible to enroll in honors or special study courses, although credit in such courses shall be limited to 5 units a semester. They shall not be held to regular attendance in the established courses of their departments if, in the opinion of the instructor, the course requirements can be met through special assignments and examinations or by satisfactory performance in the regular examinations in the course. With the consent of the major department, requirements concerning minors and specific courses or sequences in the major may be set aside. Each honor student shall be assigned to a member of his Major department for advice and direction.

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

*Students who wish to apply for entrance in the Honors Group may do so by filling out cards to be obtained from their major departments. The applications should be filed with the chairman of the major department not later than a week after registration opens. Units earned by students doing individual study under this plan will be recorded under the symbol 166 and will be subject to the formulated rules dealing with limitations of student load.*



## The Degree with Honors

Honors at graduation shall be granted to those students only who have completed the major with distinction, and who have a general record satisfactory to the Committee on Honors.

Before Commencement each department shall determine, by such means as it may deem best (for example, by means of a comprehensive examination) which students it will recommend for honors at graduation, and report its recommendations to the Committee on Honors.

The Committee on Honors will consider departmental recommendation, confer with the several departments about doubtful cases, and transmit to the faculty its recommendations concerning the award of Honors.

## Examinations

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

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

Students shall pay a special examination fee of fifty cents 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.

## Extension Courses

An extension program covering a wide range of offerings is made available each semester. Members of the regular college faculty and others expert in special fields instruct extension classes. The extension program is designed to serve the needs of San Diego and neighboring communities for courses on the college level that are not available on the campus, or that should be offered at times and places more convenient to special groups. Extension courses are considered the equivalent of campus courses and the amount of credit available to any one student in one semester through extension courses or a combination of campus and extension courses is subject to the same study-load limitations that apply to students regularly enrolled for campus courses. Fees for extension courses vary somewhat with the place where the instruction is offered, but will not exceed \$6.00 per unit for the year 1941-1942.

Information concerning extension offerings is included in the special bulletin of extension courses which may be obtained on application to the Director of Extension Service.

The amount of credit for extension and correspondence courses acceptable in fulfillment of the requirements for the Bachelor of Arts degree will depend upon the nature of the courses, the quality of the work done, and the students preparation for work in the field of the course. The college reserves the right to limit credit to such courses as have been approved, and the total of such acceptable credit to 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 Bachelor of Arts degree. Not less than 54 of these units must be completed in the junior and senior years. At least 30 units must be earned in this college, and not less than 24 of these residence units must ordinarily be taken with the rank of senior. Not fewer than 12 units of this work must be completed during a single semester; or in lieu of this at least 16 units must be completed in not less than two consecutive summer sessions.

### LOWER DIVISION

#### Subject Matter Requirements in the Lower Division

Physical Education .....	2 units
Health Education 1 or 2 .....	2 units
English .....	6 units
Psychology .....	3 units
*Foreign Language .....	15 units

Mathematics A and B, 4 units, or high school algebra and geometry .....	4 units
Social Sciences .....	14 units
Natural Sciences .....	14 units
*Year-course in foreign language or in mathematics, or in philosophy (This year-course is an additional requirement to those listed above) .....	6 units

Electives to make total of 60 units.<sup>1</sup>

#### Explanation of Lower Division Requirements

**English** This requirement may be satisfied either in the freshman year or in the sophomore year. Courses are to be chosen from the following: English L1A or L1AA, 1B or 1C, 2A, 2B, 2C, 2D, 2E, 2F, 50A, 50B, 52A, 52B, 56A, 56B.

**Psychology** Psychology 1A.

\* Not required in the teacher training curricula.

<sup>1</sup> Electives should include lower division preparation for the major. See pages 67-144. Requirements for the minors may be partially satisfied in the lower division. See page 26.



**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 and no language is required in teacher training. Each year of acceptable high school work in a foreign language will be counted in satisfaction of 5 units of this requirement. Not less than two high school year-courses is acceptable in any language.

**Social Sciences**<sup>1</sup> Fourteen units chosen from two or more departments are required in this field. All students must present credit for Social Science 1A or for an acceptable equivalent.

Additional lower division courses to meet the social science requirement must be chosen from the following list and all except teacher training students must include one of the year courses marked with an asterisk: Anthropology 50A-50B\*, 54, 55; Economics 1A-1B\*, 18A-18B; Geography 2 or 10B; History 4A-4B\*, 8A-8B\*; Political Science 1A-1B\*, 71A-71B\*; Social Science 1B; Sociology 50A-50B\*.

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**<sup>1</sup> Fourteen units chosen from courses representing each of the following groupings are required:

- (a) Biology 1 or a year course in high school or college biology, botany, physiology or zoology.
- (b) Physical Science 1A or 1B 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 taken with grades not lower than C may be used to satisfy the natural science requirement. *College courses:* Astronomy 1, 9, 2; Biology 1, 10A-10B,\* Botany 2A,\* 2B,\* 4; Chemistry 1A,\* 1B,\* 2A-2B,\* 7-8,\* Geography 1 or 3 (only one course may be counted toward requirement); Geology 1A, 1B\*, 2A, 2B; Physical Science 1A, 1B; Physics 2A-2B, 3A-3B,\* 1A-1B,\* 1C-1D,\* Zoology 1A,\* 1B\*.

Two units of this requirement may be chosen from upper division courses.

**Mathematics** High school elementary algebra (or Mathematics LA) and high school plane geometry (or Mathematics LB).

<sup>1</sup> Teacher training students should follow carefully the curricular outlines to meet specific course requirements in this field.  
\* Not required in the teacher training curricula.

**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 by all except teacher training students.

**Modern foreign language:** Any two consecutive college courses, or any two consecutive high school year courses.

**Latin:** Two years of high school courses in Latin.

**Mathematics:** D, or C, or equivalent, and either 1, 3A, or 8. Students with the Commerce major may take Mathematics D, or equivalent, and Economics 2.

**Philosophy:** 5A-5B.

**Lower Division Preparation for the Minor** See description of requirements for liberal arts minors on page 26 and for teaching minors on page 29.

**Lower Division Preparation for the Major** See description of requirements for teaching majors on page 29. Specific requirements for the majors in the liberal arts curricula are listed in connection with the descriptive list of courses in each major field (see pages 67-144).

**Junior Certificate** The junior certificate will be granted on the completion of 60 units and the satisfaction of all lower division requirements.



## Specific Upper Division Requirements for the Liberal Arts Curricula

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

### UPPER DIVISION

#### Subject Matter Requirements

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

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

#### Explanation of Requirements

**Political Science 101** Political Science 113 or 175A-175B or History 171A-171B or 173A-173B will be accepted as substitutes for this requirement.

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

*A minor consists of at least twelve units of work completed in one of the above fields of study. It is required that at least six of these units must be earned in upper division courses during junior or senior years. The entire requirement for a minor may be met with upper division courses provided these courses have no lower division prerequisites. Prerequisites for each course are listed among the course descriptions on pages 67 to 144.*

**Minor in Education** A student who desires to satisfy the undergraduate requirements for the general secondary teaching credential will minor in education. He should include in his program a major in a subject or field of subjects usually taught in high school and a minor in the field of education. In order to conform to the usual university requirements, this minor should include Education 102A-102B (or Education 130, and Psychology 102), and Education 115A-115B. Consultation with the Dean of Education or the Dean of Liberal Arts is recommended.

**Majors** The specific requirements for each major are listed at the beginning of each departmental division among the description of courses. (See pages 67 to 144.) 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.

#### Limited Electives

A total of not more than 12 units of limited and vocational courses listed below will be counted toward the A.B. degree in Liberal Arts. Courses in education are included in this list principally because the major emphasis in the liberal arts program is non-professional and non-technical. Art L7, L14A, L65A, L65B; Economics L10A-L10B, L15A, L15B, L16A, L16B, L129, L163; Education, all courses except those listed as available for credit toward a minor (see Education minor above); Engineering L22, L23; English L1A, L1AA, L8; Journalism L53A, L53B, L153A, L153B; Library Science L10; Mathematics LA, LB, L5; Merchandising, all courses; Music L1A, L2A, L3A, L6A, L7A, L16A-B-C-D, L17A-B-C-D, L18A-B-C-D, L28A-L28B, L116A-B-C-D, L117A-B-C-D, L118A-B-C-D; Physical Education, all courses beyond the requirements specified in the curricular patterns except 30, 51, 170; Secretarial training, all courses. All courses which are offered specifically to students taking two-year completion courses leading to the Associate of Arts diploma are classified as limited electives. See definition of *Two-year students*, page 62.

**Professional and Preprofessional Courses.** See pages 49 to 61.



## Specific Upper Division Requirements for the Teacher Training Curricula

**Admission to the Teacher Training Curricula** Admission to the college does not imply that the student will be admitted to the teacher training curriculum. No student intending to enroll in the teacher training curriculum may enroll in an upper division course in education before being admitted to teacher training. Any exception to this rule must have the written approval of the Dean of Education. Students who have been in regular attendance at the college should make application for admission to the teacher training curricula during the first semester of their sophomore year. Students who have completed two 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. It will be advantageous for transfer students to present themselves for the necessary tests given during the orientation period preceding the enrollment in the college. 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 grade point average of 1.2 or better.

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

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

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

**Teaching Major Defined** A teaching major consists of a minimum of twenty-four units in a field other than education, at least twelve of which must be in the upper division. A *C* average in scholarship is required in all upper division courses in the field of the teaching major. A major for a special secondary credential varies from twenty-four to forty units as specified in the requirements for the various curricula. Teaching majors may be established in the following fields: English, foreign languages, general science, mathematics and social sciences (anthropology, economics, geography, history, political science) and in the special secondary credential fields of art, business education, music, physical education, and speech arts.

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

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

**Teaching Major in Social Science** Candidates for a teaching major in the field of the social sciences are required to include in their programs a year course in modern history and a concentration of twelve units, at least six of which are upper division, in one major subject (economics, geography, history, political science). See definition of teaching majors. The following courses may not be applied to the teaching major in the field of the social sciences: Economics 14A-14B, 18A-18B, 140, 160A-160B, 161, 162, 163, 164, 165; and all courses in merchandising.

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

**Teaching Minor in English** Candidates for the teaching minor in English must show credit in English 1B or 1C and three elective units of lower division work; and in six elective units in upper division English. This credit must include three units in American literature, taken either in lower division or upper division. Credit in journalism and speech arts may not be used to fulfill the requirements for the English minor. Recommended: English 2D.

**Teaching Minor in Music** Candidates for the teaching minor in music are required to take music aptitude tests at the time the minor is chosen and



to enroll in at least one music activity each semester. In special cases this requirement may be waived by petition to the Music Department.

Applicants for music minors must maintain a grade average of *C* in all music courses. To Music L1A and L7A, required for the elementary credential, the following twelve units are added for the music minor. In the lower division, with the proper regard for course sequences, six units may be chosen from the following courses: Music 1B-1C-1D; L2A; L3A; 4A-4B; L6A, 8A-8B; L16; L17; L18; Aesthetics 1A-1B. In the upper division, not less than six units may be chosen from the following courses: Music 130A-130B; 106A; L116; L117; L118; 121A; Aesthetics 102A-102B.

**Teaching Minor in Physical Education** Candidates for a teaching minor in physical education for women must show credit for Physical Education L1A, L1B, L1C, L9A, 51, L53, and one unit of sophomore activities and six units elected from Physical Education L157A, L157B, L161, L164A, L164B and 170 in the upper division.

Candidates for a teaching minor in physical education for men must show credit for Physical Education L1A, L1B, L1C, L1D, L53, and L62A in the lower division; and six units elected from Physical Education L156A, L156B, L161, L166, 170 or L190 in the upper division.

#### Major and Minor Credential Requirements

1. **The junior high school credential:** A teaching major and a teaching minor in subjects taught in a junior high school are required. The combination of a special secondary credential with the junior high school credential requires the completion of another teaching major than that required for a special secondary credential; the units required for this additional major may be included in the twelve additional units required for the second credential.
2. **The elementary school credential:** Two teaching minors are required.
3. **A special secondary credential:** The completion of the major in the special subject field (*see detailed outlines of curricular patterns for credentials*) and a teaching minor are required.
4. **Credit limitations:** A maximum of forty units of credit in one subject matter field may be applied toward the requirements for the A.B. degree.

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

**Political Science** The course in Political Science 101 or its equivalent is required of all graduates of the college or those securing a teaching credential through the college. The following courses are accepted as equivalents: Political Science 113, 152 or 175A-175B; History 171A-171B or 173A-173B.

**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.

**Teacher Training Curricula and Teaching Credentials** All Teacher Training Curricula leading to the Degree require a minimum of 18 semester units in education in addition to the general degree requirements previously listed.

A. The college offers curricula leading to the A.B. degree with authorization to recommend for 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. This credential will be issued only in combination with the elementary school credential, one of the special secondary credentials, or in combination with additional course requirements in the teaching major and in education as a preparation for graduate work for the general secondary credential. *Candidates for the latter type of combination should consult the Dean of Education regarding requirements.*
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.
7. **Special Secondary Credential in Speech Arts** authorizing the holder to teach public speaking, oral expression and dramatic art in the public schools of California.
8. **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.

**Combination 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 requirements. 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.



A combination of the elementary school credential with the junior high school credential may be secured by completing the requirements for the elementary school credential and the following additional requirements: (a) a teaching major; (b) Education 100B; (c) a minimum of three units of practice teaching in a junior high school or the equivalent; (d) a course in Education 115B, *The Principles and Functions of Education*; (e) a total minimum of 136 units.

**Limited Electives** Credit for limited and vocational courses will be allowed in fulfillment of the requirements for the A.B. degree whenever they are required in any credential pattern completed by the student. 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 L7, L14A; Economics L10A, L10B, L15A, L15B, L16A, L16B, L65A, L65B, L129, L163; Engineering L22, L23; English L1A, L1AA, L8; Journalism L53A, L53B, L153A, L153B; Library Science L10; Mathematics LA, LB, L5; Merchandising, all courses; Music L1A, L2A, L3A, L6A, L7A, L16A-B-C-D, L17A-B-C-D, L18A-B-C-D, L28A-L28B, L116A-B-C-D, L117A-B-C-D, L118A-B-C-D; Physical Education, all activity courses beyond the requirements specified in curricular patterns; Secretarial Training, all courses.

All courses which are offered specifically to students taking two-year completion courses leading to the Associate of Arts diploma are classified as limited electives.

## Curricula Leading to Teaching Credentials

*All candidates in teacher training curricula should observe carefully the requirements for admission to teacher training and be prepared to meet them at the end of the sophomore year. Students in other colleges who contemplate transferring to San Diego State College should arrange their programs so as to meet the requirements of their particular curriculum as early as possible. See college calendar for dates when the fundamentals test will be given and page 28 in this bulletin for requirements for admission to teacher training.*

### A.B. Degree With Elementary School Credential

First Semester—	FRESHMAN YEAR	Units
Art 6A, Structure	-----	2
Biology 10A, <sup>1</sup> Science of Life	-----	3
English L1A, <sup>2</sup> or L1AA, <sup>2</sup> or 1B, <sup>2</sup> or 1C, <sup>2</sup> Freshman English	-----	3
Geography 1, Elements (Natural Science)	-----	3
Physical Education, Freshman Activities	-----	1
Health Education 1 or 2	-----	2
Electives <sup>3, 4</sup>	-----	2

Second Semester—		Units
Biology 10B, <sup>1</sup> Science of Life	-----	3
English 1B, 1C or 2D	-----	3
Geography 2, Regions (Social Science)	-----	3
Music L1A, Music Reading and Ear-training	-----	2
Physical Education, Freshman Activities	-----	1
Electives <sup>3, 4</sup>	-----	5
		32

First Semester—	SOPHOMORE YEAR	Units
Art 6B, Structure	-----	2
English (selected from 1B, 1C, 2D, unless taken in freshman year, or from 52A, 52B, 56A, 56B)	-----	3
Physical Education, Sophomore Activities	-----	1

Second Semester—		Units
Physical Education L53—Physical Education in the Elementary School	-----	2 1/2

Either Semester—		Units
Art 61A, Elementary Crafts	-----	2
Art 61B, Elementary Crafts	-----	2
Music L7A, Music Materials for the Elementary Schools	-----	3
Psychology 1A, General	-----	3
Social Science 1A, Pol. Soc. and Econ. Problems	-----	3
Electives to meet requirements in Natural Science, Social Sciences, and minors <sup>3, 4, 5</sup>	-----	11-14
		32

<sup>1</sup> Possible substitutions for the requirement in Biology 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. Biology 1 and Physical Science 1—6 units.

<sup>2</sup> Depending on result of Subject A test.

<sup>3</sup> See Subject Matter Requirements in the Lower Division for total requirements in English, Natural Sciences, and Social Sciences.

<sup>4</sup> Unless minor is English, General Science or Social Sciences.

<sup>5</sup> If 6 units in minor taken in freshman year, none needed in sophomore year.



JUNIOR YEAR		Units
<b>First Semester—</b>		
Education 102A, The Psychological Foundations of Education-----	3	
Education L147, Education Practicum—Lower Levels-----	12	
<b>Second Semester—</b>		
Education 102B, The Psychological Foundations of Education-----	3	
Education L148, Education Practicum—Upper Levels-----	12	
	—	
	30	
SENIOR YEAR		
Education L116, Practice Teaching <sup>1</sup> -----	6	
<b>Either Semester—</b>		
Education 115 A, The Principles and Functions of Education-----	4	
Electives including two minors and political science requirement (for the year)-----	20	
	—	
	30	
SUMMARY		
Art 6A, 6B, 61A, 61B-----	8	
Education 102A-102B, 115A, L116, L147, L148-----	40	
English-----	6	
Health Education 1 or 2-----	2	
Music L1A, L7A-----	5	
*Natural Sciences (incl. Biology 10A-10B and Geog. 1)-----	14	
Physical Education L1A-B-C, L53-----	4	
Political Science 101-----	2	
Psychology 1A-----	3	
*Social Sciences (including Social Science 1A and Geography 2)-----	14	
Electives, including two teaching minors-----	26	
	—	
	124	

<sup>1</sup>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.

\* See page 24.

**A.B. degree with Junior High School credential** Note: The Junior High School credential will be issued only in combination with one of the other teaching credentials, or with the additional courses in Education and the major subject field required as preparation for graduate work and the general secondary credential. The latter combination requires the completion of a full academic major as specified by the department instead of the teaching major which may be used only when this credential is used in combination with another.

	Units
<b>First Semester—</b>	
Biology 10A, <sup>1</sup> Science of Life-----	3
English L1A or L1AA, <sup>2</sup> or 1B, <sup>2</sup> or 1C <sup>2</sup> -----	3
Geography 1, Elements (Natural Science)-----	3
Physical Education, Freshman Activities-----	1
Health Education 1 or 2-----	2
Electives, <sup>3</sup> includes major and minor <sup>4</sup> -----	4
<b>Second Semester—</b>	
Biology 10B, <sup>1</sup> Science of Life-----	3
English 1B, 1C, 1B, 1C or 2D-----	3
Geography 2, Regions (Social Science)-----	3
Physical Education, Freshman Activities-----	1
Electives, <sup>3</sup> including major and minor <sup>4</sup> -----	7
	—
	32

SOPHOMORE YEAR		
<b>First Semester—</b>		
English (selected from 1B, 1C, 2D, unless taken in freshman year or from 52A, 52B, 56A, 56B)-----	3	
Physical Education, Sophomore Activities-----	1	
Psychology 1A, General-----	3	
<b>Second Semester—</b>		
Physical Education, Sophomore Activities-----	1	
<b>Either Semester—</b>		
Social Science 1A, Pol., Soc. and Econ. Problems-----	3	
Electives, <sup>3</sup> including major and minor <sup>5</sup> (for the year)-----	22-25	
	—	
	32	

JUNIOR YEAR		
<b>First Semester—</b>		
Education L100A, <sup>6</sup> Methods and Materials of Instruction-----	3	
Education 102A, The Psychological Foundations of Education-----	3	
Political Science 101, American Institutions (or substitute)-----	2	

<sup>1</sup>Possible substitutions for the requirement in Biology 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. Biology 1 and Physical Science 1—6 units.

<sup>2</sup>Depending on result of Subject A test.

<sup>3</sup>See Subject Matter Requirements in the Lower Division for total requirements in English, Natural Sciences, and Social Sciences.

<sup>4</sup>Unless minor is English, General Science or Social Science.

<sup>5</sup>If 6 units in minor taken in freshman year, none needed in sophomore year.

<sup>6</sup>Not required if student is meeting requirements for elementary credential also.



Second Semester—		Units
Education L100B, Methods and Materials of Instruction	-----	3
Education 102B, The Psychological Foundations of Education	-----	3
Education L116, Practice Teaching	-----	3

Either Semester—		
Health Education 151	-----	2
Electives, including major and minor (for the year)	-----	11
	-----	30

#### SENIOR YEAR

First Semester—		
Education 115A, The Principles and Functions of Education	-----	4
Education L116, Practice Teaching	-----	3

Second Semester—		
Education 115B, The Principles and Functions of Education	-----	4

Either Semester—		
Electives, including major and minor <sup>1</sup> (for the year)	-----	19
	-----	30

#### SUMMARY

Education L100A-L100B, 102A-102B, 115A-115B, L116	-----	26
English	-----	6
Health Education 1 or 2; 151	-----	4
* Natural Sciences (including Biology 10A-10B and Geog. 1)	-----	14
Physical Education	-----	2
Political Science 101	-----	2
Psychology 1A	-----	3
* Social Sciences (including Social Science 1 and Geography 2)	-----	14
Electives, including teaching major and minor	-----	53

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<sup>1</sup> If 6 units in minor taken in junior year, none needed in senior year.  
\* See page 24.

**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	-----	2
Art 6A-6B, Structure	-----	4
Art 61A, 61B, Fine and Industrial Arts, Elementary Crafts	-----	4
† English	-----	6
Health Education 1 or 2	-----	2
† Natural Sciences	-----	8-14
Physical Education, Freshman and Sophomore Activities	-----	2
Psychology 1A, General	-----	3
† Social Sciences (including Social Science 1A)	-----	9-14
Electives, including additional art for major and courses for teaching minor <sup>1</sup>	-----	13-24
	-----	64

#### UPPER DIVISION

Aesthetics 150	-----	2
Art 106A-106B	-----	4
Art 112A-112B	-----	6
Art 152A (unless 52A was taken in lower division)	-----	0-2
Art 195	-----	2
Art 116A	-----	3
Electives in U. D. Art	-----	3-5
Education L100A-L100B, Methods and Materials of Instruction	-----	6
Education 102A-102B, The Psychological Foundations of Education	-----	6
Education 115B, The Principles and Functions of Education	-----	4
Education L116, Practice Teaching (4 units in special field)	-----	6
Education L119, Art in the Elementary School	-----	2
Political Science 101, American Institutions (or substitute)	-----	2
Electives, including additional art and teaching minor	-----	12-14
	-----	60

#### SUMMARY

Aesthetics 50 and 150	-----	4
Art major	-----	40 <sup>2</sup>
Education	-----	24
English	-----	6
Health Education 1 or 2	-----	2
* Natural Sciences	-----	14
Physical Education	-----	2
Political Science 101, American Institutions	-----	2
Psychology 1A	-----	3
* Social Sciences (including Social Science 1A)	-----	14
Electives, including teaching minor	-----	13

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<sup>1</sup> Unless minor is English, General Science, or Social Science.  
<sup>2</sup> Not required if student is meeting requirements for elementary credential also.  
<sup>3</sup> Maximum credit allowable in art.  
† See Subject Matter Requirements in the Lower Division.  
\* See page 24.



**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 L8, English in Business	-----	3
Geography 10A-10B, Economic Geography	-----	6
<sup>1</sup> Natural Science	-----	8
Physical Education, Freshmen and Sophomore Activities	-----	2
Health Education	-----	2
Speech Arts 1A, Fundamentals of Public Speaking	-----	3
Social Science 1A, Pol., Soc. and Econ. Problems	-----	3
Psychology 1A, General	-----	3
Secretarial Training 1A, Business Mathematics	-----	1
Secretarial Training L1A-L1B, Typewriting	-----	6
Secretarial Training L5A-L5B, Stenography	-----	10
Secretarial Training L3A, Office Methods and Appliances	-----	3
Electives	-----	2
		64
UPPER DIVISION		
Economics 18A-18B, Commercial Law	-----	6
Economics 100, or 102 or 111 or 123	-----	3
Economics 121, Business Administration	-----	3
Upper Division Accounting	-----	6
Education L100A-L100B, Methods and Materials of Ed.	-----	6
Education 102A-102B, The Psych. Foundations of Ed.	-----	6
Education 115B, The Principles and Functions of Ed.	-----	4
Education L116, Practice Teaching	-----	6
Special Methods Courses as prescribed by major department	-----	4
Political Science 101, American Institutions (or substitute)	-----	2
Minor	-----	6
Electives	-----	8
		60

<sup>1</sup> See page 24. Students deficient in high school natural science will have to make up such deficiency in college. See subject matter requirements in the Lower Division.

By electing Merchandising L25, Salesmanship; Merchandising L27, Advertising; Merchandising L26, Applied Salesmanship; Economics 123, Marketing; the Merchandising Subfield may be added to the above authorization.

#### General Business Subfield

LOWER DIVISION		Units
Economics 1A-1B, Principles	-----	6
Economics 2, Mathematics of Finance	-----	3
Economics 14A-14B, Accounting	-----	6
Economics 18A-18B, Commercial Law	-----	6
Geography 10A-10B	-----	6
Merchandising L26, Salesmanship	-----	2
Merchandising L27, Advertising	-----	3
<sup>1</sup> Natural Sciences	-----	8
Physical Education, Freshman and Sophomore Activities	-----	2
Psychology 1A, General	-----	3
Secretarial Training 1A, Business Mathematics	-----	1
Secretarial Training L1A-L1B, Typewriting	-----	6
English L8, English in Business	-----	3
Social Science 1A, Pol., Soc., and Econ. Problems	-----	3
Speech Arts 1A, Fundamentals of Public Speaking	-----	3
Electives, including Freshman English	-----	3
		64
UPPER DIVISION		
Economics 100, Modern Economic Thought, or a course in Consumer Economics or Economics 102, Social Control and Economic Planning	-----	3
Economics 121, Business Administration	-----	3
Economics 135, Money and Banking	-----	3
Economics 162	-----	3
Education 100A-100B, Methods and Materials of Instruction	-----	6
Education 102A-102B, The Psychological Foundations of Education	-----	6
Education 115B, The Principles and Functions of Education	-----	4
Education 116, Practice Teaching	-----	6
Special Methods Courses as prescribed by major department	-----	4
Economics 194	-----	3
Health Ed. 1 or 2	-----	2
Political Science 101, American Institutions (or substitute)	-----	2
Electives (including a minimum of 5 units in the upper division, 3 units of which must be in commerce)	-----	15
		60

<sup>1</sup> See page 24. Students deficient in high school natural science will have to make up such deficiency in college. See subject matter requirements in the Lower Division.



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

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

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

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

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

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

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

FRESHMAN YEAR		Units
First Semester—		
English L1A, <sup>1</sup> 1B, <sup>1</sup> or 1C <sup>1</sup>	-----	3
Health Education 1 or 2	-----	2
History 4A or 8A	-----	3
Aesthetics 1A	-----	2
Music 1B	-----	2
Social Science 1A	-----	3
Music L18	-----	1
Physical Education	-----	$\frac{1}{2}$
		<hr/> 16 $\frac{1}{2}$
Second Semester—		
<sup>2</sup> English	-----	3
Geography 1, Elements (Natural Science)	-----	3
History 4B or 8B	-----	3
Aesthetics 1B	-----	2
Music 1C	-----	2
Music L3A	-----	1
Music L18	-----	1
Physical Education	-----	$\frac{1}{2}$
		<hr/> 15 $\frac{1}{2}$

<sup>1</sup> Depending on result of Subject A test.  
<sup>2</sup> See Lower Division requirements on page 23.

SOPHOMORE YEAR		Units
First Semester—		
Music 4A	-----	3
Music 1D	-----	2
Music L18	-----	1
*Natural Science	-----	6
Geography 2, Regions	-----	3
Music L2A	-----	1
Physical Education	-----	$\frac{1}{2}$
		<hr/> 16 $\frac{1}{2}$

Second Semester—		
Music 4B	-----	3
Music L6A	-----	1
Music L17	-----	1
Psychology 1A	-----	3
*Natural Science	-----	5
Music L18	-----	1
Physical Education	-----	$\frac{1}{2}$
		<hr/> 14 $\frac{1}{2}$

JUNIOR YEAR		Units
First Semester—		
Music 105A	-----	3
Education L117	-----	2
Education L145	-----	2
Education 102A	-----	3
Education L100A	-----	3
Upper Division Minor	-----	3
		<hr/> 16

Second Semester—		
Political Science 101	-----	2
Music 105B	-----	3
Music L117	-----	1
Education L100B	-----	3
Education 102B	-----	3
Upper Division Minor	-----	3
		<hr/> 15

SENIOR YEAR		Units
First Semester—		
Music 119	-----	1
Music 107A	-----	2
Music L117	-----	1
Aesthetics 102A	-----	2
Education L116, Practice Teaching	-----	6
**Music Activities	-----	2
		<hr/> 14

\* See Subject Matter Requirement in the Lower Division.  
 \*\* NOTE.—A maximum of 3 units is credited toward the special Secondary credential in Music for music activities carried on throughout the four year course. These activities: band, choir, glee clubs, chorus and orchestra are an integral part of the work of the course and each music major is expected to participate in at least two of these each semester unless excused by the Music Department.



Second Semester—		Units
Music 121	-----	2
Music 106	-----	2
Music 120	-----	1
Music L117	-----	1
Aesthetics 102B	-----	2
Education 115B	-----	4
Education L116, Practice Teaching	-----	3
*Music Activities	-----	1
	-----	16
SUMMARY		
Health Education	-----	2
Aesthetics	-----	8
Education	-----	29
English	-----	6
Upper Division Minor	-----	6
Natural Science	-----	14
Music	-----	40
Social Science	-----	14
Psychology	-----	3
Physical Education	-----	2
	-----	124

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

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
Biology 10A-10B, Science of Life (unless taken as a year course in high school with at least a grade of B)		
or		
Zoology 1A, General	-----	4-6
†English	-----	6
Health Education 1	-----	2
†Natural Sciences	-----	5 or 7
Physical Education:		
L1A-1B, L1C-1D	-----	2
L6A, Tennis	-----	1½
30, Emergencies	-----	1
L53, Physical Education in the Elementary School	-----	2½
L62A, L62B, Gymnastic Activities	-----	4
L66, Playing Rules of Modern Games	-----	1
L72, Principles	-----	2
Sports and Athletics¹	-----	2
Psychology 1A, General	-----	3
Red Cross Swimming Test	-----	1½
†Social Sciences, including Social Science 1A, Political, Social and Economic Problems	-----	14
Speech Arts 1A, Fundamentals of Public Speaking	-----	3
Zoology 20, Anatomy and Physiology (or Zoology 108)	-----	3
Electives, including courses to meet minor requirements²	-----	6½
	-----	64

### UPPER DIVISION

Education L100A-L100B, Methods and Materials of Instruction	-----	6
Education 102A-102B, The Psychological Foundations of Education	-----	6
Education 115B, The Principles and Functions of Education	-----	4
Education L116, Practice Teaching	-----	6
Health Education 151	-----	2

Physical Education: Choose four out of the seven starred courses:

L154, Organ. and Admin. of Physical Education	-----	3
*L155, Applied Anatomy	-----	2
L156A-156B, Sports Methods	-----	4
*161, Folk Dancing	-----	2
*L166, Technique of Officiating	-----	2
*L168, Physiology of Exercise	-----	2
L169, Technique of Teaching Activities	-----	2
*170, Recreational Leadership	-----	2
*L180, Theory of Coaching Football	-----	2
*L190, Individual Program Adaptation	-----	3
Sports and Athletics¹	-----	2

¹ Men majoring in Physical Education must actively participate in at least three sports each year.

² Unless minor is English, General Science, or Social Science.

† See Subject Matter Requirements in the Lower Division.



MEN—Continued

UPPER DIVISION—Continued

Physical Education—Continued	Units
Zoology 114A, Genetics	2
Political Science 101, American Institutions (or substitute)	2
Electives	14
	60
SUMMARY	
Education	22
English	6
Health Education	4
Speech Arts 1A	3
*Natural Science (including Biology 10A-10B or substitute and Zoology 20)	14
Physical Education major	33
Political Science 101, American Institutions	2
Psychology	3
**Social Sciences (including Social Science 1A)	14
Zoology 114A	2
Electives, including teaching minor	21
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\* See page 24.

\*\* See page 24.

WOMEN

LOWER DIVISION

	Units
Aesthetics 1A, Survey of Music	2
Biology 10A-10B, Science of Life (unless taken as a year course in high school with at least a grade of B)	6
*English	6
Health Education 2	2
*Natural Sciences	5-7
Physical Education:	
L1A, Fundamental Skills	1½
L1B, Folk Dancing	1½
L1C, Rhythmic Skills	1½
L4A, Social Dancing	1½
L5B, Archery	1½
L6A, Badminton	1½
L9A, Stunts and Tumbling	1½
L10C, Life Saving	1½
L11B, Tennis	1½
51, Safety Education	1
L53, Physical Education in the Elementary School	2½
Sports and Dancing <sup>2</sup>	1½
Psychology 1A, General	3
*Social Sciences, including Soc. Science 1A	12
Speech Arts	3
Zoology 20	3
Electives, including teaching minor <sup>1</sup>	13½
	64

UPPER DIVISION

Education L100A-L100B, Methods and Materials of Instruction	6
Education 102A-102B, The Psychological Foundations of Education	6
Education 115B, The Principles and Functions of Education	4
Education L116, Practice Teaching	6
Health Education 151	2
Physical Education:	
L153, Administration of Secondary Physical Education	2
L155, Applied Anatomy	2
L157A-L157B, Sports Methods	4
L160, Principles of Teaching Gymnastics	2
L161, Folk Dancing	2
L164A-L164B, Advanced Dancing	4
L168, Physiology of Exercise	2
L169, Technique of Teaching Activities	3
170, Recreational Leadership	2
L173, Principles of Physical Education	2
L177, Individual Program Adaptations	2
L185, Techniques of Individual Sports	1

<sup>1</sup> Unless minor subject is English, General Science, or Social Science.

<sup>2</sup> Chosen from L2A, L2B, L3A, L3B, L3C, L3D, L4B, L5A, L6A, L6B, L7A, L8A, L8B, L8C, L8D, L10A, L10B, or L11A.

\* See Subject Matter Requirements in the Lower Division.



# WOMEN—Continued

## UPPER DIVISION—Continued

	Units
Physical Education—Continued	
Political Science 101, American Institutions (or substitute)-----	2
Electives, including minor-----	6
	60
SUMMARY	
Aesthetics -----	2
Education -----	22
English -----	6
Health Education -----	4
*Natural Sciences (including Biology 10A-10B or substitute, and Zoology 20) -----	14
Physical Education major-----	37½
Psychology -----	3
*Social Sciences (including Social Science 1A and Political Science 101) -----	14
Speech Arts -----	3
Electives, including a teaching minor-----	18½
	124

**Special Credential in Correction of Speech Defects** The credential is available to graduate students who have successfully completed two years of teaching in any field. Specialized courses are required for certification plus a total of 100 hours of clinical experience in the treatment of articulatory and nervous disorders of speech.

\* See page 24.

## 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.

### Residence Requirements

Twenty-four semester hours of work completed in the State Colleges of California will be accepted as satisfying residence requirements, provided that at least twelve units of this work has been completed at the San Diego State College subsequent to June 1, 1934, and provided that not more than six units of the remaining twelve may be taken in extension courses.

### 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 the 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, 1947. 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 deposit must accompany each application. Applications should be filed well in advance of the time of anticipated enrollment.

## PROFESSIONAL AND PREPROFESSIONAL CURRICULA

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

The degree curricula in liberal arts may be modified to include the course outlines which follow. For a complete statement of the requirements for the junior certificate and the degree see page 23 and following pages.

### Prelegal Curriculum

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

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

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



Following is a recommended arrangement of courses:

FRESHMAN YEAR		Units	
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education 1 or 2	-----	2	--
*Foreign Languages (if needed to complete requirement)	-----	3-5	3-5
*Natural Science	-----	3-5	3-5
*Speech Arts 1A-1B or English elective	-----	3	3
Economics 14A-14B	-----	3	3
Psychology 1A	-----	--	3
Electives <sup>1</sup>	-----	0-4	0-3
		15 $\frac{1}{2}$	15 $\frac{1}{2}$

SOPHOMORE YEAR			
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
*Additional Natural Science (if needed to meet requirement)	-----	3	--
Economics 1A-1B	-----	3	3
Philosophy 5A-5B or Mathematics 3A-3B	-----	3	3
Political Science 1A-1B or 71A-71B	-----	3	3
Electives <sup>1</sup>	-----	3	6
		15 $\frac{1}{2}$	15 $\frac{1}{2}$

JUNIOR YEAR			
Economics 121	-----	3	--
Economics 133	-----	3	--
Economics 140	-----	--	3
Economics elective	-----	--	3
History 151A-151B or 175A-175B	-----	3	3
Political Science 111 and 113 or 143A-143B	-----	3	3
Electives <sup>2</sup>	-----	3	3
		15	15

SENIOR YEAR			
Economics 100	-----	3	--
Economics 102 or 111	-----	--	3
Economics 199A-199B	-----	1	2
Economics 135 or 131 or 150	-----	3	--
History 111A-111B or 121A-121B	-----	3	3
Political Science 175A-175B	-----	3	3
Electives <sup>2</sup>	-----	3	3
		16	14

\* See lower division requirements, page 24.

<sup>1</sup> Recommended elective: History, 6 units, taken in the freshman or sophomore year.

<sup>2</sup> Recommended electives: English, philosophy, psychology, sociology.

## Preoptometry Curriculum

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory,  $\frac{1}{2}$ -unit; trigonometry,  $\frac{1}{2}$ -unit; physics, 1 unit; chemistry, 1 unit; foreign language, 3 units.

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

FRESHMAN YEAR		Units	
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education 1 or 2	-----	2	--
*Foreign Language (if needed to complete requirements)	-----	3	3
Physics 2A-2B	-----	3	3
Physics 3A-3B	-----	1	1
Speech Arts 1A-1B	-----	3	3
*Social Science	-----	3	3
Electives	-----	--	3
		15 $\frac{1}{2}$	16 $\frac{1}{2}$

SOPHOMORE YEAR			
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Chemistry 1A-1B	-----	5	5
Mathematics 3A-3B	-----	3	3
Psychology 1A	-----	--	3
Social Science 1A	-----	3	--
Physiology 1A and 1C <sup>1</sup>	-----	--	5
Electives	-----	4	--
		15 $\frac{1}{2}$	16 $\frac{1}{2}$

## Premedical Curriculum

The entrance requirements of medical colleges ordinarily range from three to four years of premedical work. The lower division requirements of the Liberal Arts curricula include the general requirements of standard medical colleges and should therefore be met in full whether the curriculum extends over a period of three or of four years. However, a student who has definitely decided not to become a candidate for a degree in San Diego State College may substitute the lower division requirements of the institution to which he expects to transfer in place of the following courses marked with an asterisk. All plans for premedical work should include an arrangement of courses to meet the requirements of the medical college which the student expects to enter.

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.

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

\* See lower division requirements, page 24.

<sup>1</sup> If not available, Zoology 20 may be substituted.



Following is a recommended arrangement of courses:

FRESHMAN YEAR		Units	SOPHOMORE YEAR		Units
Physical Education	-----	1 1/2	Physical Education	-----	1 1/2
Health Education	-----	2	Zoology 1A-1B	-----	4 4
Chemistry 1A-1B	-----	5 5	Chemistry 7-8	-----	3 3
*English Composition	-----	3 3	**Social Science Year	-----	3 3
**French or German (if	-----		Course	-----	3 3
needed to meet require-	-----		**Psychology 1A	-----	3
ment) <sup>1</sup>	-----	3-5 3-5	**Social Science 1A	-----	3
**Electives	-----	0-2 2-5	**Additional Year Course <sup>2</sup>	-----	3 3
		15 1/2 16 1/2			16 1/2 16 1/2
JUNIOR YEAR		Units	SENIOR YEAR		Units
Political Science 101	-----	2	Upper division require-	-----	
Physics 2A-2B	-----	3 3	ments and electives for	-----	
Physics 3A-3B	-----	1 1	the major, the minors	-----	
Chemistry 105	-----	3	and the degree (see	-----	
Zoology 100	-----	3	page 26)	-----	15 15
Zoology 100D	-----	1			15 15
Zoology 106	-----	4			
Electives	-----	4 5			
		15 15			

### Prenursing Curriculum

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

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

\* Chosen from English 1B or 1C and 2A, 2B, 2C, 2D, 2E, 2F.

\*\* See lower division requirements, page 24.

<sup>1</sup> German if the major is Chemistry.

<sup>2</sup> Mathematics 3A-3B or satisfactory substitute if the major is Chemistry.

The following is a recommended arrangement of courses:

FRESHMAN YEAR		Units	SOPHOMORE YEAR		Units
Physical Education	-----	1 1/2	Physical Education	-----	1 1/2
Health Education	-----	2	Psychology 1A-1B	-----	3 3
Chemistry 2A-2B	-----	3 3	Economics 1A-1B	-----	3 3
Bacteriology 1	-----	4	**Social Science 1A	-----	3
*English Composition	-----	3 3	**Additional Year Course	-----	3 3
**French or German (if	-----		Physiology 1A, 1C	-----	5
needed to complete re-	-----		Zoology 108	-----	3
quirement)	-----	3-5 3-5	Electives	-----	3
**Electives	-----	3-5 0-2			15 1/2 17 1/2
		16 1/2 15 1/2			

### Predental Curriculum

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

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; foreign language, 3 or 4 units.

The following arrangement of courses is recommended:

FRESHMAN YEAR		Units	SOPHOMORE YEAR		Units
Physical Education	-----	1 1/2	Physical Education	-----	1 1/2
Health Education	-----	2	Chemistry 7-8	-----	3 3
Chemistry 1A-1B	-----	5	Physics 2A-2B or Zoology	-----	3-4 3-4
*English 1B and 2A	-----		1A-1B	-----	3-4 3-4
or 2B, 2C, 2D, 2E,	-----		**Social Science Year	-----	3 3
2F	-----	3 3	Course	-----	3 3
**Foreign language	-----		**Psychology 1A	-----	3
(if needed to com-	-----		**Social Science 1A	-----	3
plete requirement)	-----	3 3	**Additional Year Course	-----	3 3
**Electives	-----	3 4			15 1/2 16 1/2
		16 1/2 15 1/2			

### Preagricultural Curricula

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

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

\* Chosen from English 1B or 1C and 2A, 2B, 2C, 2D, 2E, 2F.

\*\* See lower division requirements for junior standing (junior certificate) page 23 and ff.

<sup>1</sup> Offered in the summer session.



The following arrangement of courses is recommended:

### Curriculum in Plant Science

FRESHMAN YEAR		Units
Physical Education	-----	$\frac{1}{2}$ $\frac{1}{2}$
Health Education	-----	2 --
Chemistry 1A-1B <sup>1</sup>	-----	5 5
Botany 2A-2B	-----	4 4
Physics 2A-2B	-----	3 3
Electives <sup>2</sup>	-----	2 3
		16 $\frac{1}{2}$ 15 $\frac{1}{2}$
SOPHOMORE YEAR		
Physical Education	-----	$\frac{1}{2}$ $\frac{1}{2}$
Economics 1A-1B	-----	3 3
Chemistry 7-8	-----	3 3
Geology 1A or 2A	-----	3 --
Bacteriology 1	-----	-- 4
Zoology 1A	-----	-- 4
Botany 107	-----	4 --
Electives <sup>2</sup>	-----	-- 4
	-----	3 1
		16 $\frac{1}{2}$ 15 $\frac{1}{2}$

### Curriculum in Animal Science

FRESHMAN YEAR		Units
Physical Education	-----	$\frac{1}{2}$ $\frac{1}{2}$
Health Education	-----	2 --
Chemistry 1A-1B <sup>1</sup>	-----	5 5
Zoology 1A-1B	-----	4 4
Physics 2A-2B	-----	3 3
Geology 2B	-----	3 3
Electives <sup>2</sup>	-----	2 --
		16 $\frac{1}{2}$ 15 $\frac{1}{2}$
SOPHOMORE YEAR		
Physical Education	-----	$\frac{1}{2}$ $\frac{1}{2}$
Economics 1A-1B	-----	3 3
Chemistry 7-8	-----	3 3
Bacteriology 1	-----	3 4
Botany 1A	-----	-- 4
Zoology 100	-----	4 --
Zoology 20 or 108	-----	-- 3
Electives <sup>2</sup>	-----	-- 3
	-----	5 --
		15 $\frac{1}{2}$ 16 $\frac{1}{2}$

<sup>1</sup> See prerequisites, page 78.

<sup>2</sup> Foreign language if not taken in high school.

### Curriculum in Forestry

FRESHMAN YEAR		Units
Physical Education	-----	$\frac{1}{2}$ $\frac{1}{2}$
Chemistry 1A-1B <sup>1</sup>	-----	5 5
Botany 1A-1B	-----	4 4
*English 1B and Composition	-----	3 3
Mathematics 3A-3B	-----	3 3
		15 $\frac{1}{2}$ 15 $\frac{1}{2}$
SOPHOMORE YEAR		
Physical Education	-----	$\frac{1}{2}$ $\frac{1}{2}$
Physics 2A-2B, 3A-3B	-----	4 4
Engineering 1A-1B	-----	3 3
Economics 1A-1B	-----	3 3
Geology 2A	-----	3 --
Chemistry 7	-----	3 --
Botany 107	-----	-- 4
Electives <sup>2</sup>	-----	-- 2
		16 $\frac{1}{2}$ 16 $\frac{1}{2}$

### Preengineering Curricula

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory,  $\frac{1}{2}$  unit; solid geometry,  $\frac{1}{2}$  unit; trigonometry,  $\frac{1}{2}$  unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit. Students should ascertain the requirements of the engineering college they expect to enter.

### Mechanical, Electrical, Civil and Mining Engineering

FRESHMAN YEAR		Units
Physical Education	-----	$\frac{1}{2}$ $\frac{1}{2}$
Health Education 1	-----	-- 2
Mathematics 3A-3B	-----	3 3
Chemistry 1A-1B	-----	5 5
Physics 1A-1B	-----	3 3
†Geology 1A or elective	-----	4 --
Electives	-----	-- 3
		15 $\frac{1}{2}$ 16 $\frac{1}{2}$

### Mechanical and Electrical Engineering

SOPHOMORE YEAR		Units
Engineering 1A	-----	3 --
Engineering 21	-----	3 --
Engineering 122	-----	-- 3
Engineering 123	-----	-- 2
Mathematics 4A-4B	-----	3 3
Mathematics 118 or 119	-----	3 3
Physical Education	-----	$\frac{1}{2}$ $\frac{1}{2}$
Physics 1C-1D	-----	3 3
Electives	-----	3 2
		15 $\frac{1}{2}$ 16 $\frac{1}{2}$

\* Chosen from English 1B or 1C and 2A, 2B, 2C, 2D, 2E, 2F.

<sup>1</sup> See prerequisites, page 78.

<sup>2</sup> Foreign language if not taken in high school.

† Geology 1A is required in the civil engineering curriculum.



## Civil Engineering

SOPHOMORE YEAR		Units
Astronomy 3	---	2
Engineering 1A-1B	3	3
Engineering 21	3	---
Engineering L23	---	2
Engineering 25	---	3
Engineering 28	3	---
Mathematics 4A-4B	3	3
Physical Education	1/2	1/2
Physics 1C-1D	3	3
		15 1/2 16 1/2

## Curriculum in Industrial Physics

This curriculum is designed for students planning to enter industrial positions including certain phases of manufacturing, public utilities and various civil service positions, or those planning on graduate work in industrial physics or related fields.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, 1/2 unit; solid geometry, 1/2 unit; trigonometry, 1/2 unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit; French or German, 3 units.

FRESHMAN YEAR		Units	SOPHOMORE YEAR		Units
Physical Education	1/2	1/2	Physical Education	1/2	1/2
Health Education 1	2	---	Mathematics 4A-4B	3	3
Mathematics 3A-3B	3	3	Physics 1C-1D	3	3
Chemistry 1A-1B	5	5	Any combination of: En-		
Physics 1A-1B	3	3	gineering 1B, 21, L22	3	3
*English	3	3	Engineering L23	---	2
Electives	---	2	*Foreign Language	3-5	3-5
			*Social Science 1A	3	---
			Electives	---	0-2
					15 1/2-17 1/2 16 1/2

JUNIOR YEAR		Units	SENIOR YEAR		Units
Physics	6	6	Chemistry 110A-110B <sup>1</sup>	3	3
Engineering 128 <sup>1</sup>	3	---	Upper division require-		
Engineering 125 <sup>1</sup>	---	3	ments and electives for		
*Economics 1A-1B	3	3	the major and the de-		
*Psychology 1A	3	---	gree (see page 26)	12	12
Political Science 101	2	---			
Electives	---	3			
					15 15
					17 15

<sup>1</sup> Lower division requirements must be met in full. See page 23. Students who, during the first two years, chose the regular engineering curriculum will find that certain lower division requirements will have to be deferred until the junior year. All lower division requirements must be completed before senior standing is granted.

<sup>2</sup> Engineering and chemistry should be used to satisfy requirements for the minors. In approved cases mathematics may be substituted for the chemistry minor.

## Curriculum in Industrial Chemistry

This curriculum is designed for those planning to enter the field of industrial chemistry in the production, sales, or management of the industry.

The following subjects should be completed in high school: elementary algebra, 1 unit (2 semester credits); plane geometry, 1 unit; algebraic theory, 1/2 unit; solid geometry, 1/2 unit; trigonometry, 1/2 unit; physics or chemistry, 1 unit; mechanical drawing, 1 unit; French or German, 3 units.

Following is the recommended arrangement of courses:

FRESHMAN YEAR		Units	SOPHOMORE YEAR		Units
Chemistry 1A-1B	5	5	Chemistry 7-8	3	3
Physics 1A-1B	3	3	Physics 1C-1D	3	3
Mathematics 3A-3B	3	3	Mathematics 4A-4B	3	3
*English	3	3	*Foreign Language	3-5	3-5
Health Education 1	2	---	Engineering		
*Social Science 1A	---	3	L22, L23	3	3
Physical Education	1/2	1/2	Physical Ed.	1/2	1/2
					15 1/2-17 1/2 15 1/2-17 1/2
					16 1/2 17 1/2

JUNIOR YEAR		Units	SENIOR YEAR		Units
Chemistry 105A-B	3	3	Chemistry 110A-110B	3	3
Chemistry 112	2	---	Chemistry 111A-111B	2	2
Chemistry 144	---	3	Chemistry 127	2	---
Engineering 125, 128	3	3	Chemistry Elective	0	1
*Economics 1A-1B	3	3	Physics (upper division)	3	3
Political Science 101	2	---	Electives	6	7
*Psychology 1A	---	3			
Electives	3	2			
					16 16
					16 17

## Public Service Curricula—Public Administration

As the vocational demand for students of public administration is comparatively limited the student of public administration will do well to prepare himself also for a related field of work for which there is not only a cultural but also a vocational demand. The candidate for a public administrative position who is equipped for a career in a professional, scientific or technical field that is common to both public and private enterprise has a distinct advantage. The special courses in public administration listed in the following curriculum are supplementary courses designed for exploration and orientation. The curriculum as a whole provides for a major in economics, outlines a general preparation for the public service in social science fields and furnishes a basis for more highly specialized graduate courses in the field of public administration.

<sup>1</sup> Lower division requirements must be met in full. See page 23. Students who, during the first two years, chose the regular engineering curriculum will find that certain lower division requirements will have to be deferred until the junior year. All lower division requirements must be completed before senior standing is granted.



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

The following arrangement of courses is recommended:

FRESHMAN YEAR	Units	SOPHOMORE YEAR	Units
Physical Education -----	$\frac{1}{2}$ $\frac{1}{2}$	Physical Education -----	$\frac{1}{2}$ $\frac{1}{2}$
Health Education 1 or 2 ---	2 --	*Additional Natural Science (if needed to meet requirements) -----	3 --
*English -----	3 3	*Additional year course ---	3 3
*Foreign Language (if needed to complete requirements) -----	3-5 3-5	Economics 1A-1B -----	3 3
*Natural Science -----	3-5 3-5	Political Science 1A-1B or 71A-71B -----	3 3
Economics 14A-14B -----	3 3	Psychology 1A -----	3
Electives -----	0-5 0-3	Electives -----	4 3
	16 $\frac{1}{2}$ 15 $\frac{1}{2}$		16 $\frac{1}{2}$ 15 $\frac{1}{2}$
JUNIOR YEAR	Units	SENIOR YEAR	Units
Economics 100 -----	3 --	Economics 150 -----	3
Economics 140 -----	-- 3	Economics 199A-199B ---	1 2
Economics 102 -----	-- 3	Economics electives -----	3 3
Economics 131 -----	3 --	Political Science 143A-143B -----	3 3
Political Science 175A-175B -----	3 3	Electives <sup>1</sup> -----	9 3
Electives <sup>1</sup> -----	6 6		16 14
	15 15		

### Public Service Curricula—Clerical and Fiscal Service

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

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

\* See lower division requirements, page 23.

<sup>1</sup> See minor requirements, page 26. Students who desire to prepare for a graduate major in political science should elect Political Science 111 and 113 and may satisfy requirements for a major in economics by substituting Political Science 143A-143B for elective courses in economics.

FRESHMAN YEAR	Units	SOPHOMORE YEAR	Units
Physical Education -----	$\frac{1}{2}$ $\frac{1}{2}$	Physical Education -----	$\frac{1}{2}$ $\frac{1}{2}$
Health Education 1 or 2 ---	2 --	*Additional Natural Science (if needed to meet requirements) -----	3 --
*English Composition ---	3 3	Economics 1A-1B -----	3 3
*Foreign Language (if needed to complete requirement of 10 units) -----	0-5 0-5	Economics 14A-14B -----	3 3
*Natural Science -----	3-5 3-5	Political Science 1A-1B or 71A-71B -----	3 3
Mathematics D and Economics 2 -----	3 3	Psychology 1A -----	3
Electives <sup>1</sup> -----	0-5 0-6	Electives <sup>1</sup> -----	4 3
	16 $\frac{1}{2}$ 15 $\frac{1}{2}$		16 $\frac{1}{2}$ 15 $\frac{1}{2}$
JUNIOR YEAR	Units	SENIOR YEAR	Units
Economics 121 -----	3 --	Economics 161 -----	3 --
Economics 131 -----	3 --	Economics 167 -----	3
Economics 140 -----	-- 3	Economics 199A-199B ---	1 2
Economics 160A-160B ---	3 3	Political Science 143A-143B -----	3 3
Political Science 101 -----	2 --	Electives <sup>2</sup> -----	9 6
Electives <sup>2</sup> -----	4 9		16 14
	15 15		

### Public Service Curricula—Social Work

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

The lower division requirements of the Liberal Arts curricula include the general requirements of recognized professional schools of social work and should therefore ordinarily be met in full. However, a student who has definitely decided not to become a candidate for a degree in San Diego State College may substitute the lower division requirements of the institution to which he expects to transfer wherever the requirements differ.

A student who pursues a four-year curriculum in San Diego State College should major in Social Science and minor in Psychology and in a second field of his own choice.

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory,  $\frac{1}{2}$  unit;

\* See lower division requirements, page 23 and ff.

<sup>1</sup> Recommended electives: Economics 18A-18B and Secretarial Training 3A.

<sup>2</sup> See minor requirements, page 26.



trigonometry,  $\frac{1}{2}$  unit; foreign language, 3 units in one language or 2 units in each of two languages.

Following is a recommended arrangement of courses:

FRESHMAN YEAR	Units	SOPHOMORE YEAR	Units
Physical Education-----	$\frac{1}{2}$ $\frac{1}{2}$	Physical Education-----	$\frac{1}{2}$ $\frac{1}{2}$
Health Education 1 or 2-----	2 --	Economics 1A-1B-----	3 3
Biology 10A-10B-----	3 3	Political Science 1A-1B or 71A-71B-----	3 3
*Foreign Language (if needed to complete requirement)-----	3-5 3-5	*Additional Year Course-----	3 3
Psychology 1A-----	3	*Additional Natural Science (if needed to meet requirement)-----	3 --
*Speech Arts 1A-1B or *English elective-----	3 3	Sociology 50A-----	3 --
Electives <sup>1</sup> -----	2-5 2-4	Sociology 50B <sup>2</sup> -----	-- 3
	16 $\frac{1}{2}$ 16 $\frac{1}{2}$	Electives <sup>1</sup> -----	-- 3
			15 $\frac{1}{2}$ 15 $\frac{1}{2}$
JUNIOR YEAR	Units	SENIOR YEAR	Units
Economics 102 or 131 or 150-----	-- 3	Economics 140-----	3 --
Sociology 105-----	3 --	Sociology 197-----	3 --
Sociology 109-----	-- 3	Sociology 199A-199B-----	1 2
Psychology 118-----	3 --	Psychology 145-----	-- 3
Psychology 150-----	-- 3	Political Science 143A-143B or restricted elective-----	3 3
Zoology 114A-----	2 --	Electives <sup>3</sup> -----	5 7
Political Science 101-----	2 --		15 15
Electives <sup>2</sup> -----	5 6		
	15 15		

### Public Service Curricula—Foreign Service

A curriculum of training for the foreign service in consular, vice-consular, and other offices is available on request. This curriculum outlines preparation for competitive examinations required for entrance to the Foreign Officer's Training School at Washington, D. C.

### Curriculum in 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. Introductory training in the principles and practices of journalistic writing are offered only after a good foundation in correct speaking and writing of English has been laid.

- <sup>1</sup> See lower division requirements, page 23 and ff.  
<sup>2</sup> Recommended electives: Economics 14A-14B, 6 units; Psychology 4A, 2 units.  
<sup>3</sup> Sociology 100 may be substituted in the junior year.  
<sup>4</sup> Recommended electives: Anthropology 152, 3 units; Economics 102, 131, 150, 3 units each; History 171A-171B, 6 units; Sociology 106, 108, 198, 3 units each; Sociology E112, Social Case Work, 2 units (extension division); E113, Administration of Public Welfare agencies, 2 units (extension division).  
 See minor requirements and U. S. Constitution requirement, page 26.

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

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; foreign language, 3 units in one language or 2 units in each of two languages; English, 4 units; natural science, 1 or 2 units in the junior or senior year.

Following is a recommended arrangement of courses:

FRESHMAN YEAR	Units	SOPHOMORE YEAR	Units
Physical Education-----	$\frac{1}{2}$ $\frac{1}{2}$	Physical Education-----	$\frac{1}{2}$ $\frac{1}{2}$
Health Education-----	2 --	Economics 1A-1B or Political Science 1A-1B or 71A-71B-----	3 3
*English-----	3 3	Journalism 51A-51B-----	3 3
History 4A-4B or 8A-8B or Political Science 1A-1B or 71A-71B-----	3 3	*Philosophy 5A-5B (if needed to complete additional year course requirement)-----	3 3
*Foreign Language (if needed to complete requirement)-----	0-5 0-5	*Natural Science-----	3 3
Journalism 10A-10B-----	1 1	Psychology 1A-----	3 --
Electives <sup>1</sup> -----	0-5 0-6	Social Science 1-----	-- 3
	16 $\frac{1}{2}$ 15 $\frac{1}{2}$	Electives <sup>2</sup> -----	1 --
			16 $\frac{1}{2}$ 15 $\frac{1}{2}$
JUNIOR YEAR	Units	SENIOR YEAR	Units
Social Science Major <sup>3</sup> -----	6 6	Social Science Major <sup>3</sup> -----	6 6
English Minor <sup>4</sup> -----	3 3	Second Minor <sup>4</sup> -----	3 3
Journalism 151A-151B-----	1 1	Journalism <sup>5</sup> -----	2 2
Journalism <sup>6</sup> -----	2 2	Journalism 199-----	-- 2
Electives-----	3 3	Political Science 101 (if not included in major)-----	2 --
	15 15	Electives-----	2 2
			15 15

- <sup>1</sup> See lower division requirements for junior standing, page 23 and ff.  
<sup>2</sup> Recommended electives: Aesthetics 1A-1B, 4 units; Aesthetics 5, 2 units; Anthropology 50A-50B, 6 units; Geography 2, 3 units; Sociology 50A-50B, 6 units; Secretarial Training L2A, or equivalent, no credit; Speech Arts 1A, 3 units.  
<sup>3</sup> Recommended electives: Journalism L53A-L53B, 2 or more units.  
<sup>4</sup> The Social Science major must include a concentration of 12 upper division units in one of the following fields and 6 units in each of two others: Anthropology, Economics, Geography, History, Political Science, Sociology.  
<sup>5</sup> See minor requirements, page 26.  
<sup>6</sup> Not more than six units of Journalism L53A-L53B and L153A-L153B may be counted toward the A.B. degree and not more than four units of Journalism 153C-153D may be counted.



## TWO-YEAR COMPLETION CURRICULA

These curricula are organized for students who have not yet qualified for enrollment in a four year curriculum leading to the Bachelor of Arts degree, and for regularly qualified students who prefer a short college completion course of two-years duration.

The following special courses are designed for students enrolled in a two-year completion curriculum: Astronomy L40; Biology L40; English L40B, L40C; Geography L40A, L40B; Geology L40; Physical Science L40; Psychology L40; Social Science L40, L45; Sociology L40A, L40B; Spanish L40A, L40B; Speech Arts L40.

Any other course designated by the prefix "L" (e.g. English L1A) is regularly open to students enrolled in a two-year completion curriculum. See Limited Electives, page 27. The following courses are also regularly open to two-year students: Aesthetics 1A, 1B, 2; Art 6A, 6B, 8A, 8B, 11A, 11B, L14A, 14B, 52A, 61B, 94A, B; Health Education 1, 2; Mathematics C, D, E, S; Music 1B, 11A, 11B, 11C, 11D, 12A, 12B, 12C, 12D, 13A, 13B, 13C, 13D, 15A, 15B, 15C, 15D, 20A, 20B, 20C, 20D, 26A, 26B, 26C, 26D, 27A, 27B; Occupations; Speech Arts 55A, 55B.

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

### Two-year Curriculum in Liberal Arts

FIRST YEAR	Units		SECOND YEAR	Units	
	Sem. I	Sem. II		Sem. I	Sem. II
English L1A-L40B or English Elective*	3	3	Speech Arts L40 or English L40C	3	--
Physical Science L40 or equivalent**	3	--	Social Science (Economics L10A, Merchandising L20, Sociology L40B, or Social Science Elective*)	3	--
Biological Science L40 or equivalent**	--	--	Social Science L45	--	3
Social Science L40	3	3	Psychology L40	--	3
Sociology L40A	--	3	Elective*	9	10
Orientation	5	5	Physical Education	$\frac{1}{2}$	$\frac{1}{2}$
Health Education 1 or 2	1	--		15 $\frac{1}{2}$	16 $\frac{1}{2}$
Physical Education	$\frac{1}{2}$	2			
	15 $\frac{1}{2}$	16 $\frac{1}{2}$			

\* See foregoing list in italics.

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

### Two-year Curriculum in Art

FIRST YEAR	Units		SECOND YEAR	Units	
	Sem. I	Sem. II		Sem. I	Sem. II
English L1A, L40B or English Elective*	3	3	Social Science L40 or equivalent	3	--
Physical Science L40 or equivalent	3	--	Social Science L45	--	3
Biological Science L40 or equivalent	--	3	Art Elective**	9	9
Health Education 1 or 2	--	2	Elective*	3	4
Art 6A-6B	2	2	Physical Education	$\frac{1}{2}$	$\frac{1}{2}$
Aesthetics 5 or equivalent	2	--		15 $\frac{1}{2}$	16 $\frac{1}{2}$
Art A-B or equivalent	2	2			
Elective*	3	4			
Physical Education	$\frac{1}{2}$	$\frac{1}{2}$			
	15 $\frac{1}{2}$	16 $\frac{1}{2}$			

### Two-year Curriculum in Music

FIRST YEAR	Units		SECOND YEAR	Units	
	Sem. I	Sem. II		Sem. I	Sem. II
English L40A, L40B or English Elective*	3	3	Social Science L40 or equivalent	3	--
Physical Science L40 or equivalent	3	--	Social Science L45	--	3
Biological Science L40 or equivalent	--	3	Speech Arts or Foreign Language*	3	3
Health Education 1 or 2	--	2	Music 4A-4B* or approved substitute	3	3
Music L1A-1B or equivalent	2	2	Applied Music	1-2	1-2
Aesthetics 1A-1B	2	2	Elective (including at least 2 units of music)*	4-5	5-6
Music Elective*	1	1	Physical Education	$\frac{1}{2}$	$\frac{1}{2}$
Applied Music	1-2	1-2		15 $\frac{1}{2}$	16 $\frac{1}{2}$
Elective*	2-3	1-2			
Physical Education	$\frac{1}{2}$	$\frac{1}{2}$			
	15 $\frac{1}{2}$	16 $\frac{1}{2}$			

\* See list in italics on page 62.

\*\* Art Elective: Art 8A-8B, 7, 11A-11B, 14A-14B, 15A-15B, 16A-16B, 52A, 94.



## Two-year Curriculum in Speech Arts

FIRST YEAR	Units		SECOND YEAR	Units	
	Sem. I	Sem. II		Sem. I	Sem. II
English L1A, L40B or English Elective*	3	3	Physical Science L40 or equivalent	--	3
Health Education	2	--	Speech Arts, Elective (Oral Interpretation, Dramatic Expression)*	3	3
Speech Arts L40	3	--	Art 52A	2	--
Speech Arts 55A-55B	3	3	Art 94	2	--
Aesthetics 1A-1B	2	2	Social Science L40 or equivalent	3	--
Art 6A-6B	2	2	Social Science L45	--	3
Biological Science L40 or equivalent	--	3	Psychology L40	3	--
Physical Education	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	$\frac{1}{2}$
Elective*	--	3	Elective*	3	6
	15 $\frac{1}{2}$	16 $\frac{1}{2}$		16 $\frac{1}{2}$	15 $\frac{1}{2}$

## Two-year Curricula in Merchandising, Accountancy, and Secretarial Training

The curricula in merchandising, accountancy, and secretarial training offer a short business preparation of college grade. The four-year course in the Liberal Arts curricula leading to the A.B. degree with a major in economics or commerce offers a more thorough preparation for business not only by furnishing a richer background of knowledge but by encouraging individual research work and a research attitude of mind in order that the student may become more resourceful, self-reliant, and keener to analyze and cope with business and social conditions and problems.

\* See list in italics on page 62.

## Merchandising

FIRST YEAR	Units		SECOND YEAR	Units	
	Sem. I	Sem. II		Sem. I	Sem. II
English L8	--	3	Merchandising L20	3	--
Speech Arts L40	3	--	Merchandising L24B	--	3
Secretarial Training LA	1	--	Merchandising L27	--	3
Secretarial Training L1A	3	--	Economics 18A-18B	3	3
Secretarial Training L3A	--	3	Economics L10A-L10B	3	3
Economics L15A-L15B	3	3	Psychology L40	3	--
Merchandising L25	3	--	Physical Education	$\frac{1}{2}$	$\frac{1}{2}$
Merchandising L26	--	2	Social Science L45	--	3
Art 7	--	3	Physical Science L40 or Biological Science L40 or equivalent	3	--
Biological Science L40 or equivalent or Physical Science L40 or equivalent	3	--	Elective*	1	--
Health Education 1 or 2	--	2		16 $\frac{1}{2}$	15 $\frac{1}{2}$
Physical Education	$\frac{1}{2}$	$\frac{1}{2}$			
	16 $\frac{1}{2}$	16 $\frac{1}{2}$			

## Accountancy

FIRST YEAR	Units		SECOND YEAR	Units	
	Sem. I	Sem. II		Sem. I	Sem. II
Economics L15A-L15B	3	3	Economics L65A-L65B	3	3
English L8	--	3	Merchandising L20	3	--
English Elective*	3	--	Merchandising L24B	--	3
Secretarial Training L1A-L1B	3	3	Secretarial Training L3A	3	--
Health Education 1 or 2	--	2	Economics 18A-18B	3	3
Physical Science L40 or equivalent	3	--	Economics L10A-L10B	3	3
Biological Science L40 or equivalent	--	3	Social Science L45	--	3
Elective*	3	2	Elective*	--	1
Physical Education	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	$\frac{1}{2}$
	15 $\frac{1}{2}$	16 $\frac{1}{2}$		15 $\frac{1}{2}$	16 $\frac{1}{2}$

\* See list in italics on page 62.



# Secretarial Training

	Units	Units		Units	Units
FIRST YEAR	Sem. I	Sem. II	SECOND YEAR	Sem. I	Sem. II
Economics L16A-			Physical Science		
L16B -----	3	3	L40 or equivalent	3	--
Secretarial Training			Biological Science		
LA -----	1	--	L40 or equivalent	--	3
English L8 -----	3	--	Economics 18A-18B	3	3
English Elective* --	--	3	Economics L10A-		
Secretarial Training			L10B -----	3	3
L1A-L1B -----	3	3	Secretarial Training		
Secretarial Training			L6A-L6B -----	3	3
L5A-L5B -----	5	5	Secretarial Training		
Health Education 1			L3A -----	3	--
or 2 -----	--	2	Social Science		
Physical Education --	$\frac{1}{2}$	$\frac{1}{2}$	L45 -----	--	3
			Elective* -----	--	1
	15 $\frac{1}{2}$	16 $\frac{1}{2}$	Physical Education --	$\frac{1}{2}$	$\frac{1}{2}$
				15 $\frac{1}{2}$	16 $\frac{1}{2}$

\* See list in italics on page 62.

## COURSES OF INSTRUCTION

Figures in parentheses indicate the unit value of the course.

Courses numbered from 1 to 99 are lower division (freshman or sophomore courses; those numbered 100 and above are upper division (junior or senior) courses. The prefix "L" is used to denote courses which are classified as limited electives for students enrolled in the liberal arts curricula. See page 27. Students may not ordinarily apply more than a total of twelve units of credit, earned in courses so designated, toward the requirements for the bachelor of arts degree. The prefix "E" indicates courses which are offered through the Extension service, and "S" denotes courses which are available during the Summer Session.

Freshmen are not admitted into upper division courses.

A sophomore may enroll in an upper division course for lower division credit provided he has earned an average grade of not less than 1.5 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 units required in the lower division.

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

The semester in which courses are offered is designated as follows: (1) Fall; (2) Spring; (3) Fall and Spring; (4) Year course, beginning either Fall or Spring; (5) Year course. Courses designated as "Year course" begin in the Fall, but those given in the list below may be taken in the reverse order (i.e., the second semester of the course may be taken before the first semester) or the second semester may be taken alone. In the case of other year courses, students who have completed the equivalent of the first semester's work may seek permission from the instructor to take the second half of the course. 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 105A-105B
Aesthetics 102A-102B	Spanish 110A-110B
Anthropology 50A-50B	History 4A-4B
Anthropology 151A-151B	History 8A-8B
Economics 160A-160B	History 111A-111B
English 30A-30B	History 121A-121B
English 52A-52B	History 146A-146B
English 56A-56B	History 151A-151B
English 106A-106B	History 156A-156B
English 107A-107B	History 171A-171B
English 117A-117B	History 173A-173B
French 101A-101B	Merchandising L24A-L24B
French 105A-105B	Political Science 1A-1B
French 107A-107B	Political Science 71A-71B
French 110A-110B	Political Science 175A-175B
French 111A-111B	Speech Arts 55A-55B
Spanish 101A-101B	Speech Arts 55C-55D
Spanish 102A-102B	Speech Arts 155A-155B
Spanish 104A-104B	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 which the enrollment does not come up to the minimum number set by the State Department of Education may not be offered or may be postponed.

## AESTHETICS

## LOWER DIVISION COURSES

## 1A-1B Survey of Music

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 (2)

## UPPER DIVISION COURSES

## 102A-102B History of Music

D. F. Smith

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

Year course (2-2)

## 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)

## ANTHROPOLOGY

Lower division preparation for the liberal arts major in social science with concentration in anthropology: Anthropology 50A-50B, Sociology 50A, 50B, Geography 1, 2. Recommended: Geology 1A-1B, Economics 1A-1B. See requirements for the social science major, page 134.

## 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.

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.

Fall (3) (Not offered in 1941-42)

## UPPER DIVISION COURSES

## 151A The American Indian: North American

Rogers

Pre-Columbian cultures of the North American Indian. The origin and migration of New World peoples. Industries, arts, crafts, social organization, religion and other phases of American Indian civilization.

Fall (3) (Offered in 1941-42 and alternate years)



**151B The American Indian: Middle America** Rogers  
The development of civilization in Pre-Columbian Mexico and Central America: Aztec, Mayan, and related cultures.

*Spring (3) (Offered in 1941-42 and alternate years)*

**152 Primitive Cultures (Ethnography)** Rogers  
History and cultural development of primitive races of mankind. Consideration given to industries, arts, social organization, and religion of preliterate culture groups.

*Fall (3) (Offered in 1942-43 and alternate years)*

**153 Primitive Religion** Rogers  
Beliefs and ritual of primitive man. Magic and religion. Forms of animism and polytheism. Primitive mentality and the supernatural.

*Spring (3) (Offered in 1942-43 and alternate years)*

## ART

*Candidates for a teaching credential in art should refer to the statement "Admission to Teacher Training" on page 28.*

*Lower division preparation for the liberal arts major in 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 four elective units in art.*

*Liberal arts major (upper division): Twenty-four upper division units. These shall include Art 112A, 115A-115B, 152A, 195, or the accepted equivalent; 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 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 68.*

## LOWER DIVISION COURSES

**A-B Freehand Drawing**

**Semester I:** Problems involving perspective to develop ability to draw still life, furniture, exteriors, interiors, and the like.

**Semester II:** Outdoor sketching of landscape and figure, and studio work from still life and costume pose. Emphasis on composition and technique in the handling of various mediums, pencil, pen and ink, charcoal, pastel, and water color.

*Year course (3-3)*

**6A Structure**

Fundamentals of design and composition and theory of color. Basic course used as a prerequisite for all advanced work.

*Fall and Spring (2)*

**6B Structure (continued)**

Jackson, Patterson

Original work in creative design with special stress on modern tendencies. Prerequisite: Art 6A.

*Fall and Spring (2)*

**L7 Line, Color and Display**

Patterson

The principles of line, color and arrangement applied to store and window display. Study and observation of windows, color and materials used in display. Building models and practical problems in arranging colors, textures, and forms in windows to fit different kinds of merchandise.

*Fall and Spring (2)*

**8A-8B Appreciation of Costume and Home Furnishing** Patterson

**8A** A survey of the periods of costume and home furnishing from primitive man to the present time.

*Fall (2)*

**8B** Lectures, discussions, and demonstrations on the underlying principles of dress and home furnishing. (a) A study of the design, color, texture, fabric, and fashion in 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.

*Spring (2)*

**11A Industrial Design**

Hamann

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

*Fall (2)*

**11B Advanced Industrial Design**

Hamann

Advanced problems with emphasis upon the related factors of material and production. Application of problems designed. Prerequisites: Art 6A-6B, 11A.

*Spring (2)*

**L14A Lettering**

Houser

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**

Houser

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.

*Spring (2)***95 Home Decoration (See Art 195)****Patterson****15A-15B Life Drawing****Jackson**

Drawing from the nude model. Prerequisite: Art A-B.

*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 and oil. Semester II: Landscape and more advanced composition in water color and oil. Prerequisite: Art A-B.

*Year course, beginning either Fall or Spring (3-3)***Art 61A Fine and Industrial Arts****Soulé**

A foundation course which develops unification of work of the elementary grades through activities and experiences. These experiences grow out of environmental activities. They include study and working of clay, lumber and tools, textiles, and cardboard construction. Prerequisite: Art 6A.

*Fall and Spring (2)***61B Elementary Crafts****Hamann**

Problems involving the application of design principles to various fields—pottery, textiles, weaving, metal work, wood-carving, and book-binding. Prerequisite: Art 6A.

*Fall and Spring (2)*

## UPPER DIVISION COURSES

**106A-106B Printmaking****Houser**

Study of print crafts which includes the making of linoleum blocks, wood engravings, etchings and lithographs. Prerequisites: Art A, B, 6A.

*Year course (2-2)***106C Illustration****Houser**

Same as 106A-B except that printmaking is applied to problems of book illustration. Prerequisites: Art A, B, 6A.

*Spring (2) (Offered in 1942-43 and alternate years)***112A-112B Organization****Houser**

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 (3-3)***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 (3-3)***152A Stage Design****Patterson**

See Art 52A.

**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. Prerequisites: Art 6A, 52A or 152A.

*Fall (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)*

## ASTRONOMY

*Lower division preparation in Astronomy desirable for advanced work: Astronomy 1, 2, 3, and 9; Mathematics 3A-3B, 4A-4B; Physics 1A-1B and 1C-1D; a reading knowledge of French and German 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 John Byrne refractor and an eight-inch reflecting telescope are available for observation. Prerequisites: Elementary algebra and plane geometry.

*Fall and Spring (3)*



**2 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 or permission of the instructor.

*Note the designation of this course has been changed from 11 to 2.*

*Spring (3)*

**3 Surveyor's Course in Practical Astronomy**

**C. E. Smith**

The principles of spherical astronomy adapted to the needs of engineering students. Computation and observation. Prerequisites: Surveying 1A or permission of the instructor. Astronomy 1 and 9 desirable.

*Spring (2) (Offered in 1941-42 and alternate years)*

**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 or permission of the instructor.

*Fall and Spring (1)*

**12 Elementary Navigation**

**C. E. Smith**

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

*Spring (2)*

**L40 Elementary Astronomy**

**C. E. Smith, Watson**

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

*Fall and Spring (3)*

UPPER DIVISION COURSES

**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 three units in astronomy.

*Fall and Spring (1 or 2)*

**105 Historic Development of Astronomy**

**C. E. Smith**

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

*Spring (3) (Offered in 1942-43 and alternate years)*

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

*Spring (3) (Offered in 1941-42 and alternate years)*

BACTERIOLOGY

LOWER DIVISION COURSES

**1 General**

**Darsie**

An introduction to bacteriology. Effects of physical and chemical agencies upon bacteria; biochemical activities of bacteria; microscopic examination and cultivation of bacteria; the bacteria of air, water, soil, milk and dairy products, other foods; industrial applications. Introduction to disease-producing bacteria. Required of prenursing students. Reduced credit for students with credit for Bacteriology 6. Two hours of lecture and six hours of laboratory per week. Prerequisite: Chemistry 1A or 2A.

*Spring (4)*

**6 Survey**

**Darsie**

A cultural course for nontechnical students, stressing the practical applications of bacteriology to everyday life. Two hours of lecture per week. No prerequisites. Not open for credit to students who have credit for Bacteriology 1.

*Spring (2)*

UPPER DIVISION COURSES

**101 General**

**Darsie**

Lectures and laboratory work of Bacteriology 1 with an additional hour of seminar each week. Open only to upper division students by special arrangement.

*Spring (4)*

**199 Special Study**

**Darsie**

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

BIOLOGY

LOWER DIVISION COURSES

**1 Survey**

**Darsie**

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

*Fall or Spring (3)*



## BOTANY

### 10A-10B General

Lectures: Johnson

Laboratory: Crouch, Johnson

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. Two lectures and one three-hour laboratory period per week. Designed for those who do not expect to specialize in zoology or botany; not open for credit to students who have taken Zoology 1A, or Botany 2A. Students who have taken 10A-10B may elect Zoology 1B or Botany 2A, 2B for credit.

*Year Course (3-3) Begins in Fall only*

### L40 Man and His Biological World

Jannoch

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

*Fall and Spring (3)*

## BOTANY

*Lower division preparation for advanced work in botany: Botany 2A, 2B, 4, and Chemistry 1A, 1B, 8. Recommended: German, French, and elementary courses in other biological sciences.*

### LOWER DIVISION COURSES

#### 2A General

Harvey

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

*Fall (4)*

#### 2B General

Harvey

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

*Spring (4)*

#### 4 California Plants

Harvey

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

*Spring (2)*

#### 5 Cultivated Trees and Shrubs

Harvey

Recognition of the common cultivated trees and shrubs of the San Diego region. Trips to local parks and private gardens. Three hours per week laboratory or field work. No prerequisite.

*Fall (1)*

## CHEMISTRY

### UPPER DIVISION COURSES

#### 101 Cellular Physiology

Darsie

A study of the vital activities of protoplasm, stressing the various physio-chemical relationships involved. Laboratory study of both plant and animal material will serve as an introduction to the methods of modern experimental biology. Two hours of lecture and six hours of laboratory per week. Prerequisite: One year of Life Science in college and three units of college chemistry. Additional training in chemistry and physics is desirable.

*Fall (4) (Offered in 1942-43 and in alternate years)*

#### 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 1941-42 and alternate years)*

#### 104 Taxonomy

Harvey

Identification, classification and distribution of representative orders of flowering plants. One hour of lecture and six hours per week of laboratory and field work. Prerequisites: Botany 2A-2B, or 4.

*Spring (3) (Offered in 1941-42 and alternate years)*

#### 107 Plant Physiology

Darsie

The activities of plants, including food manufacture, absorption, conduction, transpiration, respiration, growth, and movement. Prerequisite: Cellular Physiology or equivalent.

*(1-2) By arrangement*

#### 199 Special Study

The Staff

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

*Fall and Spring (1 or 2)*

## CHEMISTRY

*Lower division preparation for the liberal arts major in 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.*

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

*For requirements for liberal arts major in physical science, see page 126.*



## LOWER DIVISION COURSES

**1A-1B General Chemistry****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)*

**2A-2B General Chemistry****Nichols**

A general course for those not intending to take advanced courses in chemistry. The work in the first semester stresses inorganic chemistry and fundamental principles; that of the second semester covers an introduction to organic and biochemistry. Emphasis placed on applications of chemistry to everyday life. Two lectures and one laboratory period per week. Required of prenursing students and recommended for those desiring chemistry as part of a liberal education.

*Year course (3-3)*

**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 105A.

*Spring (3)*

**110A-110B Physical Chemistry****Nichols**

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

*Year course (3-3)*

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

Physico-chemical problems and measurements. Two laboratory periods per week. Prerequisites: Credit or registration in Chemistry 110A-110B.

*Year course (2-2)*

**112 Industrial Analysis****Robinson**

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

*Spring (2) (Offered in 1941-42 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 1941-42 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 1942-43 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.

*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 7, 8.

*Fall (2) (Offered in 1941-42 and alternate years)*

**127 Advanced Inorganic Chemistry****Robinson**

A detailed study of the Periodic Table. Discussion of complex inorganic compounds and oxidation-reduction potentials. Prerequisite: Chemistry 1A-1B and upper division standing.

*Fall (2) (Offered in 1942-43 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.

*Spring (3) (Offered in 1941-42 and 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)*



## COMMERCE

(See Economics and Commerce, below)

## ECONOMICS AND COMMERCE

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

**Economics** Lower division preparation for the liberal arts major in economics and for the junior certificate: Economics 1A-1B and at least one of the following: Political Science 1A-1B or 71A-71B; History 4A-4B, 8A-8B; Psychology 1A and 1B; Sociology 50A-50B; Anthropology 50A-50B. Recommended: Economics 14A-14B, 18A-18B.

**Liberal arts major in economics**, 24 upper division units required as follows: Economics 100, 102 or 111, 140 and 199, with 6 additional units selected from Economics 102 or 111, 107, 125, 131, 133, 135, 150, 171 and 194. Electives: Six additional upper division units in economics. Political Science 143A-143B may be substituted for elective units in economics.

**Commerce** Candidates for a teaching credential in business education should refer to the statement "Admission to Teacher Training Curricula" on page 28 and to the curriculum for the A.B. degree with a special credential in Business Education on pages 38 to 39.

**Lower division preparation for the liberal arts major in commerce and for the junior certificate:** Economics 1A-1B, 14A-14B (6 units), 18A-18B; English 1B, 2 or 3; Geography 10A-10B, Mathematics D, or equivalent, and Economics 2; History 4A-4B or 8A-8B or Political Science 1A-1B or 71A-71B. Recommended for concentration in insurance: Political Science 71A-71B; Merchandising L26A.

**Liberal arts major in commerce**, 24 upper division units required as follows: Economics 111, 121, 140, 199 with 12 units additional chosen in one of the following groups:

A. Accounting: Economics 160A-160B, 161, 162.

B. Banking and Finance: Economics 133, 135 and 6 units selected from Economics 107, 131, 134, 137.

C. Insurance: Economics 125, 127, 133, 134. Recommended: Economics 131, 135.

D. Business Administration: 6 units selected from Economics 123, 137, 142, 150. Electives: 6 additional upper division units in economics.

## LOWER DIVISION COURSES

## 1A-1B Principles of Economics

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,

Cameron, Jordan

etc. Aims of the course: (1) to provide a foundation for further intensive study of economic problems; (2) to furnish to those who expect to follow business pursuits a broad foundation in economic principles; and (3) to introduce future citizens to political and economic problems of our time. Lectures, discussions, quizzes, and collateral reading. Not open to entering freshmen except by special arrangement.  
Year course (3-3)

## 2 Mathematics of Finance

Wright

Interest and annuities; amortization; sinking funds; valuation of bonds; depreciation; mathematics of building and loan associations; mathematics of life insurance. Prerequisites: Two years of algebra in high school, or equivalents.

Spring (3)

## L10A-L10B Business Economics

Watenpaugh

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

Year course (3-3)

## 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 (3-3)

## L15A-L15B Elementary Accounting

Watenpaugh

An introductory course in the fundamental principles of accounting; recording business transactions; opening and closing books of different kinds of business in accordance with modern accounting practice; accounting theory combined with actual practice. Balance sheet; profit and loss statements; accounts; book of entry, etc. Planned for students entering accounting work who must confine their preparation to one or two years.

Year course (3-3)

## L16A-L16B Secretarial Accounting

Watenpaugh

A course in secretarial accounting covering the fundamental principles of accounting and the application of these principles to the accounting work required by one employed in a secretarial capacity.

Year course (3-3)



**18A-18B Commercial Law**

Wurfel

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

*Year course (3-3)*

**L65A-L65B Record Keeping**

Watenpaugh

An advanced course in the application of accounting theory and principles to accounting practice; the technical arrangement of accounting forms, records and reports found in business; advanced theory. Opportunity afforded students through the use of practice sets, etc. to secure practice in applying principles to actual work done in business. Prerequisite: Accounting 15A and B or 16A and B or Economics 14A and B.

*Year course (3-3)*

## UPPER DIVISION COURSES

**100 Modern Economic Thought**

Jordan

Review of schools of economic thought in the light of recent economic theory with special reference to value and distribution. Special attention is given to the marginal utility theory of value, to the contributions of the institutional economists, and to the work of statisticians in the development of economic theory. Prerequisite: Economics 1A-1B.

*Fall (3)*

**102 Social Control and Economic Planning**

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 1941-42 and alternate years)*

**107 Credit and Credit Institutions**

Jordan

A study of the economics of credit, its cost, and the agencies supplying credit. Special attention is given to the growth of government credit agencies and their place in modern economic society. Prerequisite: Economics 1A-1B. Recommended: Economics 100.

*Spring (3)*

**111 Economic History of the United States**

Wright

A comprehensive survey of American economic development and of national legislation in the field of industry.

*Fall (3)*

**121 Business Administration**

A. G. Peterson

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

*Fall (3)*

**123 Principles of Marketing**

Jordan

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

*Fall (3) (Offered in 1941-42 and alternate years)*

**125 General Insurance—Principles and Practice**

Jordan

Economic theory of risk, its extent and importance to both the individual and business; transfer of risk; distribution and prevention of loss; types of insurance carriers; problems of rate making; the insurance contract; coverages; special forms of life, fire, marine and casualty insurance; state supervision.

*Fall (3) (Offered in 1941-42 and alternate years)*

**127 Life Insurance—Principles and Practice**

Jordan

A study of social and individual values involved in the institution of life insurance. The student is then directed to the types of life insurance companies and associations, home office and agency organization, types of contracts, surrender value, policy loans and extended insurance, surplus and dividend policies, reserves, group, industrial and social insurance, and state supervision.

*Fall (3) (Offered in 1942-43 and alternate years)*

**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) (Not offered in 1941-42)*

**L129 Real Estate Law and Practice**

Barnes, Conklin, Merrill, Rezder

California law and practice relating to the ownership and transfer of real property, including deeds, contracts, mortgages, taxes, escrows, title insurance, etc.

*Spring (3) (Offered in 1942-43 and alternate years)*

**131 Public Finance and Taxation**

A. G. Peterson

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

*Spring (3) (Offered in 1942-43 and alternate years)*

**133 Corporation Finance**

Cameron

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

*Fall (3)*



**134 Investments****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.

*Spring (3)*

**137 Credits and Collections****Cameron**

The credit man and his work, including the instruments with which he works, sources of credit information, the technique of his department, collection methods, legislation for the protection of debtor and creditor, and credit insurance.

*Fall (3) (Offered in 1942-43 and alternate years)*

**140 Statistical Methods****Jordan**

The nature and uses of statistical method in the social sciences. Practice in tabular and graphic presentation of data; analysis of frequency and time series; index number construction and study of correlation techniques. Prerequisite: Mathematics A and D, or equivalent.

*Fall and Spring (3)*

**142 Business Fluctuations and Business Forecasting****Jordan**

Fundamental factors in business cycles are analyzed and cycle theories are examined. Study of current business conditions begins early in the course and develops into practical application of forecasting methods to both business and other data. Prerequisite: Economics 140.

*Spring (3) (Offered in 1942-43 and alternate years)*

**150 Labor Problems and Industrial Relations****A. G. Peterson**

A discussion of employment, hours, wages, working conditions, insurance, pensions, workmen's compensation, labor organizations, and labor legislation. Organization of personnel functions; selective devices, training and safety programs, compensation plans, morale.

*Fall (4) (Offered in 1941-42 and alternate years)*

**160A-160B Advanced Accounting****Wright**

An intensive study of the corporation, its accounting and financial problems; a thorough study of the balance sheet; depreciation; factory accounting, etc. Under 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 1942-43 and alternate years)*

**161 Cost Accounting****Wright**

Principles and methods of cost accounting in the mercantile establishment and in the factory. A study of bookkeeping procedure, the forms used, and their application to practical problems. Prerequisite: Economics 14A-14B.

*Fall (3) (Offered in 1941-42 and alternate years)*

**162 Accounting Systems****Wright**

The accounting systems used in various types of business and financial concerns. Some practice in devising and installing systems. Prerequisite: Economics 14A-14B.

*Spring (3) (Offered in 1941-42 and alternate years)*

**164 Income Tax Procedure****Wright**

A consideration of the problems arising from the Federal income tax. The problems are approached from the point of view of the taxpayer who desires to determine the exact application of the law to the interests he represents as well as from the accounting point of view. No knowledge of accounting procedure is necessary.

*Fall (3) (Offered in 1941-42 and alternate years)*

**165A-165B Auditing****Wright**

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

*Year course (3-3) (Offered in 1942-43 and alternate years)*

**166 Honors Course****The Staff**

See page 21.

*Fall (3) or Spring (3)*

**167 Governmental Accounting****Wright**

A comparative study of accounting systems used by municipalities, counties, and the state of California; detailed comparisons with commercial practice; procedures in handling budget accounts, appropriations, and encumbrances; subsidiary records; cost records; internal checks; auditing.

*Spring (3) (Offered in 1941-42 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 in public utilities. Prerequisite: Economics 1A-1B.

*Spring (3) (Offered in 1941-42 and alternate years)*

**195 International Economic Relations****A. G. Peterson**

A brief treatment of certain geographical, sociological, and legal phases of international relations followed by a study of the commercial and industrial basis of world economy touching upon a number of special problems involved. An introductory study of materials covering the processes, principles, and policies of international trade. The course concerns itself primarily with the economic basis of international relations, but political



aspects are almost constantly taken into account in recognition of the fact that international relations are frequently political in form but economic in content.

*Spring (3) (Offered in 1941-42 and alternate years)*

### 198 Investigation and Report

A. G. Peterson

Designed to stimulate independent study and investigation; to furnish guidance in the collection, organization, and presentation of factual material; to improve the technique of term reports.

*Fall and Spring (1-1)*

### 199A-199B. Special Study

The Staff

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

*Fall (1), Spring (2)*

## EDUCATION

### UPPER DIVISION COURSES

#### L100A-B Methods and Materials of Instruction

R. C. Perry, Siemens, and major subject instructors

A year course required of all candidates in their junior year for the junior high and all special secondary credentials. Candidates for a combination of either a junior high or a special secondary credential with an elementary credential may substitute the work of the elementary practicum for the first half of this course, but not vice versa.

The first half of the course deals with general methods of instruction and the organization and functions of the secondary school curriculum; the second half deals with specific methods used in the field of the teaching major or minor and with directed observation of teaching.

Subject sections in 100B are offered in the following semesters:

Fall semester: Music (1942 and alternate years), Social Studies, Junior Business Training, Stenography, Speech Arts, Mathematics, Physical Education (men and women), and science.

Spring semester: English, Social Studies, Art, Science, Romance Languages (1941 and alternate years), Bookkeeping, Typewriting, Physical Education (men and women).

Students meet twice a week with their major subject instructors, once a week in a combined class with an education instructor.

*Fall and Spring (3-3)*

#### 102A-B The Psychological Foundations of Education

Deputy

A year course required of all teacher training candidates in their junior year. A basic course required in the curriculum preparing for the general secondary credential. The first half of the course deals with elementary statistics and the use of tests and other measuring devices; the second half deals with the problems of child growth and development and education psychology.

*Fall and Spring (6)*

#### LS109 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: Graduation from college with a teaching credential or two or more years of teaching experience.

*Summer (3)*

#### LS110 Educational Organization and Supervision

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

*Summer (3)*

#### LS111 English in the Junior High School (See Education 100B)

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.

*Summer (3)*

#### LS114 Social Science in the Junior High School (See Education 100B)

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.

*Summer (3)*

#### 115A-B The Principles and Functions of Education

Ault, R. C. Perry, Siemens

A year course restricted to students with senior standing or the equivalent. Required of all junior high school candidates. The second half of the course is required of all special secondary credential candidates and the first half is required of all elementary credential candidates.

The first half of the course deals with the historical backgrounds and underlying philosophies upon which the modern public school system has been established; the last half deals with the principles and sociological factors functioning in the modern secondary school.

*Fall and Spring (4-4)*

#### L116 Practice Teaching

R. C. Perry and Supervisors

Systematic observation, participation and teaching under supervision in the campus elementary school, the affiliated city elementary school, the Woodrow Wilson Junior High School, and the Herbert Hoover Senior High School. All students enrolled in this course are automatically enrolled in a section meeting bi-weekly throughout the semester as announced in the time schedule.



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

**L117 Music in the Elementary School** Arnold  
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)*

**L119 Art in the Elementary School** Arnold  
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)*

**L127 Music in the Secondary School (See Education 100B)** 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 1941-42 and alternate years)*

### LS130 Educational Psychology

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.

*Summer (3)*

### LS140 Elementary Educational Statistics

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

*Summer (3)*

### LS142 Educational Sociology

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.

*Summer (3)*

### L145 Organization and Administration of Music Education

L. D. Smith

Theory of the general principles of music administration; correlation of music with the various subjects in the public schools; music tests; creative work.

*Fall (2) (Offered in 1942-43 and alternate years)*

### L147 Education Practicum

Bacon, E. Hammack, I. Hammack, Hunt, Madden, Nordahl, Pfaff, Redit

This course and Education 148 are required of all students who expect to receive a credential which will qualify them to teach in the elementary school. Students should take the course during the next semester after admission to Teacher Training, which is usually the first semester of the junior year. Registration is strictly limited to small groups.

Education Practicum is a unified course which deals with the interpretation and intelligent application of theory and practice in elementary education. The child and accumulated knowledge are studied as one affects the other. The psychology of learning is interpreted while the college student is immediately associated with the experiencing of children. For two or three hours each day classes are held in which the psychology and philosophy of education are studied and analyzed as systems of knowledge and concurrently interpreted in reference to the actual teaching participation to which the student is assigned for one hour daily. The course includes the material commonly taught in many



colleges under the titles of educational psychology, principles of learning, mental hygiene, special methods courses in reading, arithmetic, English, art, music, speech, etc.

The course is taught by college instructors who are in direct contact with the Campus Elementary School.

*Fall and Spring (12)*

#### L148 Education Practicum

Bacon, Corbett, Hunt, Lucio, Madden, K. Post, B. Stone

The course is a continuation of Education 147. An extended analysis is made of the special fields and applications are made to teaching participation with groups of older children in the elementary school. Prerequisite: Education 147.

*Fall and Spring (12)*

#### Education 156A-B-C-D Principles and Problems in Guidance

Dotson, Mendenhall, C. E. Peterson

A noncredit course covering four semesters of work which will be available to members of the Student Counselor's group only. Designed to provide an orientation toward the principles and literature of guidance, and to prepare the student to meet the problems which he must face as a counselor. Meetings at least one hour a week throughout each semester. Approximately two hours of outside reading and study required each week.

*Fall and Spring (0-0)*

#### L160 Commercial Education (See Education 100B)

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)*

#### L161 Junior Business Training (See Education 100B)

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)*

#### L163 Stenography (See Education 100B)

Amsden

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

*Fall (2)*

#### L164 Bookkeeping (See Education 100B)

Wright

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

*Fall (2)*

#### L165 Typewriting (See Education 100B)

Amsden

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

*Spring (2)*

#### L169 Graphic Methods in Education

R. C. Perry

Fundamentals of pictorial representation as used by the teacher in presenting classroom material, in educational literature, in presenting the schools to the public, and in administrative control. Emphasis will be placed on the construction of charts and graphs for popular consumption. A course particularly valuable to candidates for the administrative credential. No prerequisite although it is desirable that the student have had some teaching experience.

*Spring (2)*

#### LE170 Administration of a Visual Instruction Program M. 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)*

#### L176 Speech Arts in the Secondary School (See Education 100B)

Jones

Organization and conduct of junior high and high school speech activities.

*Fall (2)*

#### L199 Educational Problems

Education Staff

(Dean of Education in charge)

A course for senior students in residence and enrolled in teacher training who have shown ability to work independently on educational problems. The problem can be chosen only after consultation with a staff member. Admission by consent of the staff. Credit and hours to be arranged.

*Fall and Spring (1-3)*

### ENGINEERING

(For curriculum in engineering see page 55.)

#### LOWER DIVISION

Gleason

#### 1A-1B Plane Surveying

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 Mechanical Drawing, or equivalent, and sophomore standing.

*Year course (3-3)*



**S3 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)

**21 Descriptive Geometry**

Walling

Fundamental principles of descriptive geometry and their application to problems of engineering. Lectures and drafting. Prerequisites: One year of mechanical drawing, and sophomore standing.

Fall (3)

**L22 Machine Drawing**

Walling

Design and drawing of simple machine parts with emphasis upon the production of standard drawings. Lectures and drafting. Prerequisite: Engineering 21, Mathematics 3A-3B.

Spring (3)

**L23 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 and machinery together with a general survey of the electrical industry. Primarily for engineering students other than mechanical or electrical. Lectures. Prerequisites: Mathematics 4A, Physics 1C.

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)

**50 C.A.A. Primary Ground School**

Clifford E. Smith

The course is divided into three parts. The first part deals with an integrated treatment of an applied theory of flight and aerodynamics, flight and engine instruments, engine and aircraft inspection and maintenance. The second part deals with the general theory of meteorology with practical application to flying. The third part is the study of navigation of aircraft by the systems of pilotage, dead reckoning, and use of radio aids; navigation instruments; map reading; variation; deviation; wind drift.

(4)

**51 C.A.A. Restricted Commercial Ground School**

In this course there will be a careful review of navigation and meteorology with some extensions. The main part of the course, however, will be devoted to an extensive study of the principle of the internal combustion engine and its care and maintenance and a careful analysis of aerodynamics and theory of flight, with a thorough study of structure and maintenance of airplanes. Also, one will be expected to learn radio telegraphy.

(5)

**52 C.A.A. Primary Flight Training**

This course includes 35 to 45 hours of actual flying and a considerable number of hours of ground instruction on flight maneuvers and inspection of airplanes.

(1)

## UPPER DIVISION

**125 Elements of Electrical Engineering**

Walling

Essentially the same as Engineering 25 with addition of special problem work for advanced students. Prerequisites: Mathematics 4A, Physics 1C. Primarily for students enrolled in the Industrial Physics curriculum.

Spring (3)

**128 Elements of Heat Power Engineering**

Walling

Essentially the same as Engineering 28 with addition of special problem work for advanced students. Prerequisites: Mathematics 3B, Physics 1B. Primarily for students enrolled in the Industrial Physics curriculum.

Fall (3)

## ENGLISH

Lower division preparation for the liberal arts major in English: English 1B or 1C, and one section of English 2; and six units from 50A, 50B, 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. A reading knowledge of German or French.

## LOWER DIVISION COURSES

**L1A Beginning Composition**

The Staff

The elements of composition, including drill in grammar and usage; exercises in vocabulary building and careful reading; theme writing. Credit in this course is equivalent to passing the English A examination.

Fall and Spring (3)

**L1AA Reading Efficiency and Vocabulary Extension**

Trail

Special drill in reading for comprehension; vocabulary building; practice in elementary composition. Systematic, progressive, and intensive training and practice in effective reading and methods of study. This course may be substituted for English L1A.

Fall and Spring (3)



**1B Freshman English**

The Staff

Composition stressing exposition. Reading from essays of England and America since 1850. Prerequisite: Satisfactory Subject A test or record from another college.

*Fall and Spring (3)*

**1C Freshman Literature**

Keeney

An introduction to literature significant in European and American culture, with composition. This course may be taken, in connection with either English L1A, L1AA, 1B or 2, to earn six units of credit in Freshman Composition and Reading.

*Fall and Spring (3)*

**2 Sophomore English: Composition and Reading**

The analysis of literature, with practice in writing of various types. This course is open to Freshmen who have completed either 1B or 1C. By taking English 1B and 2, the student earns credit for six units of composition. English 2 is taught in various parallel sections, as described below. These alternatives require equal work and give equal credit.

*Fall and Spring (3)*

**2A Sophomore English: Argumentation**

Allen

Composition stressing informal argumentation. Reading from contemporary essayists. Prerequisite: One semester of Freshman English. *Not open to students who have credit in English 2C.*

*Spring (3)*

**2B Sophomore English: Biography**

Kennedy, Haskell

Composition stressing personal narrative and informal essay. Reading from field of biography and memoirs. Prerequisite: One semester of Freshman English.

*Fall and Spring (3)*

**2C Sophomore English: Periodical Literature**

Adams, F. L. Johnson

Composition stressing article writing of varied types. Reading from current periodical literature. Prerequisite: One semester of Freshman English. *Not open to students who have credit in English 2A.*

*Spring (3)*

**2D Sophomore English: Linguistics**

Allen

An elementary course in English Linguistics designed to make more significant the native language by studying the various linguistic influences upon it. Prerequisite: One semester of Freshman English.

*Fall and Spring (3)*

**2E Sophomore English: Modern Drama**

F. L. Johnson

Composition based upon the reading of recent plays and dramatic criticism. Prerequisite: One semester of Freshman English.

*Spring (3)*

**2F Sophomore English: Short Story Writing**

Bruner

A practical course in writing, including a study of short story technique and markets, and the writing of complete short stories. Prerequisite: One semester of Freshman English.

*Fall and Spring (3)*

**L8 English in Business**

Theory and practice of business correspondence. Business letters as applied salesmanship; problems in writing credit and collection letters, applications for employment, adjustment letters, and sales letters. Prerequisite: English L1A or equivalent, as indicated by Subject A Examination, or record from college. This course is planned for students in Secretarial Training; units obtained in it cannot be used to meet English requirements in other fields.

*Fall and Spring (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)*

**L40B Freshman English**

The Staff

Literature, mainly contemporary, is read for its thoughts and ideas, especially in relation to human problems and their solution. Practice in writing is continued. Prerequisite: English L1A or 1B. *Open only to students enrolled in a two-year curriculum.*

*Fall and Spring (3)*

**L40C Sophomore English: Biography**

The Staff

Composition stressing personal narrative and informal essay. Reading from field of biography and memoirs. Prerequisite: One semester of Freshman English.

*Fall and Spring (3)*

**50A-50B Survey of American Literature**

Kennedy

Semester I: A survey of American literature from its beginnings to 1860. Semester II: American literature from 1860 to the present. Lectures, discussions, and reports.

*Year course (3-3)*

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

Dickhaut, Trail

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

- 101A Modern Continental Fiction** Dickhaut  
A survey of leading French, Russian, Scandinavian, Italian, and German novelists and short story writers, from Tolstoy and his associates to the present day.  
*Spring (3) (Offered in 1942-43 and alternate years)*
- 101B Modern British Fiction** Dickhaut  
The novel and short story, especially of the last quarter of a century.  
*Spring (3) (Offered in 1941-42 and alternate years)*
- 106A, 106B Advanced Composition** Dickhaut  
A laboratory course in modern prose writing. Semester I: Artistic narrative, with description. The short story. Semester II: The essay, the magazine article, criticism. Outside readings. Prerequisite: One year of college composition. Either semester may be taken first.  
*Fall, Spring (3-3) (Offered in 1941-42 and alternate years)*
- 107A, 107B Advanced Composition** Adams  
These courses are designed for students who wish to do independent work in composition. The discussions will consider the problems of effective expression as exhibited in the work of the members of the class. Prerequisite: Same as for 106A, 106B. Either semester may be taken first.  
*Fall, Spring (3-3) (Offered in 1942-43 and alternate years)*
- 110 Recreational Reading** Dickhaut  
An advanced course in the group reading of modern drama, poetry and fiction.  
*Fall and Spring (1)*
- 112 History of the English Language** Allen  
An inductive historical approach to basic aspects of the language. The course includes an analysis of English sounds, grammar, and syntax, beginning with Modern English and going back through Early Modern, Middle, and Old English.  
*Fall (3)*
- 113 American English** Allen  
The rise of American English; its peculiarities in pronunciation, grammar, and vocabulary; slang; regional and cultural differences.  
*Spring (3) (Offered in 1941-42 and alternate years)*
- 115 The English Bible as Literature** Kennedy  
A study of the narrative, poetry, and prophecy of the King James version of the Bible. Readings, reports, lectures, and discussions.  
*Fall (3) (Offered in 1941-42 and alternate years)*
- 116A Non-Dramatic Literature of the English Renaissance** Allen  
Major writers from More to Bacon.  
*Spring (3) (Offered in 1942-43 and alternate years)*

- 116B The Elizabethan Drama** Adams  
Emphasis is given to the forerunners and early contemporaries of Shakespeare.  
*Spring (3) (Offered in 1941-42 and alternate years)*
- 117A-117B Shakespeare** F. L. Johnson  
A chronological survey. The first semester gives special emphasis to the histories and comedies; the second, to tragedy and the dramatic romances.  
*Year course (3-3)*
- 118A Swift and His Contemporaries** Keeney  
A study of the literature of the first half of the eighteenth century, with special emphasis on social satire of Swift, Pope, Addison, Steele, Gay and Prior.  
*Spring (3) (Offered in 1941-42 and alternate years)*
- 118B Age of Johnson** Keeney  
A study of Johnson and his circle as representative of their age, together with a study of Burns, Blake, and others as forerunners of the age of Romanticism.  
*Spring (3) (Offered in 1942-43 and alternate years)*
- 119 The Romantic Poets** Trail  
A study of early nineteenth century poetry; the work of Wordsworth, Coleridge, Byron, Shelley, and Keats, in relation to the thought of the revolutionary period.  
*Fall (3) (Offered in 1941-42 and alternate years)*
- 121 Poetry of the Victorian Period** Trail  
A study of Tennyson and Browning and their contemporaries and successors, relating English poetry to nineteenth century life and thought.  
*Fall (3) (Offered in 1942-43 and alternate years)*
- 126 Nineteenth Century British Prose** Dickhaut  
Readings and discussions of romantic and mid-Victorian prose writers, including Coleridge, Hazlitt, Lamb, DeQuincey, Carlyle, Landor, Macaulay, Mill and Thackeray.  
*Fall (3) (Offered in 1942-43 and alternate years)*
- 127 Modern British Prose** Dickhaut  
Late nineteenth and early twentieth century essays of Arnold, Beerbohm, Belloc, Chesterton, Galsworthy, Gosse, Huxley, Inge, Newman, Pater, Ruskin, Shaw, Stevenson, Tomlinson and Wells.  
*Fall (3) (Offered in 1941-42 and alternate years)*
- 131 Spokesmen of American Ideals, 1830-1860** Adams  
Major essayists and poets, with emphasis upon Emerson, Thoreau, and Whitman.  
*Fall (3) (Offered in 1942-43 and alternate years)*



- 132 The Frontier and American Literature** Kennedy  
A survey of the influence of the frontier upon American literature from colonial days to the present. Studies in source materials, biographies, and representative writers such as Irving, Cooper, Harte, and Mark Twain.

*Spring (3) (Offered in 1941-42 and alternate years)*

- 133 American Fiction** Adams  
The outstanding writers of novels and short stories, from Cooper to Norris.

*Fall (3) (Offered in 1941-42 and alternate years)*

- 134 Recent American Literature** Kennedy  
A survey of American literature since 1900 with emphasis upon contemporary poetry, fiction and drama.

*Spring (3) (Offered in 1942-43 and alternate years)*

- 143 The Development of the English Novel** Kennedy  
History of the English novel from the beginnings to Hardy. Extensive reading of novels with reports. Lectures and discussion.

*Fall (3) (Offered in 1942-43 and alternate years)*

- 151 Medieval Literature** Keeney  
The literature of the fourteenth century, especially the verse romances and the poetry of Chaucer.

*Fall (3)*

- 152A Survey of Drama: Comedy**  
Studies in the field of comedy, based on selected readings from the works of Continental, English, and American dramatists. Lectures, discussions, and reports on reading.

*Fall (3) (Not offered in 1941-42)*

- 152B Survey of Drama: Tragedy**  
Procedure as in 152A, with selections taken from the field of tragedy.

*Spring (3) (Not offered in 1941-42)*

- 160 Seventeenth Century Literature** Adams  
Emphasis is put upon the work of Milton.

*Spring (3) (Offered in 1942-43 and alternate years)*

- 166 Honors Course** Keeney and Staff  
Special study. Open to members of the Honors Group in English. See page 21.

*Fall and Spring (1 to 5-1 to 5)*

## FOREIGN LANGUAGES

The courses offered in foreign languages are listed below. See pages listed after each subject for a more complete description of the offerings under that designation. French, see below; General Language, page 100; German, page 104; Italian, page 108; and Spanish, page 137.

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, 147. Aesthetics 50 or 150; English 1C, 52A, 52B, 56A, 56B, 101, 116A, 116B, 117, 118A, 118B, 119, 121, 126, 143, 160.

## FRENCH

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

### LOWER DIVISION COURSES

- A-B Elementary** Baker, L. P. 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 B. Those who have had two years of French in high school should register for French C. No credit given for repetition of high school work.

*Year course (5-5)*

- C-D Intermediate** E. M. 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 two years of high school French, or its equivalent. Students with three years of high school French may take D with full credit.

*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 1941-42 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 1942-43)*



# GEOGRAPHY

## 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 works of Montesquieu, Voltaire, Rousseau, the Encyclopédistes, and others. Prerequisite: French D, or its equivalent, with a grade of C.

Year course (3-3) (Offered in 1944-45)

## 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, Barrès, 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 1943-44)

## 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.

Year course (3-3) (Offered in 1942-43)

## 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)

# GENERAL LANGUAGE

## LOWER DIVISION COURSE

## A Latin and Greek Word Derivation L. P. Brown

A general and elementary course in philology. A study of Latin and Greek roots of most frequent occurrence in English, and of the English words derived from them.

Fall (2)

# GEOGRAPHY

Lower division preparation for the liberal arts major in geography: 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.

# GEOGRAPHY

## LOWER DIVISION COURSES

## 1 Introduction to Geography: Elements

L. C. Post, Richardson, Storm

The nature of maps; weather and climates of the world; land forms and their associated soils, with reference to their climatic relationships; the seas and their coasts. Open to all students. This course is classified as a natural science.

Fall and Spring (3)

## 2 Introduction to Geography: Natural and Cultural Regions

L. C. Post, Richardson, Storm

The regional differentiation of the world by human activity; areal bases of economy and nationality. Prerequisite: Geography 1.

Fall and Spring (3)

## 3 Elementary Meteorology

Blake

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

Fall and Spring (3)

## 4 Map Reading and Map Interpretation

Richardson

Representation of geographic data by means of maps. Interpretation of projections, scales, symbols, land forms, and culture from topographic maps; measurements of cultural data on maps. Prerequisite: Geography 1.

Fall (3)

## 10A-10B Economic Geography

L. C. Post

Beginning course in economic geography limited to students in commerce and prospective economics majors. Not open to students who have had Geography 1 and 2. This course may serve as prerequisite to upper division geography courses.

Fall and Spring (3-3)

## L40A-L40B Introduction to Geography

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

Year course (3-3)

## UPPER DIVISION COURSES

## 112 Geography of California

Storm

The physiographic regions of California and the cultural landscapes developed by the successive cultural groups. Prerequisite: Geography 1.

Spring (3)



## GEOGRAPHY

### 113 Climatology

Richardson

A survey of the principal classifications of climates of the world; regional characteristics of climate; relations to soils, vegetation, and human activities. Prerequisite: Geography 1.

Spring (3)

### 116 Geography of Latin America

Richardson

The natural regions of Latin America; their occupational condition and historical evolution. Prerequisite: Geography 1.

Spring (3)

### 117 Geography of Northern and Eastern Europe

L. C. Post

A study of the cultural development of the countries of northern and eastern Europe in relation to physical background and historical evolution. Prerequisite: Geography 1.

Fall (3)

### 118 Geography of the Mediterranean Area

L. C. Post

A study of the cultural development of the countries of Southern Europe, Western Asia, and North Africa in relation to physical background and resources. Prerequisite: Geography 1.

Spring (3)

### 121 Geography of North America

Richardson

The natural regions of North America, their formation and economic and historical development. Prerequisite: Geography 1.

Fall (3)

### 124 Geography of Asia

Storm

The cultural regions of Asia, their physical environment, and historical development. Prerequisite: Geography 1.

Spring (3)

### 135 Geography of the San Diego Area

Storm

Directed individual urban and rural field work in the San Diego area; the mapping of a small area and making its geographic interpretations. Prerequisites: Geography 1 and 2.

Fall (3)

### 141 Economic Geography

Storm

A survey of the raw materials of world trade; their production and distribution as related to major geographic regions of the world. Prerequisite: Geography 1.

Fall (3)

### 166 Honors Course

L. C. Post

To be arranged after consultation. (See page 21.)

Fall and Spring (Credit to be arranged)

## GEOLOGY

### 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 Engineering 21 for Mathematics 3A. Geology 2A may be substituted for Geology 1A in prerequisite requirements provided the additional necessary unit of laboratory work is completed.

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

#### LOWER DIVISION COURSES

#### 1A Physical

Brooks

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

Fall (4)

#### 1B Historical

Brooks

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

Spring (4)

#### 2A General

Brooks

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

Fall (3)

#### 2B Physiography

Brooks

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

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) (Offered in 1941-42 and alternate years)

#### L40 General Geology

Brooks

An elementary course dealing with those processes of nature by which the surface of the earth is built up, deformed and torn down. A study of the natural history and occurrence of the common rocks and minerals.

Open only to students enrolled in a two-year curriculum.  
Fall and Spring (3)



## GERMAN

### UPPER DIVISION COURSES

#### 100 Structural 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 and emphasis on California geologic conditions. Lectures, discussions, and occasional field trips. Prerequisite: Geology 1A-1B.

Fall (3) (Offered in 1942-43 and alternate years)

#### 101 Geologic Problems

Brooks

Reconnaissance of adjacent areas with elementary mapping; or directed reading and group discussion of California Geology; or selection and preparation of materials for the museum collections. Prerequisite: Geology 1A-1B. Registration subject to approval of instructor.

Spring (1-4)

## 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 B. Those who have had two years of German in high school should register for German C. No credit given for repetition of high school work.

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 two years of high school German, or its equivalent. Students with credit for three years high school German, or its equivalent, should enter German D, and will receive full credit.

Year course (3-3)

#### 1-2 Elementary

H. K. Walker

A course similar to German A-B, but meeting only three times a week and giving only three units of credit a semester. Intended for those who wish to go more slowly than is possible in a course meeting five times a week. Credit not given for German 1 alone.

Year course (3-3)

#### SC-SD Scientific

Messner

Full 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 two years of high school German; German SD-German SC, German C, with a grade of C, or three years of high school German.

Year course (3-3)

## HEALTH EDUCATION

### HEALTH AND PHYSICAL EDUCATION

(See Physical Education)

### HEALTH EDUCATION

#### LOWER DIVISION

#### 1 Health and Social Adjustment (Men)

C. E. Peterson

An informational course in personal and community hygiene. A study of social hygiene and the hygienic principles of living. 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 Health and Social Adjustment (Women)

B. I. Stone

An informational course, reviewing the principles underlying the improvement of personal health, and the solution of practical problems of young women and prospective homemakers. Lectures by specialists in the various fields serve to enrich the course. Required of all freshmen who are candidates for junior standing or the degree.

Fall and Spring (2)

#### UPPER DIVISION

#### 151 Health Education (Education 147-148)

B. I. Stone

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)

#### 190 Physiology of Reproduction

Huff

A course consisting of a series of lectures and discussion dealing with normal and abnormal physiology and anatomy of reproduction facts and frauds in sex hygiene, and related topics. Prerequisite: Junior standing. Sophomores only with permission of a dean.

Fall (Women) (1)

Spring (Men) (1)

#### 191 Physiology of Infancy and Childhood

Black

A course for men and women designed to prepare for more intelligent parenthood and consisting of lectures on prenatal preparation and prophylaxis, appraisal of the new born infant, the hospital period, breast feeding, artificial feeding, physical hygiene of infancy. Normal mental growth, normal physical growth, habit training, disease prevention, behavior problems, preventable physical defects, the role of the physician and examination.

Spring (1)



## HISTORY

Lower division preparation for the liberal arts major in history: History 4A-4B or 8A-8B, and either Political Science 1A-1B, 71A-71B or Economics 1A-1B. Both history courses are recommended for students planning to major in history. No student shall enroll in more than one lower division history course during a semester.

Upper division requirements for the liberal arts major: At least twenty-four units in upper division courses in history, to be arranged in consultation with the chairman of the department. The student must enroll in History 199 in his senior year. A reading knowledge of at least one foreign language is expected of history majors.

The history minor: from twelve to eighteen units of work in history is recommended. At least half the work should be chosen from upper division courses.

## 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 and imperialism, Hellenism.  
Semester II—Roman history to the beginning of the medieval period; discussions of Roman imperialism and the main constitutional, economic, social and religious developments in the republic and empire.  
Year course (3-3) (Offered in 1941-42 and alternate years)

**121A-121B Medieval History** Osborn  
General survey of European political and cultural development between 500 and 1500 A.D., with special attention to intellectual tendencies and the development of institutions which culminated in the emergence of modern Europe after 1500.  
Year course (3-3) (Offered in 1942-43 and alternate years)

**143 The French Revolution and Napoleonic Era** Lesley  
An intensive study of the revolutionary period in Europe from 1789 to 1815.  
Fall (3) (Offered in 1941-42 and alternate years)

**144 Europe Since the World War** Lesley  
Developments in Europe from 1919 to the present.  
Spring (3) (Offered in 1941-42 and alternate years)

**146A-146B Diplomatic History of Europe Since 1648** Lesley  
A course centering around the four major European treaties, their background, drafting and results. First semester, the Treaties of Westphalia, Utrecht and Vienna. Second semester, the Treaty of Versailles.  
Year course (3-3) (Offered in 1942-43 and alternate years)

**147 History of Modern France** Lesley  
Intensive survey of the political and social development of France under the Third Republic, 1870 to the present. International and colonial problems of modern France will also be considered.  
Fall (3) (Offered in 1942-43 and alternate years)

**148 History of Modern Germany** Lesley  
Political, social and economic development of Germany after 1870, the Empire and Republic. German post-war problems, imperialism, and the establishment of the Third Reich will receive special attention.  
Spring (3) (Offered in 1942-43 and alternate years)

**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) (Offered in 1941-42 and alternate years)

**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) (Offered in 1942-43 and alternate years)

**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) (Offered in 1942-43 and alternate years)*

**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) (Offered in 1941-42 and alternate years)*

**199 Special Courses 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)*

**A-B Elementary** ITALIAN Phillips  
Intensive study of Italian grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation; reading of works by contemporary writers. Credit not given for Italian A unless followed by Italian B. Students who have had one year of Italian in high school should register for Italian B.  
*Year course (5-5) (Not offered in 1941-42)*

# JOURNALISM

*For the curriculum in journalism see page 60.  
For the profession of journalism introductory work in the fields of literature, history, political science, economics, social 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

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

**51A-51B News Gathering and Reporting** Swanson  
Study of news sources and types; practice in news and feature writing; newspaper organization; excursions and special lectures. Course planned for sophomores who have had English 1B, with high school journalism or equivalents. Freshmen admitted by permission of instructor.  
*Year course (3-3)*

**L53A-L53B Applied Journalism** Swanson  
Practice and projects in reporting news and feature stories and in other editorial work on *The Aztec*, *El Palenque*, *Del Sudoeste*. Prerequisite of 51A-51B required unless waived by the instructor. One lecture weekly.  
*Fall and Spring (1 to 3; 1 to 3)*

## UPPER DIVISION COURSES

**151A-151B Newspaper Editing** Swanson  
Study and practice in the editorial, headline writing and editing of newspaper copy; management of publications. Projects in newspaper and magazine work.  
*Fall and Spring (1-1)*

**L153A-L153B Advanced Journalism Practice** Swanson  
Editing of student publications and direction of personnel in editorial projects. Prerequisites of 51A-51B and 151A-151B required unless waived by instructor. One lecture weekly.  
*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.*

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

**199 Special Course for Advanced Students** Swanson  
Open to seniors with sufficient journalistic background to satisfy the instructor.  
*Spring (2)*

## LIBRARY SCIENCE

**L10 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)*



# LIFE SCIENCE

The courses offered in Life Science are listed below. See pages listed after each subject for a more complete description of the offerings under that designation. Anatomy, see Zoology, page 142; Bacteriology, page 75; Biology, page 75; Botany, page 76; Physiology, page 129; and Zoology, page 142.

# MATHEMATICS

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

Liberal arts major (upper division): Twenty-four units including at least eighteen in upper division mathematics, the others being selected from Astronomy 107, Chemistry 111A-111B, 144, 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, S Introductory Mathematics** The Staff  
Courses A, B, C, D, and E are equivalent to those of the same name in high school but with possible variation in emphasis. Course F reviews and adds emphasis to certain topics in algebra and trigonometry, thus enabling the average student to carry analytic geometry and calculus more successfully. Such topics as the binomial theorem, theory of quadratic equations, trigonometric identities, and trigonometric equations are treated much more thoroughly than in the usual high school course. Course S provides a practical introduction to the theory and use of slide rules.

For most students, the time required for Mathematics A or B will be equal to that for a 3-unit course, and for Mathematics D, that for a 5-unit course, the latter beginning with a review of elementary algebra. Courses C and D are offered each semester, others less frequently.

College credit may be earned as indicated below, provided the equivalent courses have not been taken in high school.

- A Elementary Algebra (2)
- B Elementary Geometry (2)
- C Trigonometry (3). Prerequisites: Mathematics A, B, and D.
- D Intermediate Algebra (3). Prerequisites: Mathematics A.
- E Solid Geometry (2). Prerequisites: Mathematics A, B, and D.
- F Introductory College Mathematics (3). Prerequisites: Mathematics A, B, C, and D.
- S Slide Rule (1). Prerequisites: Mathematics A, B, C, and D.

## 1 Elementary Calculus

A general course in calculus and related topics, primarily for students of social and biological sciences who do not have time for the longer courses

Livingston

in analytic geometry and calculus. Not available to students who have credit for Mathematics 3B. With Mathematics D taken in high school or college, this meets the "Additional Year Course" requirement for the lower division. Prerequisites: Elementary algebra and geometry, and intermediate algebra, with satisfactory grades.

Fall and Spring (3)

## 3A-3B Analytic Geometry and Calculus

Gleason, Walling

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

Year course (3-3)

## 4A-4B Solid Analytic Geometry and Calculus

Livingston, Walton

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

Year course (3-3)

## 8 College Algebra

Gleason

Complex numbers, determinants, and theory of equations. Prerequisites: Trigonometry and either 1 or 3A.

Spring (3)

## UPPER DIVISION COURSES

## 102 Selected Topics in Algebra

Livingston

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

Spring (3) (Offered in 1941-42 and alternate years)

## 104 History of Mathematics

Gleason

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

Fall (3) (Offered in 1941-42 and alternate years)

## 105 College Geometry

Livingston

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

Fall (3) (Offered in 1942-43 and alternate years)

## 106 Projective Geometry

Livingston

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

Fall (3) (Offered in 1941-42 and alternate years)



**111 Higher Algebra**

Walton

Linear dependence, matrices, quadratic forms, groups. Prerequisites: Mathematics 3A, 3B, 8, 4A, or permission of the instructor.

*Fall (3) (Offered in 1942-43 and alternate years)*

**112 Analytic Projective Geometry**

Walton

Projective coordinates, projective properties of loci of second and third order. Prerequisites: Mathematics 3A-3B, 4A-4B, 8, and 106.

*Spring (3) (Offered in 1941-42 and alternate years)*

**117 Intermediate Calculus**

Livingston

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

*Spring (3)*

**118 Advanced Calculus**

Walton

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

*Spring (3) (Offered in 1942-43 and alternate years)*

**119 Differential Equations**

Gleason

Ordinary differential equations of first and second order, with applications. Prerequisite: Mathematics 3A, 3B, 4A.

*Spring (3) (Offered in 1941-42 and alternate years)*

**124 Vector Analysis**

Worley

Addition, subtraction, multiplication, differentiation, and integration of vectors, with applications in geometry, mechanics, and mathematical physics. Some attention is given to divergence, gradient, and curl. Prerequisites: Mathematics 3A, 3B, 4A and 4B.

*Spring (3) (Offered in 1942-43 and alternate years)*

**140 Probability and Statistics**

Gleason

Statistical theory and method from the mathematical standpoint; applications in social and natural science. Prerequisites: Mathematics 4A and 8.

*Spring (3) (Probably offered in 1942-43)*

**199A-199B Special Study**

The Staff

An opportunity is offered for advanced work in algebra, geometry and calculus; or for study of vector analysis, or theory of numbers. 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; and permission of the instructor.

*Fall or Spring (1 to 3, each semester)*

## MERCHANDISING

**L20 Consumer Problems**

Torbert

Growing importance of consumption as a field for study; consumer incomes in the United States; consumption and business cycles; bases of consumer choice-making; practical problems of buying food, clothing,

shelter, transportation, insurance, etc.; family budgeting; a survey of the methods by which products reach the consumer; market structure and functions seen from the consumer's point of view.

*Fall (3)*

**L24 Principles of Merchandising**

Torbert

A study of retail stores, emphasizing the problems of store managers and merchandising executives; store location, organization, personnel, sales promotion, buying and handling of merchandise, inventory, turnover, and control methods. Changing conditions in retailing, problems of profitable operation under present conditions.

*Spring (3)*

**L25 Principles of Salesmanship**

Torbert

Theoretical and psychological backgrounds of salesmanship, newer concepts of selling; the selling of ideas and services; steps in a sale; attention, interest, desire, closing; the development of clienteles and of good will; the personal factor in salesmanship.

*Fall (3)*

**L26 Applied Salesmanship**

Torbert

Classroom practice in selling; supervised work in cooperating stores, or outside selling; relationships between theory and practice in specific selling situations; incentive methods of payment in selling; the problem of sales managers in reducing selling costs.

*Spring (2)*

**L26A Life Insurance Salesmanship**

Torbert

A study of the special problems of life insurance selling, with emphasis on the psychological aspects of insurance selling, and on specific techniques for finding prospects, and for managing the sales interview. A course for students interested in life insurance selling, and for those planning to obtain life underwriter's certification. To be taken in conjunction with L26 (see above) and not available as a separate course.

*Spring (26 and 26A, taken together, 3 units)*

**L27 Principles of Advertising**

Torbert

A survey of advertising from the points of view of the business man and the consumer; business principles applied to advertising; basic psychological appeals employed; market analysis as an advertising tool; budgeting of appropriations; selection of mediums; layout, art work, copy; publicity devices; institutional advertising; the function of agencies; radio as a specialized advertising problem.

*Spring (3)*



## MUSIC

Candidates for a teaching credential in music should refer to the statement "Admission to Teacher Training Curricula" on page 28 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 40.

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

Liberal arts major (upper division): twenty-four upper division units. These shall include Music 105A-105B; 106A; 107A; 119; 120; 121A; 4 units of Applied Music; Aesthetics 102A-102B; and 4 units of music activity credit (Music 111, 112, 113, 115, or 126).

At least a C average in upper division music courses is necessary.

It is recommended that students in meeting degree requirements and in choosing free electives, select from the following courses: English 56A-56B; French A-B; German A-B; History 4A-4B; 146A-B; Physics 2A-2B.

## LOWER DIVISION COURSES

## L1A Music Reading and Ear Training—Fundamentals of Music

L. D. Smith  
D. F. Smith

The elements of music; scale construction; elementary music theory; drill in music reading both with syllables and with words; ear training; elementary music dictation. Basic course for all general elementary credential students. Music majors receive no credit.

Fall and Spring (2)

## 1B Music Reading and Ear Training—Musicianship L. D. Smith

Tonal and rhythmic dictation; rhythmic writing; sight singing. Basic course for music majors and minors. Text—Smith and Krone: Fundamentals of Musicianship Book I. Prerequisite: Music 1A, or the equivalent. Students not able to pass the departmental entrance examination in the fundamentals of music will take 1A without credit in preparation for this course.

Fall and Spring (2)

## 1C-1D Advanced Music Reading and Ear Training L. D. Smith

Tonal work in minor keys; modal scales; dissonant triads and seventh chords; interval feeling in all chords; rhythmic progression and elementary forms; rhythmic, melodic and harmonic dictation. Prerequisite: Music 1B.

Year course (2-2)

## L2A String Instrument Class

Leib

Beginner's class in violin, viola, cello and string bass. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.

Fall and Spring (1)

## L3A Woodwind Instrument Class.

Leib

Beginner's class in oboe, clarinet, flute and bassoon. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.

Fall and Spring (1)

## 4A-4B Elementary Harmony

Springston

Scale construction, intervals, by-tones and diatonic harmonies. Transposition and original composition in the simpler forms. Text—Alchin: Applied Harmony Vol. I. Prerequisite: Music 1A-1B, or the equivalent, and at least one year of piano study.

Year course (3-3)

## L6A Brass Instrument Class

Leib

Beginner's class in trumpet, French horn, baritone, trombone and tuba. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.

Fall and Spring (1)

## L7A Music Materials for the Elementary School

L. D. Smith

Study of the song material in the state music texts and in the supplementary texts. Appreciation materials applicable to the elementary school. Required course for all general elementary credential students. Prerequisite: Music 1A.

Fall and Spring (3)

## 8A-8B Keyboard Harmony and Accompanying

Springston

Practical application of the principles of elementary harmony. Prerequisite one year of piano study. At least one year of high school harmony is desirable.

Year course (2-2) (Offered in 1941-42 and alternate years)

## 11A-B-C-D Women's Glee Club—Treble Clef

L. D. Smith

Entrance upon examination.

Fall and Spring (1-1)

## 12A-B-C-D Men's Glee Club

Springston

Entrance upon examination.

Fall and Spring (1-1)

## 13A-B-C-D Orchestra

Leib

Permission of the conductor required for membership.

Fall and Spring (1-1)

## 15A-B-C-D A Cappella Choir

D. F. Smith

Entrance upon examination.

Fall and Spring (1-1)

## \*L16A-L16B-L16C-L16D Individual Study of an Orchestral Instrument.

Fall and Spring (1-1)

\* See page 118, conditions under which credit may be given for music study under private instructors.



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

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

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

**26A-B-C-D Band** Leib  
 Permission of the conductor required for membership.  
*Fall and Spring (1-1)*

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

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

**29A-B Class Voice** D. F. Smith  
 A class for beginners in the vocal field taking up the problems of breath control, tone placement, articulation and enunciation. Frequent performance before class required. Limited to 15.  
*Year course (1-1)*

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

UPPER DIVISION COURSES

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

\* See page 118, conditions under which credit may be given for music study under private instructors.

**106A Counterpoint** D. F. Smith  
 Study of the five species of counterpoint with much practice in writing in such forms. Application of contrapuntal style to modern composition. Prerequisite: Music 4A-4B.

*Fall (2) (Offered in 1941-42 and alternate years)*

**107A Form and Analysis** D. F. Smith  
 Aural and visual analysis of music forms through a consideration of structure, harmonic content, and style. Prerequisite: Music 105A-105B.  
*Spring (2) (Offered in 1941-42 and alternate years)*

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

**112A-B-C-D Men's Glee Club** Springston  
 Entrance by examination.  
*Fall and Spring (1-1) (A maximum of 2 units in glee club may be counted toward the A.B. degree)*

**113A-B-C-D Orchestra** Leib  
 Permission of the conductor required for membership.  
*Fall and Spring (1-1) (A maximum of 4 units in orchestra may be counted toward the A.B. degree)*

**115A-B-C-D A Cappella Choir** D. F. Smith  
 Entrance by examination.  
*Fall and Spring (1-1) (A maximum of 2 units in A Cappella choir may be counted toward the A.B. degree)*

**\*L116A-L116B-L116C-L116D Advanced Individual Study of an Orchestral Instrument**  
*Fall and Spring (1-1)*

**\*L117A-L117B-L117C-L117D Advanced Individual Study of Voice**  
*Fall and Spring (1-1)*

**\*L118A-L118B-L118C-L118D Advanced Individual Study of Piano or Organ**  
*Fall and Spring (1-1)*

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

\* See page 118, conditions under which credit may be given for music study under private instructors.



## PHILOSOPHY

### 120A Vocal Conducting

D. F. Smith

The theory of vocal conducting together with practical experience gained from directing the college chorus. Prerequisite: Music majors with senior standing.

Fall and Spring (1)

### 121A Instrumentation

Leib

Arranging of music for full orchestra. Selected works of pupils to be performed by standard orchestras.

Spring (2)

### 126A-B-C-D Band

Leib

Permission of the conductor required for membership.

Fall and Spring (1-1) (A maximum of 4 units in band may be counted toward the A.B. degree)

### 130A-130B Chamber Music

Leib

String quintet and woodwind ensembles only. Permission of the instructor necessary for class membership.

Year course (1-1)

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

Credit may be allowed for private instruction in music under the following conditions:

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

## PHILOSOPHY

### LOWER DIVISION COURSES

#### 5A Introduction to Philosophy

Steinmetz

The recurring problems of philosophy and the making of the modern mind. Prerequisite: Sophomore standing, or consent of instructor.

Fall (3)

## PHYSICAL EDUCATION—MEN

### 5B Knowledge and Society

Steinmetz

Scientific method and the persistent topics of philosophy in their bearing upon the social problems of the day. Prerequisite: Philosophy 5A, except that sophomores planning to major in natural science may be admitted without prerequisite.

Spring (3)

### UPPER DIVISION COURSES

#### 105B Knowledge and Society

Steinmetz

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

Spring (3)

#### 120 Reflective Thinking (Logic)

Steinmetz

Analysis of fallacies, and the logic of argument and proof; also examination of reflective procedures in various fields of knowledge, and review of some psychological descriptions of thought. Prerequisites: Psychology 1A and Philosophy 5A.

Spring (3) (Offered in 1942-43 and alternate years)

#### 130 Conduct (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 1941-42 and alternate years)

## PHYSICAL EDUCATION

### Men's Department

Candidates for a teaching credential in physical education should refer to the statement "Admission to Teacher Training Curricula" on page 28. For the teacher training curriculum in physical education see page 43.

### 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 to his needs. Individual Adapted Activity sections to fit the special needs of the individual student are included. The content of the required two years is planned to give each student an opportunity to choose those sports which have carry-over value into after life. Opportunity is given all students to take part in the regular competitive sports program.

All lower division students are required to take one-half unit of physical education not including intercollegiate sports.

#### L1A-1B Freshman Activity

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

#### L1C-1D Sophomore Activity

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



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.

### Intercollegiate Sports

- L2A-L2B-L2C-L2D Golf Spring (1)  
 L3A-L3B-L3C-L3D Track Spring (1)  
 L4A-L4B-L4C-L4D Baseball Spring (1)  
 L5A-L5B-L5C-L5D Basketball Spring (1)  
 L6A-L6B-L6C-L6D Tennis Spring (1)  
 L7A-L7B-L7C-L7D Boxing Spring (1)  
 L8A-L8B-L8C-L8D Wrestling Spring (1)  
 L9A-L9B-L9C-L9D Cross Country Fall (½)  
 L10A-L10B-L10C-L10D Swimming Spring (1)  
 L11A-L11B-L11C-L11D Fencing Spring (1)  
 L13A-L13B-L13C-L13D American football Fall (1)  
 L13X-L13Y-L13Z Spring football Spring (½)  
 L14A-L14B-L14C-L14D Gymnastics Spring (1)  
 L15A-L15B-L15C-L15D Badminton Spring (1)

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

### 30 Emergencies

C. R. Smith

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)

### L53 Physical Education in the Elementary School

Schwob

The content of the State program in physical education forms the basis of the course. Two lectures, two one-hour laboratory periods per week. May be taken as a substitute for 1D.

Required of all candidates for the elementary school credential and the special credential in physical education.  
 Fall and Spring (2½)

### L62A Gymnastic Activities

C. E. Peterson

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) (Offered in 1941-42 and alternate years)

### L62B Gymnastic Activities

C. E. Peterson

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) (Offered in 1941-42 and alternate years)

### L66 Playing Rules of Modern Games

C. R. Smith

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

Fall and Spring (1)

### L72 Principles of Physical Education

Calland

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

### L154 Organization and Administration of Secondary Physical Education

Gross

Study of general and specific problems that confront physical education departments in junior and senior high schools and in colleges. Prerequisite: Physical Education L72.

Spring (3)

### L155 Applied Anatomy and Kinesiology

Young

A scientific analysis of the structure, function and relationship of the organs, bony cavities, bones and joints of the skeletal, muscular, nervous and circulatory systems. In addition, the student will apply the results of the analysis in the selection of activities in relation to mechanical strength and durability as influenced by anatomical factors. Prerequisite: Zoology 20, or 108.

Spring (3) (Offered in 1941-42 and alternate years)

### L156A Sports Methods

Gross, C. R. Smith

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

Fall (2) (Offered in 1942-43 and alternate years)

### L156B Sports Methods

Young, C. E. Peterson

Methods of teaching those sports most adaptable to the intramural and recreational programs: golf, handball, soccer, speedball, volley ball, badminton, archery, tennis, swimming, track, etc. Prerequisite: P. E. L 66.

Spring (2) (Offered in 1942-43 and alternate years)

### 161 Folk Dancing

Schwob

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

Spring (2) (Offered in 1941-42 and alternate years)



**L166 Technique of Officiating**

Gross

Review of material presented in Physical Education L66. 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. Prerequisite: Physical Education L66.

Spring (2)

**L168 Physiology of Exercise**

Bennett

A non-laboratory course emphasizing the relation of physiology to muscular exercise in physical activities. Prerequisite: Zoology 20 or the equivalent.

Spring (2) (Offered in 1942-43 and alternate years)

**L169 Technique of Teaching Activities**

Young

Directed leadership in activities. A course preliminary to practice teaching in which students are given opportunity to develop teaching techniques in an orderly, detailed, directed, and supervised experience. Requirements include the handling of classes, construction of tests, lesson plans and preparation of a syllabus. One hour of lecture, and two hours of laboratory per unit. Prerequisite: Admission to teacher training.

Spring and Fall (1-2)

**L170 Recreational Leadership**

Shafer

Fundamentals of recreational leadership developed by instruction in club and camp activities, the study of school recreational needs and facilities, and of civic recreation. Open to all upper division men and women. Recommended to students interested in social service.

Spring (2) (Offered in 1942-43 and alternate years)

**L180 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)

**L190 Individual Program Adaptation**

Young

An introductory course dealing with the analysis and evaluation of aims, techniques, and procedures in the preventive and corrective physical education program. Special emphasis will be given to such problems as survey of the situation, recognition of divergencies, selecting and assigning of students, instructional programs, motivation, follow-up, teacher limitations, and public relations. Prerequisite: P. E. 155, Zoology 20, and senior standing.

Fall (3) (Offered Fall 1942-43 and alternate years)

**WOMEN**

Women's Department Candidates for a teaching credential in physical education should refer to the statement "Admission to Teacher Training Curricula" on page 28, and to the outline for the A.B. Degree with Special Credential in Physical Education on pages 45 and 46.

**LOWER DIVISION COURSES**

Two hours of directed physical activity are required throughout the freshman and sophomore years. Freshman students may choose courses from the following, L1A, L1B, L1C. Sophomore students may choose from all activity courses offered.

**L1A Fundamental Skills**

Bennett

Practice in efficient fundamental body movements.

Fall and Spring (1)

**L1B Folk Dancing**

Pease

**L1C Rhythmic Skills**

Pease

Fundamental movements, simple dance forms and improvisation. Both L1B and L1C required of all women candidates for the special credential in physical education.

Fall and Spring (1)

Sophomores may elect from the following: Physical Education Staff

**L2A-L2B Folk Dance**

**L3A-L3B-L3C-L3D Modern Dance**

**L4A-L4B Social Dance**

**L5A-L5B Archery**

**L6A-L6B Badminton**

**L7A-L7B Golf**

**L8A-L8B-L8C-L8D Seasonal Sports**

**L9A Stunts and Tumbling**

**L10A-L10B-L10C Swimming and Life Saving**

**L11A-L11B Tennis**

**L12A-L12B Advanced Modern Dance** Laboratory experiments in advanced choreography and percussion accompaniment. For men and women. Prerequisites 1C and 3A for women, 1C for men.

Fall and Spring (1-1)

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

Bennett

**51 Safety Education**

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

Fall (1) (Offered in 1942-43 and alternate years)



**L53 Physical Education in the Elementary School**

Schwob

The content of the State program in physical education forms the basis of the course. Two lectures, two one-hour laboratory periods per week. Required of all candidates for the elementary school credential and the special credential in physical education.

*Fall and Spring (2½)*

**Sports**

1. The individual activities, swimming, tennis, golf, archery, badminton and dancing are offered through the year. Candidates for the special credential in physical education select *one* as a major activity and two others as minors. Skills in the activities thus selected must be maintained as prerequisite to the senior course, Physical Education L185. (See page 125.)

2. The seasonal group sports are volley ball, basketball, hockey, speedball or soccer, and baseball. Candidates for the special credential in physical education must participate in at least *two seasons of each*.

3. The Women's Athletic Association sponsors the intramural sports program. Under its direction competition in dual and group games is promoted throughout the year. Open to all college women.

**UPPER DIVISION COURSES**

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

**L153 Administration of Secondary Physical Education**

Schwob

Study of administrative problems applied to high school situation including organization of instructional and recreational programs, classification of students, and routine administration.

*Spring (2) (Offered in 1942-43 and alternate years)*

**L155 Applied Anatomy and Kinesiology**

Young

A scientific analysis of the structure, function and relationship of the organs, bony cavities, bones and joints of the skeletal, muscular, nervous and circulatory systems. In addition the student will apply the results of the analysis in the selection of activities in relation to mechanical strength and durability as influenced by anatomical factors. Prerequisite: Zoology 20 or 108.

*Spring (3) (Offered in 1941-42 and alternate years)*

**L157A-L157B Sports Methods**

Shafer

Practice for skill, study of rules, and of coaching methods. Prerequisite: A season's experience in at least four of the following sports: volley ball, basketball, hockey, speedball, soccer, baseball.

*Year course (2-2)*

**L160 Principles of Teaching Gymnastics**

Schwob

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

*Fall (2) (Offered in 1941-42 and alternate years)*

**161 Folk Dancing**

Schwob

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

*Spring (2) (Offered in 1941-42 and alternate years) Open to men and women.*

**L164A-L164B Methods in Modern Dance**

Pease

Laboratory experiments in advanced choreography and percussion accompaniment. Historical survey and practical experience in production techniques and teaching methods. Two activity periods and one lecture per week. For men and women. Prerequisites same as for L12A.

*Year course (2-2) (Offered in 1942-43 and alternate years)*

**L168 Physiology of Exercise**

Bennett

A non-laboratory course emphasizing the relation of physiology to muscular exercise in physical activities. Prerequisite: Zoology 20 or the equivalent.

*Spring (2) (Offered in 1942-43 and alternate years)*

**L169 Technique of Teaching Activities**

Schwob

Observation, lesson planning and teaching in college classes.

*Fall and Spring (3)*

**170 Recreational Leadership**

Shafer

Fundamentals of recreational leadership developed by instruction in club and camp activities, the study of school recreational needs and facilities, and of civic recreation. Open to all upper division men and women. Recommended to students interested in the recreational aspects of social service.

*Spring (2) (Offered in 1941-42 and alternate years)*

**L173 Principles of Physical Education**

Schwob

A study of the more significant influences shaping the trend of physical education in the past and present. General philosophy and principles of physical education and its relation to general education.

*Fall (2) (Offered in 1942-43 and alternate years)*

**L177 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.

*Spring (2) (Offered in 1942-43 and alternate years)*

**L185 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 124.)

*Fall (1)*



## PHYSICAL SCIENCES

The courses offered in the Physical Sciences are listed below. See pages listed after each subject for a more complete description of the offerings under that designation. Astronomy, see page 73; Chemistry, page 77; Geology, page 103; Physical Science, page 126; and Physics, page 126.

## PHYSICAL SCIENCE

*Lower division preparation for the liberal arts major in physical science and for the junior certificate: Fulfillment of the departmental requirements for upper division work in at least two of the following sciences: Astronomy, chemistry, geology, and physics. Recommended: A reading knowledge of French and German.*

*Liberal arts major (upper division) in physical science, required: 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.*

## LOWER DIVISION COURSE

## 1A Introduction to Physical Science

Watson

A survey course dealing with the nature of man's physical universe. Emphasis will be upon materials chosen from topics in astronomy and physics to show the nature and development of the scientific method and man's use of energy. Not open to students who have had high school or college physics or astronomy. May be taken with or without plans to continue with 1B.

*Fall and Spring (3)*

## 1B Introduction to Physical Science

Watson

A continuation of Physical Science 1A. Emphasis will be upon units chosen from geology and chemistry to show the origins of natural materials and their use by man in the modern world. Not open to students who have had high school or college chemistry or geology. May be taken with or without credit in Physical Science 1A.

*Fall and Spring (3)*

## L40 Man and His Physical World

Watson

A brief survey of the nature of the scientific method and of selected topics in physical science. Materials will be chosen from physics, chemistry, astronomy, and geology in order to give some background for an understanding of the relations of physical science to modern life. Not open to students who have had both high school or college physics and chemistry or either of these subjects together with either astronomy or geology. Open only to students enrolled in a two-year curriculum.

*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 110A-110B. Six of the twenty-four units may be elected in related subjects and deviations from these requirements may be made on consultation with the chairman of the department.*

## LOWER DIVISION COURSES

## 1A-1B Mechanics and Heat

Moe, Worley

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 Electricity, Magnetism, Sound, and Light

Baird

A continuation of Physics 1A-1B for students in the sophomore year. 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 1942-43 and alternate years)*

## 106 Optics

Worley

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

*Fall (3) (Offered in 1942-43 and alternate years)*

## 106L Optical Measurements

Worley

Laboratory work to accompany Physics 106.

*Fall (1) (Offered in 1942-43 and alternate years)*



# PHYSICS

## 107A-107B Electrical Measurements

Worley

Laboratory work designed to accompany Physics 110A-110B. Emphasis placed on the theory and use of electrical measuring instruments. Year course (1 or 2 units for the year) (Offered in 1941-42 and alternate years)

## 108 Modern Physics

Worley

An introduction to physical investigations of the last half-century. Atomic structure and quantum theory in the light of high-vacuum phenomena, series in optical spectra, natural and induced radioactivity, and allied subjects. Prerequisite: Eight units in physics. Spring (3) (Offered in 1942-43 and alternate years)

## 108L Modern Physics Laboratory

Worley

Laboratory, to accompany Physics 108. Spring (1) (Offered in 1942-43 and alternate years)

## 110A Introduction to Electricity and Electromagnetism

Worley

Elements of the mathematical theory of electrostatics, of magnetostatics and magnetism, and of steady and varying currents. Students are encouraged to accompany the course with 1 unit of laboratory work. Prerequisites: Eight units in physics, and Mathematics 3A-3B. Fall (3) (Offered in 1941-42 and alternate years)

## 110B Principles of Electromagnetism and Electronics

Worley

A more complete study and an extension of the material surveyed in Physics 110A, illustrated with practical applications. Prerequisites: Physics 110A and consent of the instructor. Spring (3) (Offered in 1941-42 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 1941-42 and alternate years)

## 112L Advanced Heat Laboratory

Moe

Laboratory work in advanced heat, designed to accompany Physics 112. Spring (1) (Offered in 1941-42 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 1941-42 and alternate years)

## 114L Sound Laboratory

Moe

Laboratory work in wave motion and sound, designed to accompany Physics 114. Fall (1) (Offered in 1941-42 and alternate years)

# PHYSIOLOGY AND POLITICAL SCIENCE

## 199 Special Study

Baird, Moe, Worley

Reading or work on special problems in physics. Admission by consent of the instructor. Credit and hours to be arranged in each case. Open to students who have completed at least eight units of work in the department with grade of A or B.

Fall and Spring (1 or 2-1 or 2)

## PHYSIOLOGY

### LOWER DIVISION COURSES

#### 1A Human Physiology

Crouch

A lecture course considering the functions of the human body. Prerequisites: Elementary chemistry and high school or college biology or zoology. Three hours of lecture per week. Summer (3) (Offered Summer Session 1941)

#### 1C Human Physiology

Crouch

A study of the human functions through laboratory experiments and demonstrations. Prerequisites: Physiology 1A completed or in progress. Six hours of laboratory per week. Summer (2) (Offered Summer Session 1941)

### UPPER DIVISION COURSES

#### 101 Cellular Physiology

Darsie

A study of the vital activities of protoplasm, stressing the various physicochemical relationships involved. Laboratory study of both plant and animal material will serve as an introduction to the methods of modern experimental biology. Two hours of lecture and six hours of laboratory per week. Prerequisite: One year of Life Science in college and three units of college chemistry. Additional training in chemistry and physics is desirable.

Fall (4) (Offered in 1942-43 and alternate years)

## POLITICAL SCIENCE

The minor in political science: from twelve to eighteen units of work is recommended. At least half the work should be chosen from upper division courses.

It is suggested that students who expect to major in political science plan their lower division work to include both Political Science 1A-1B and 71A-71B, and either Economics 1A-1B or History 4A-4B.

### 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)



**71A-71B American Government and Politics****Osborn**

71A—Governmental organization in the United States; the federal system, organization, powers and functions of the legislative, executive and judicial branches of the national government, and the expansion of its activities.

71B—Development of the means of democratic control of government in the United States; the history, motivation, methods and control of political parties; party machines; election systems; influence of minority groups; the lobby; the press.

This course is not open to freshmen.

Year course (3-3)

**UPPER DIVISION COURSES****101 American Institutions****Leonard**

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

All candidates for the bachelor's degree are required by state law to secure credit in this course, unless they have completed one of the following courses: History 171A-171B, 173A-173B, Political Science 113, 175A-175B. This course is offered only in the fall semester.

Enrollment is limited to students of junior or senior standing, except with the consent of the instructor.

Fall (2)

**111 Theory of the State****Leonard**

The nature of the State, its organization and activities, and its relation to the individual and to other states. Special attention will be given to recent developments in the field of political thought.

Fall (3) (Offered in 1942-43 and alternate years)

**113 American Political Ideals****Leonard**

Underlying theories and principles of American governmental policy.

Spring (3) (Offered in 1942-43 and alternate years)

**136A-136B Problems of the Pacific Area****Osborn**

Particular emphasis during the first semester on the development through the 19th Century of the governmental problems of the Far East, both internal and international. The second semester will be devoted to a consideration of the 20th Century aspects of these problems.

Year course (3-3)

**141 Theories of International Relations****Osborn**

The development of ideas concerning international relations from ancient through modern times. Theories of nationalism, imperialism, internationalism, and cosmopolitanism will be reviewed and their validity considered in the light of modern experience.

Fall (3)

**142 International Organization****Osborn**

Prewar attempts at international organization, the effect of the World War on ideas of international relationships, postwar attempts at organization. Special attention will be given to the organization and development of the League of Nations, its machinery, accomplishments and failures, and to national attitudes toward cooperation since the war.

Spring (3)

**143A-143B Principles of Public Administration in the United States****Osborn**

A study of the development of executive agencies in the American federal government and the relationship between these agencies and the changes in American concepts concerning the proper field of governmental activity.

Year course (3-3) (Offered in 1941-42 and alternate years)

**175A-175B—American Constitutional Development****Leonard**

A study of the work of the Convention of 1787, and of significant phases of American constitutional law.

Year course (3-3) (Offered in 1941-42 and alternate years)

**PSYCHOLOGY**

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

**LOWER DIVISION COURSES****1A General****Burlingame**

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****Burlingame**

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**

Applications of psychology to problems of the individual in learning, making social adjustments, choosing a vocation, developing desirable personal traits, and achieving success and happiness. 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****Peiffer**

Applications of psychology to a wide range of problems encountered by the man in business. Motives, attitudes, habits, and traits in their rela-



tion 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)

#### L40 Psychology and Life

An elementary survey of normal adult psychology, focused upon psychological principles in relation to life situations. Open only to students enrolled in a two-year curriculum.

Fall and Spring (3)

#### UPPER DIVISION COURSES

##### 102A Genetic: Child

Steinmetz

This course represents the main effort of the psychology department to provide an orientation toward parenthood. The course has been developed in recognition of the need for the establishment of parental-domestic adjustment through the study of child growth and development from the prenatal period to adolescence and through common knowledge by parents of relevant material in genetics and child psychology; emphasis is practical.

Fall (3)

##### 102B Genetic: Adolescence

Survey of the wealth of knowledge in physiology, sociology, and psychology recently made available to parents and professional workers with youth just before, during, and after puberty.

Spring (3)

##### 105 Mental Testing

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 102A. Recommended: Psychology 1B, 102, Education 140.

Fall (3)

##### 118 Mental Hygiene

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 or Spring (3)

##### 145 Social Psychology

Steinmetz

Personality as it develops in relation to social environment. Suggestion, imitation, leadership, the crowd, public opinion, social control, prejudice,

propaganda, sex differences, race differences, etc. Prerequisite: Psychology 1A. Recommended: Psychology 4A.

Fall and Spring (3)

##### 150 Abnormal Psychology

Steinmetz

The relation of psychology to the psycho-neuroses and insanity; the appearance of abnormal traits in incipient stages of mental disturbances. Methods of diagnosis and early treatment.

Spring (3)

##### 160 Experimental Psychology of Learning

Introduction to instrumental and comparative psychology and to methods of research in the development of behavior theory. Prerequisite: 5 units of other work in the department and consent of the instructor; required of those seeking a major.

Fall (3)

#### SECRETARIAL TRAINING

##### LA Business Mathematics

Bromley

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

Fall and Spring (1) (No degree credits in Liberal Arts curricula)

##### L1A-L1B Typewriting

Amsden

A rapid development of a thorough command of a keyboard by the touch method. The acquisition of speed and the artistic arrangement of typewritten material with special reference to commercial forms, tabulation and billing; specifications, legal forms, and preparation of manuscripts; transcription, mimeographing, etc. Eight hours lecture and laboratory practice.

Year course (3-3) (No credit will be counted toward A.B. degree requirements except in the curricula leading to the Business Education credential)

##### L2A Typewriting

Amsden

A short course designed for those not wishing to enter the business office but desiring a knowledge of the use of the typewriter. Five hours laboratory practice.

Spring (2)

##### L3A Office Methods and Appliances

Wright

Practice and principles of office management, including organization, arrangement and operation. Study and use of modern office appliances such as the multigraph, mimeograph, filing devices, calculating and book-keeping machines. Prerequisite: Secretarial Training 1A or its equivalent.

Fall and Spring (3)

##### L5A-L5B Stenography

Amsden

An intensive course designed for the practical preparation of office secretaries. A thorough study of the Gregg System. Development of the



## SOCIAL SCIENCES

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)

## L6A-L6B Advanced Stenography

Amsden

Development of speed in writing and transcription. Advanced dictation on letter forms, legal forms, speeches, and literary and technical material.

*Year course (3-3)*

English in Business (See *English*, page 95)

## SOCIAL SCIENCES

*The courses offered in the Social Sciences are listed below. See pages listed after each subject for a more complete description of the offerings under that designation. Anthropology, see page 69; Economics and Commerce, page 80; Geography, page 100; History, page 106; Political Science, page 129; Social Science, page 134; and Sociology, page 135.*

## SOCIAL SCIENCE

*Lower division preparation for the liberal arts major in social science: Fulfillment of the departmental requirements for upper division work in at least three of the following sciences: Anthropology, economics, geography, history, political science, sociology.*

*Liberal arts major (upper division) in social science, required: Twenty-four units of upper division work including a concentration of twelve upper division units in one of the following fields and six units in each of two others: Anthropology, economics, geography, history, political science, sociology.*

*This major is available only to students who are preparing for graduate work in anthropology, political science, or sociology, and to those enrolled in certain preprofessional and other curricula. Official approval for candidacy for a degree with a social science major must be obtained from the dean of liberal arts.*

### LOWER DIVISION COURSES

## 1A Contemporary Political, Social and Economic Problems Greer

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. An attempt to introduce the student to sound methods of approach in dealing with these problems.

*Fall and Spring (\$)*

## 1B American Trends Since 1918

Greer

Main currents of American life since the World War. Stress on immediate background of modern institutions. Aims to familiarize students with the major events which have occurred during the lifetime of the present college generation.

*Fall and Spring (3)*

## SOCIOLOGY

## L40 Contemporary Problems

A survey of the major political, social, and economic forces in modern American life. Chief problems are analyzed in relation to their setting, and students are given sound methods of approach in dealing with them. *Open only to students enrolled in a two-year curriculum.*

*Fall and Spring (3)*

## L45 American Democracy

The structure and function of government, as it relates to individual Americans. Special emphasis on popular participation through voting, political parties, pressure groups, and public opinion. Prerequisite: Sophomore Standing. *Open only to students enrolled in a two-year curriculum.*

*Spring (3)*

## SOCIOLOGY

*Lower division preparation for the liberal arts major in social science with concentration in sociology: Sociology 50A, 50B; Economics 1A-1B and one of the following year courses: Anthropology 50A-50B, Political Science 1A-1B, 71A-71B. See requirements for the social science major, page 134.*

### LOWER DIVISION COURSES

## L40A Social Problems

Fay V. Perry

**L40A Social Problems**  
A survey of major present-day social problems, with the intent of broadening the student's interests, and preparing him to understand and work for conditions desirable to the society of which he is a part. The course has also the object of helping the student in solving his personal problems of adjustment to life-situations, in the family, the college, the business and social world. *Open only to students enrolled in a two-year curriculum.*

*Fall and Spring (3)*

## L40B Marriage and the Family

Fay V. Perry

**L40B Marriage and the Family**  
The purpose of this course is to prepare young people for successful marriage and family life. The development of the personality through family relationships, the choice of a life partner, and the social and economic factors involved in the establishment of a home, are given special emphasis. The importance of the family as a unit in larger social groupings is stressed, and both psychological and material factors which affect the welfare of family members are brought to the student's attention. *Open only to students enrolled in a two-year curriculum.*  
Prerequisite: Sophomore standing.

Spring (3)

## 50A Introduction to Sociology

**50A Introduction to Sociology**  
A study of modern social problems recognizing the geographic, economic, psychological, and sociological factors involved. Emphasis is on a scientific method of approach. An evaluation of various causes and solutions of problems is made.

Fall (3)

## Barnhart



**50B General Sociology**

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)*

**55 Marriage and Family Life**

**Fay V. Perry**

A psychological and sociological approach to the study of marriage and the family. Some of the topics considered are: relation of courtship to marriage; emotional maturity and marriage; eugenic aspects of marriage; college marriages; harmony in modern marriage; economic adjustment in marriage, parenthood. Prerequisite: Health Education 1 or 2; a biological science and Psychology 1A recommended. Not open to Freshmen.

*Fall and Spring (3)*

## UPPER DIVISION COURSES

**100. General Sociology**

**Barnhart**

A course in general sociology for upper division students. The development and use of the concepts of sociological analysis, such as human nature, the effects of isolation and social contacts upon the development of personality; social interaction; social processes; social forces; social control; collective behavior; and social progress. Not open to students who have credit for Sociology 50B.

*Spring (3)*

**105 Social Pathology**

**Barnhart**

A study of the alleged abnormal phenomena in society; family disorganization and personal demoralization; pathology of individual and group relationships and of economic, social, and cultural relationships.

*Fall (3)*

**106 Criminology and Penology**

**Barnhart**

The extent and characteristics of crime; consideration of physical, mental, economic, and sociological causes of crime; study of methods of penal discipline, prison labor, parole, and probation; programs of prevention.

*Spring (3)*

**108 The Family**

**Barnhart**

History of marriage and family as a social institution. Effects of various economic and social factors on the modern family; higher education and the birth rate; married women in industry and professions; causes of desertion and divorce and their sociological effects. Not open to students who have credit for Sociology 55.

*Fall (3)*

**109 Fields of Social Work**

**Barnhart**

A survey of the nature of social work and the various kinds of social work which are found in modern urban life. The student is familiarized with the various social agencies in the community, their problems and methods of work, by readings and field trips. Volunteer social work in some social agency recommended.

*Spring (3)*

**126 Social Reform Movements**

**Greer**

A study of organized efforts to change social institutions in the United States since 1865. Emphasis given to backgrounds, objectives, techniques, and relationship to democracy of each movement.

*Fall (3)*

**197 Urban Sociology**

**Barnhart**

A study of the structure and function of the modern city; types of neighborhoods; forms of recreation; social forces in a metropolitan area; types of urban personalities and groups; rural-urban conflicts of culture. Practical field studies required.

*Fall (3)*

**199A-199B Special Study**

**Barnhart**

The student is introduced to the methods and techniques used in the scientific investigation of society, such as the historical, statistical, case-study, personal history, survey, and other methods of social investigation. Actual practice in doing various types of field studies is required.

Designed exclusively for seniors with concentration in sociology in the social science major and for seniors pursuing the courses of study in the social work curriculum.

*Fall (1), Spring (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**

**Baker, L. P. Brown**

Intensive study of Spanish grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation; reading with oral discussion and résumé; 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 B. Those who have had two years of Spanish in high school should register for Spanish C. Those who have passed LA0B should register for Spanish B. No credit given for repetition of high school work.

*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 two years of high school Spanish, or its equivalent. Students with credit for three years of high



school Spanish, or its equivalent, should enter Spanish D, and will receive full credit.

*Year course (3-3)*

#### L40A-L40B Elementary

Baker

A course similar to Spanish A-B, but meeting only three times a week and giving only three units of credit a semester. Credit not given for Spanish L40A unless followed by Spanish L40B. No credit given for repetition of high school work. Open only to students enrolled in a two-year curriculum.

*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 1942-43)*

##### 104A-104B Spanish-American Literature

Phillips

A survey of the whole field of Spanish-American literature during the colonial, revolutionary and modern periods. Lectures, class reading, collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

*Year course (3-3) (Offered in 1944-45)*

##### 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 1943-44)*

##### 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)*

#### SPEECH ARTS

*Lower division preparation for the major in Speech Arts: Speech Arts 1A-1B, 55A-55B, and six units chosen from 1C-1D, 55C-55D, 60B, 63A-63B-63C-63D. Recommended: Aesthetics 1A-1B, 50; Art 52A, 94.*

*Liberal Arts major (upper division): Twelve units chosen from Speech Arts 108, 150, 155A-155B, 156A-156B, 163A-163B; and six units from Speech Arts 157A-157B, 175, or 163A-163B; and six units from English 117A-117B, 152A-152B. Recommended: English 110, 116B; French 105A-105B, 111A-111B; Physical Education 164A-164B; 105A.*

*Candidates for the teaching credentials in Speech Arts should refer to "Admission to Teacher Training Curricula" on page 28 or to the note regarding the Special Credential in Correction of Speech Defects on page 46.*

#### LOWER DIVISION COURSES

##### 1A Fundamentals of Public Speaking

F. L. Johnson, 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 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 Electro-Vox Recording Machine. Required of education majors who fail to meet speech requirements test. Private clinical assistance given to stutterers and lisps.

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



**L40 Fundamentals of Public Speaking****Peiffer**

Training in fundamental processes of oral expression; practice in organization and presentation of material; emphasis upon speech in daily situations, including public discussion, conversation, recitation, extemporaneous speaking, and short speeches for special occasions. *Open only to students enrolled in a two-year curriculum.*

*Fall and Spring (3)*

**55A-55B Dramatic Production****Jones**

A course for first and second year students in which, through participation, they acquire an understanding of certain dramatic periods and types studied in English literature. Individual and group expression coordinated and developed in production of scenes, acts, and plays—a fundamental drama course emphasizing modern trends. No prerequisite.

*Year course (3-3) (Offered in 1941-42 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. No prerequisite.

*Year Course (3-3) (Offered in 1942-43 and alternate years)*

**60 Argumentation and Debate****Peiffer**

Obtaining and organizing of evidence and the construction and use of the brief; study and discussion of current issues; the presentation of formal and informal debates. Attention to intramural and intercollegiate debating.

*Spring (3)*

**61A-61B-61C-61D Intercollegiate Debate****Peiffer**

*Year course, each year (1)*

**63A-B-C-D Verse Choir****Jones**

Participation in verse speaking chorus to develop quality, range of tone, and ability in dramatic visualization of poetry. Required for speech arts credential.

*Fall and Spring (1-1)*

## UPPER DIVISION COURSES

**108 Art of Interpretation****Pfaff**

Analysis of various types of literature. Material chosen will emphasize the finer techniques of oral expression to develop the imagination, the emotional power, reading skill and platform deportment in its varied phases. Prerequisite: One year of College Speech or equivalent.

*Spring (3)*

**110 Recreational Reading****Dickhaut**

See English, page 96.

**116B The Elizabethan Drama****Adams**

See English, page 97.

**117A-117B Shakespeare****F. L. Johnson**

See English, page 97.

**150 Phonetics****Pfaff**

Auditory and kinaesthetic analysis of the sounds of the English language. Valuable as a corrective course in pronunciation and articulation. Required of speech majors and those seeking Speech Correction Credential.

*Fall (2)*

**152A Survey of Drama: Comedy**

See English, page 98.

**152B Survey of Drama: Tragedy**

See English, page 98.

**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 1941-42 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 1942-43 and alternate years)*

**157A-B Radio Production****Jones, Swanson**

Preparation and production of radio plays and various types of radio material.

*Fall and Spring (3-3)*

**163A Rhythm, Pantomime and Choric Verse****Jones**

A course combining bodily movement with group speaking. Presents the fundamentals of rhythm and pantomime in different forms of dramatic expression.

*Spring (3) (Offered in 1941-42 and alternate years)*

**163B Advanced Rhythm, Pantomime and Choric Verse****Jones**

Continuation of above.

*Spring (3) (Offered in 1942-43 and alternate years)*



**175 Major Speech Disorders****Pfaff**

Clinical survey of newest methods of speech correction with special emphasis given to stammering and cleft-palate speech. One of required courses for Special Corrective Credential.

Spring (3)

**ZOOLOGY**

Lower division preparation for the liberal arts major in zoology: Zoology 1A, 1B, and high school chemistry or Chemistry 1A-1B. Recommended: German or French, Botany 2A, 2B, 4.

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, chemistry, physics, physiology or bacteriology.

Students preparing to teach science in the junior high school should try to include courses in zoology, botany, physiology, bacteriology, physics, chemistry (at least high school chemistry). Courses designed to help the student get acquainted with wild life of the region should be included. Recommended: Botany 4, 104, 102; Zoology 112, 113A, B, C, D, 121.

**LOWER DIVISION COURSES****1A General****Harwood and Engler**

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 him with the fundamental facts and theories of biology as they pertain to animal life. Two lectures or recitations and six hours of laboratory per week. Students who have credit for Biology 10A-10B receive no credit for Zoo. 1A but receive credit for Zoo. 1B.

Fall (4)

**1B General****Harwood and Engler**

A continuation of 1A. The structure, relationships, and classification of the chordates. Two lectures and six hours of laboratory per week. Prerequisite: Zoology 1A or Biology 10B.

Spring (4)

**20 Anatomy and Physiology****Crouch**

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

Fall or Spring (3)

**UPPER DIVISION COURSES****100 Embryology****Johnson**

The development of vertebrates as illustrated by the frog, chick, and pig. Three hours of laboratory and three hours of lecture and quiz per week. Prerequisite: Zoology 1B or Biology 10B.

Spring (4)

**100D Microscopic Technique**

Introduction to methods of preparation of tissues for microscopic study. Three hours of laboratory per week. Prerequisite: elementary chemistry.

Spring (1)

**101 Cellular Physiology****Darsie**

A study of the vital activities of protoplasm, stressing the various physiochemical relationships involved. Laboratory study of both plant and animal material will serve as an introduction to the methods of modern experimental biology. Two hours of lecture and six hours of laboratory per week. Prerequisite: One year of Life Science in college and three units of college chemistry. Additional training in chemistry and physics is desirable.

Fall (4) (Offered in 1942-43 and in 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 Biology 10B.

Fall (4)

**108 Human Anatomy****Crouch**

A study of human structure through the use of models, prepared dissections, and microscopic slides. Prerequisite: high school biology, Biology 10A, 1, or Zoology 1A. Two hours of lecture and three hours of laboratory per week. Required of prenursing students. Not open to premedical students.

Spring (3)

**112 Marine Invertebrates****Johnson**

Identification and study of behavior and life histories of invertebrates of the San Diego region. Frequent collecting trips to the beaches required. Prerequisite: Zoology 1A or Biology 10B. One hour of lecture and six hours of laboratory or field work per week.

Fall (3) (Offered in 1941-42 and alternate years)

**113A Taxonomy and Natural History of the Mammals****Harwood and Engler**

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

Spring (1) (Offered in 1942-43 and alternate years)

**113B Ornithology****Crouch**

The study and identification of birds, especially those of the Pacific Coast and the San Diego region. One hour of lecture and six hours per week of laboratory, or field excursions. Prerequisite: Zoology 1B or Biology 10B.

Spring (3) (Offered in 1942-43 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 1941-42 and alternate years)



**113D Natural History of Fishes****Harwood**

Lectures, laboratory, and field work to acquaint the student with the groups of fishes, their habits and economic importance.

*Fall (1) (Offered in 1942-43 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**

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

*Spring (2) (Not offered in 1942-43)*

**121 Entomology****Harwood**

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

*Spring (4)*

**126 Medical Entomology****Harwood**

The role of insects and other arthropods in transmission and causation of human diseases. Three hours of laboratory and one hour of lecture per week. Prerequisite: Zoology 1A or Biology 10B.

*Fall (2) (Offered in 1941-42 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 1941-42 and alternate years)*

**199 Special Study****The Staff**

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

*Fall and Spring (1 or 2)*

**FACULTY**

For the Year 1940-1941

WALTER R. HEPNER, Ed.D.—President.

JOHN R. ADAMS, Ph.D.—Professor of English.

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