SAN DIEGO STATE COLLEGE BULLETIN 1 9 3 9 - 1 9 4 0

ANNOUNCEMENT OF COURSES

VOLUME 27 NUMBER 2 JUNE, 1939

SAN DIEGO STATE COLLEGE SAN DIEGO, CALIFORNIA



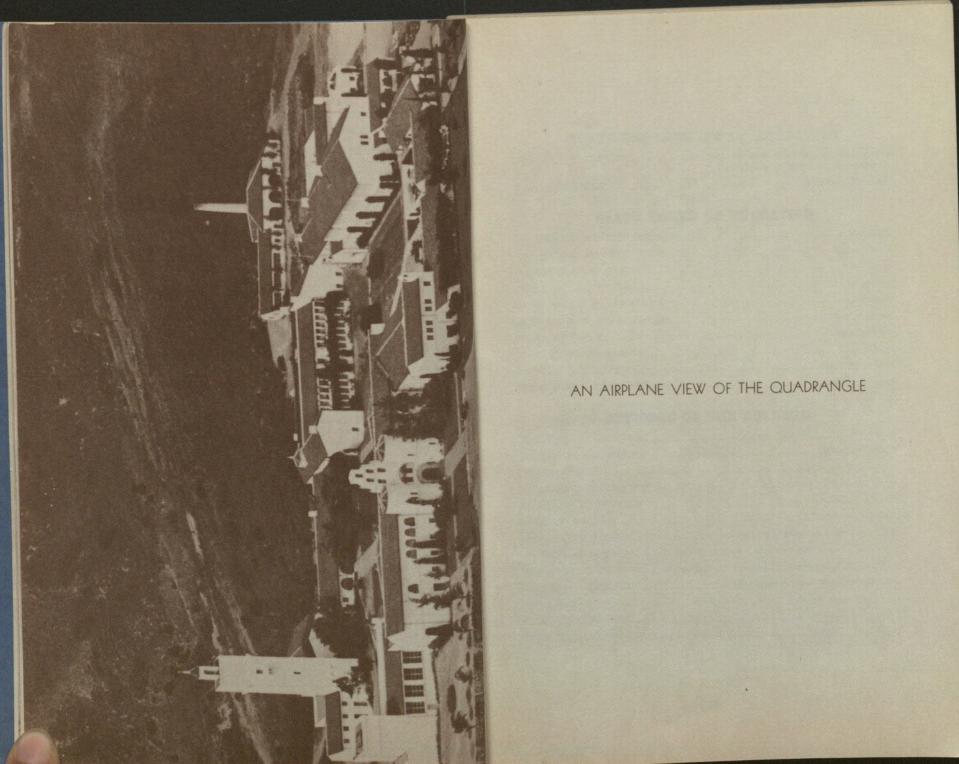
THE ACADEMIC BUILDING

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CALENDAR 1939-1940

SUMMER SESSIONS, 1939.

Term I, six weeks, June 19-July 28. Term II, three weeks, July 31-August 19.

FALL SEMESTER, 1939-1940.

28-Applications for Admission for the Fall August Semester must be filed on or before this date.

6, 7, 8-Orientation and Testing Program for all September New Students (Attendance required, three full days). Aptitude Test-8:00 A.M., September 6. Fundamentals Test-1:00 P.M., September 8.

9-Admission Day-Offices closed. September 11-Registration and payment of fees. September

12-Instruction begins-late registration fee be-September comes effective.

November 30 and Dec. 1-Thanksgiving Day Recess.

15-Last day before Christmas Recess begins. December

2-Classwork resumes. January 18-25-Mid-Year Examinations. January

SPRING SEMESTER, 1939-1940.

12-Applications for admission for the Spring January Semester must be filed on or before this date.

26-Executive Committee Meeting at 1:00 P.M. January 27-Orientation for all New Students (Attend-January

ance required). Aptitude Test-8:00 A.M., January 27.

Fundamentals Test-1:00 P.M., January 31.

29-Registration and payment of fees. January

(7)

January

30-Instruction begins-late registration fee becomes effective.

February

22-Washington's Birthday Holiday.

April

1-5 incl.—Easter Recess.

April

28-Founder's Day.

May

30-Memorial Day Holiday.

May 29-June 6 incl.

-Final Examinations.

June

7-Annual Commencement.

SUMMER SESSIONS, 1940.

Term I, six weeks, June 17-July 26.

Term II, three weeks, July 29-August 17.

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 opened its doors in 1898.

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

The four-year curricula, leading to an A.B. degree with a major in education, were established in 1923. 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. 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 fifteen was finally reached; art, chemistry, commerce, economics, education, English, geography, history, mathematics, music, physical science, physics, Romance languages, social science 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 fifteen 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 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 Training 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 training 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 \$ semester, and a somewhat similar arrangement exists at the Woodrow Wilson Junior High School for students who are preparing to teach junior high and special secondary school subjects. Students preparing to teach only special secondary school subjects may be assigned to one of the senior high schools.

The Library

The library facilities of this college are noteworthy for an institution of its size. The library consists of well over 60,000 volumes selected to meet the requirements of a modern educational institution. Seven professionally trained librarians are available to render assistance to students in their reading and reference work.

The Training School Library, representing a collection of 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 with parents or guardians. dents 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 a local 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 carefully select these activities in order that he may profit by these extra-class experiences without lowering his standards of scholarship. The Student Handbook, available at time of registration, gives information concerning activities which include organizations in every department of the college, 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 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 Service is maintained by the college as a clearing house of employment information for employers of State College graduates and other students leaving college before graduation.

Included among the services are liberal arts placements, teacher place-

ments, and part-time jobs both on and off the campus.

All official student contacts with the Service should be made through the Placement Secretary. Employers may contact either the Placement Secretary or one of the following:

Liberal arts and industrial placements, Mrs. Frances Torbert. Teacher placement, Dr. Raymond C. Perry. N.Y.A., Dean Evelyn Miller, Dean C. E. Peterson.

Alumni Association

The college has an active Alumni Association. Since its reorganization in March, 1921, the association has steadily gained in membership. The annual Homecoming is an important event each year; other meetings take place on dates of important athletic contests. The association also sponsors the organization of Aztec clubs in various communities. Information concerning the association may be obtained by writing the secretary in care of the college.

FEES, EXPENSES, AND LOAN FUNDS

Probable Expenses for One Semester

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

A Partial Estimate of Expenses

One Semester		
Fees and Deposits Books Board and Room	Minimum \$ 20.00 12.00 125.00	Maximum \$ 27.50 18.00 175.00
Incidentals: Transportation Lunches (daily in cafe)		20.00 50.00
Average Fraternity Initiation and pin \$15.00 Dues and Assessments 6.00 per semester Sorority Initiation and pin 15.00 Dues and Assessments 10.00 per semester	Territoria	20.00
Miscellaneous 500	The section of	

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

List of Fees and Deposits (Subject to Revision)

PAYABLE AT TIME OF REGISTRATION

Registration fees:	
² Resident students	\$ 6.50
Limited students (5 units or less)—per unit	2.50
Non-resident students—1st semester	75.00
2d and subsequent semesters	37.50
Late registration fee	1.00
General service deposit	3.00
Chemistry deposit (each course in chemistry)	5.00
Geology deposit (Geology 21A-21B)	1.00
Physics deposit	2.00
Associated Students fee	5.50
⁴ Associated Men Students or Associated Women Students fee	,50

PAYABLE WHEN SERVICE IS RENDERED

Late filing of registration book	\$1.00
Locker (key or combination padlock, each issue)	.25
College Bulletin (free to prospective students)	.20
Change of Program fee	50
Evaluation of record for advanced standing	2.00
Duplicate of Library Card	.10
Duplicate of registration book	.10
"Transcript of record (first copy free)	.50
Special Examination, each examination	.50
Special Examination, each standard test	.50

⁷State Teaching Credentials:

Elementary
Elementary and Junior High
Special Secondary
School Administration
Each credential

dential _____ 5.

PAYABLE DURING SEVENTH WEEK OF EACH SEMESTER

Towel,	Men	 1.50
Towel,	Women	 1.00

Additional laboratory fees and charges for certain courses ranging from 50 cents to \$7.50 per course are payable during the seventh week of each semester. Consult the time schedule for a list of these fees. A penalty of \$1.00 is charged for failure to pay at the required time.

Auditors pay same fees as students enrolled for credit.

² See page 18 for definition of residence for fee-paying purposes.

³ Paid by every student registered.

⁴ Paid by all students enrolled for more than 5 units. ⁵ Paid by all students entering with advanced standing.

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

accompanies the original.

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.

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.

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 reclassified as two-year students, and required to enroll in a two-year curriculum.

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.

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.

Applicants for advanced standing must show an average grade of C or better in all college work previously undertaken. No applicant may dis-

^{*} Grades of A or B or the equivalent.

^{**} For further particulars see Junior College Bulletin for 1939-40.

regard his collegiate record and apply for admission with freshman standing.

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

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

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 1939-40 will take place on September 11, and for the spring semester on January 29. 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 registration.
- 2. All entering students are required to take the College Aptitude Test. Exceptions may be made for students who register for five units of work or less, for former graduates of this college, and for graduates of approved four-year colleges.
- 3. 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 1A must be taken by all students whose tests indicate that they are not qualified for English 1B, even though they may not intend to enroll in English 1B. No student may enroll for his third semester of attendance unless he has qualified for English 1B or is enrolled in English 1A. Exceptions may be made for students transferring credit in English from other colleges.

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 period. 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.

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 (Junior College) students—Dean of Junior College Guidance.

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 during his life, and after his death, the residence of the mother as the residence of a minor student. In case of legal separation or divorce, the minor's residence is the residence of the parent with whom he makes his home. When the student reaches twenty-one years of age he may declare his own residence.

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.

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 Junior College curricula by choice or because they have failed to meet the scholarship standards required for regular status.

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 permitted to enroll for more than 17 units,* and all other students are limited to 18 units.*

^{*} In addition to physical education.

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.

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.

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 gradepoint 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. In the regular established courses of their departments, they shall not be held to regular attendance, 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.

^{*} In addition to physical education.

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 and Correspondence Courses

An extension program, covering a wide range of offerings, is made available each semester through faculty cooperation. Further particulars may be secured by addressing the Chairman of the Extension Committee. No courses are offered by correspondence.

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 be taken with the rank of senior. At least 12 units must be taken in the fall or spring semester of the final year before graduation; 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

ouplose married and an arrangement of the second of the se		
Physical Education	2	units
Health Education 1 or 2	2	units
English	6	units
Psychology	3	units
*Foreign Language		
Mathematics A and B or high school algebra and geometry0	4	units
Mathematics A and B of high school algebra and scomes?	14	units
Social Sciences	14	nnite
Natural Sciences	TI	umits
*Year-course in foreign language or in mathematics, or in phil-		
osophy (This year-course is an additional requirement to	e	muita
those listed above)	0	units
Lower division subjects for the minors, unless included in one of the above requirements. See pages 25 or 28	12	units
Lower division subjects required for the major. See pages 26 o	r 2	7.
Electives to make total of 64 units.		

Explanation of Lower Division Requirements

English This requirement may be satisfied either in the freshman year or in the sophomore year. Courses are to be chosen from the following: English 1A, 1B, 1C, 2, 3, 52A, 52B, 56A, 56B.

Psychology Psychology 1A.

Foreign Languages At least 15 units in not more than two languages are required in the lower division, except that only 10 units in a modern language are required in the commerce major and no language is required

^{*} Not required in the teacher training curricula.

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. A minimum of two high school year-courses is acceptable in any language except Latin, in which a year-course is permissible.

Social Sciences¹ Fourteen units chosen from two or more departments are required in this field. All students must present credit for Social Science 1 or for an acceptable equivalent.

- (a) 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, 12; History 4A-4B*, SA-8B*; Political Science 1A-1B*, 71A-71B*; Social Economics 50, 55.
- (b) 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 Sciences¹ Fourteen units chosen from 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 1 or a year course in high school or college chemistry or physics,
- (c) Additional lower division courses to meet the natural science requirement must come from the following list and must include one of the laboratory courses marked with an asterisk. High School courses: a maximum of two years (6 units) of third and fourth year courses in botany, chemistry,* physics,* physiology, zoology and advanced biology may be used to satisfy the natural science requirement. College courses: Astronomy 1, 9, 11; Biology 1, 10A-10B;* Botany 2A,* 2B,* 4; Chemistry 1A,* 1B,* 7-8;* Geography 1 or 3 (only one course may be counted toward requirement); Geology 1A, 1B,* 2A, 2B; Physical Science 1; 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 A) and high school plane geometry (or Mathematics B).

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

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

Mathematics: D, 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 below and for teaching minors on page 28.

Lower Division Preparation for the Major See description of requirements for teaching majors on page 27. 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 62 to 123).

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 and zoology and qualify for graduate work in these fields in recognized American colleges and universities. Completion of the requirements of these curricula also enables the graduate to satisfy undergraduate requirements for the general secondary credential which, with graduate work, will enable the holder to teach in a senior high school or junior college.

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

UPPER DIVISION

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, mathematics, music, philosophy, physics, political science, psychology, 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. 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 62 to 123.

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; 115A-115B or Education 107, 121, 130, and Psychology 102.

Majors The specific requirements for each major are listed at the beginning of each departmental division among the description of courses. (See pages 62 to 123.) 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 junior standing or the A.B. degree in Liberal Arts: Art 7, 14A; Accounting 15A, 15B, 16A, 16B, 65A, 65B; Business Economics 1A, 1B; Economics 129, 163; Education, all courses except those listed as available for credit toward a minor (see Education minor above; Engineering 22; English 1A; Journalism 53A, 53B, 153A, 153B; Library Science 10; Merchandising, all courses; Music 1A, 2A, 3A, 6A, 7A, 16A-B-C-D, 17A-B-C-D, 18A-B-C-D, 28A-28B, 116A-B-C-D, 117A-B-C-D, 118A-B-C-D; Physical Education, all courses except 1A, 1B, 1C, 1D, 30, 51, 161, 164A, 164B, 170; Secretarial training, all courses.

All courses which are offered specifically to students taking two-year completion courses leading to the Associate of Arts degree. See definition of *Two-year* students, page 19.

Professional and Preprofessional Courses. See pages 49 to 61.

Specific Upper Division Requirements for the Teacher Training Curricula

Admission to the Teacher Training Curricula Students who have been in regular attendance at the college should make application for admission to the teacher training curricula during the final semester of their sophomore year. Students who have completed three or more semesters of work in another college, upon transferring to San Diego State College, should make application as soon as they can meet the preliminary requirements.

The preliminary requirements which must be met before making application are:

- 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.)

- 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.
- Assurance of physical fitness by having passed a prescribed examination given by one of the college physicians.
- 5. If the student is to be a candidate for one of the special secondary credentials, he must furnish a recommendation from the chairman of that department stating that the student has ability and shows promise of teaching success in his field and that the department looks with favor upon his application.
- 6. The completion of the first two years of a given curriculum, or its equivalent, with a scholarship grade of C or better.

After the student has submitted evidence of having met the preliminary requirements in his application for admission to the 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 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 school 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 school credential fields of art, business education, music and physical education.

Teaching Major in English Candidates for the teaching major in the field of English are expected to show credit in English 1B and 1C and six elective units of lower division work; English 117 and 130A or 130B and at least six elective units in upper division work.

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) and physical education.

Candidates for the teaching minor in English must show credit in 1B and three elective units of lower division work; English 130A or 130B and three elective units of upper division work.

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 1A and 7A, 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-ID; 2A; 3A; 4A-4B; 6A, 8A-8B; 16; 17; 18; Aesthetics 1A-1B. In the upper division, not less than six units may be chosen from the following courses: Music 103A-103B; 106A; 116; 117; 118; 121A; Aesthetics 102A-102B.

Candidates for a teaching minor in physical education for women must show credit for Physical Education 1A, 1B, or 1C, 9A, and 53, one unit of sophomore activities, and Health Education 2 in the lower division; six units elected from Physical Education 102, 157A, 157B, 158, 160, 161, 164, or 170 in the upper division.

Candidates for a teaching minor in physical education for men must show credit for Physical Education 1A, 1B, 1C, 1D, 53, and 62A in the lower division; circuit and the lower division and th division; six units elected from Physical Education 156A, 156B, 161, 166, or 170 in the or 170 in the upper division.

Major and Minor Credential Requirements

- 1. For 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 school credential with the junior high school credential requires the completion of another teaching
- major than that required for a special secondary school credential.
- 2. For the elementary school credential two teaching minors are required. 3. For a special secondary school 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. The State Board of Education has placed a limitation of a maximum of forty units of credit in one subject matter field that may be applied toward the minimum of one hundred and twenty-four units required for the A.B. degree.

Preparation for Graduate Work Students who take the A.B. degree with only a special credential and who contemplate doing graduate work for a master's degree in an academic field at another institution of higher learning, will find it advantageous to use their electives to lay a foundation for that work. A student who plans to do graduate work in the field of his 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 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 ele mentary 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.
- B. The college offers the following credentials to persons meeting the qualifications designated for each:
 - 1. Diploma of Graduation: A diploma of graduation carrying with it any of the credentials the college is authorized to grant, or any (29)

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

- 2. 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.
- 3. Special Secondary Credentials in Speech Arts and Speech Correction: These credentials may be secured from the Commission on Credentials upon the recommendation of the candidate by the college. Courses prescribed by the State Board of Education are offered at the college. Candidates are advised to consult with the Dean of Education before entering upon their preparation for these credentials.

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

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) a methods course in the field of the teaching major; (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.

Limited Electives Credit for limited and vocational courses will be allowed in falcular lowed 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 to fulfill the requirements of any other credential pattern only after the student has received permission from the Dean of Education: Art 7, 14A; Business Economics 1A, 1B; Economics 129, 163; Engineering 22; English 1A. Journalis 18, 18; Economics 129, 163; Engineering 22; Engineering 2 lish 1A; Journalism 53A, 53B, 153A, 153B; Library Science 10; Merchandising all chandising, all courses; Music 1A, 2A, 3A, 6A, 7A, 16A-B-C-D, 17A-B-C-D, 18A-B-C-D, 28A, 20D, 1474-6-160b 18A-B-C-D, 28A-28B, 117A-B-C-D, 118A-B-C-D; Physical Education, all activity courses by 117A-B-C-D, 118A-B-C-D; Physical Education, patrices all activity courses beyond the requirements specified in curricular patterns: Secretarial Project of the requirements of the requirement of the requirements of the requirement of terns; Secretarial Training, all courses.

All courses which are offered specifically to students taking two-year completion courses leading to the Associate of Arts degree.

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. Transfer students should meet these requirements as soon as possible after enrolling in the college. See college calendar for dates when the fundamentals test will be given and page 26 in this bulletin for requirements for admission to teacher training.

A.B. Degree With Elementary School Credential

	TT
First Semester— FRESHMAN YEAR	Units
Art 6A, Structure	2
Biology 10A, Science of Life	3
English 1A,2 or 1B2 or 1C, Freshman English	3
Geography 1, Elements (Natural Science)	3
Physical Education, Freshman Activities	2
Health Education 1 or 2	2 2
Electives 8,4	2
Second Semester—	
Biology 10B, Science of Life	3
English 1B, 2, 3, 52A, 52B, 56A, 56B	
Geography 2, Regions (Social Science)	3
Music 1A, Music Reading and Ear-training	2
Physical Education, Freshman Activities	1
Electives 8, 4	5
	-
	32
First Semester— SOPHOMORE YEAR	
	2
Art 6B, Structure English (selected from 1B, 1C, 2, 3, 4A, 4B, 52A, 52B, 56A, 56B,	
English (selected from 1B, 1C, 2, 5, 4A, 4B, 52A, 52B, 56B, 56B,	3
unless taken in freshman year)Physical Education, Sophomore Activities	1
Thysical Education, Sophomore Activities	-
Second Semester—	
Physical Education 53-Physical Education in the Elementary	
School	$2\frac{1}{2}$
Fither Comments	
Art 61A, Elementary Crafts	9
Art 61A, Elementary Crafts	2
Art 61B, Elementary Crafts Music 7A, Music Materials for the Elementary Schools	3
Psychology 1A, General	3
Social Science 1, Pol., Soc. and Econ. Problems	3
Electives to meet requirements in Natural Science, Social Sci-	
ences, and minors 3, 4, 5	-14
caccs, and minors	-
	32

Possible substitutions for the requirement in Biology 10A-10B:

High school Biology (year course with laboratory work).
Botany 2A-2B and Zoology 1A-1B—16 units.
High school Botany and Zoology 1A-1B.
High school Zoology and Botany 2A-2B. High school Botany and high school Zoology.

6. Biology 1 and Physical Science 1—6 units.

2 Depending on result of Subject A test. 3 See Subject Matter Requirements in the Lower Division for total requirements in English, Natural Sciences, and Social Sciences.

Unless minor is English, General Science or Social Sciences 5 If 6 units in minor taken in freshman year, none needed in sophomore (31)

(30)

rirst demester—	Units
Education 102A, The Psychological Foundations of Education Levels Education 147, Education Practicum—Lower Levels	3 12
Second Semester—	
Education 102B, The Psychological Foundations of Education Education 148, Education Practicum—Upper Levels	3 12
	30
First Semester—	
Education 116, Practice Teaching ¹ :	6
Either Semester—	
Education 115A, The Principles and Functions of Education Electives including two minors and political science requirement (for the year)	20
	30
SUMMARY	
ALL UA, UIA, DIB	6
Education 102A-102B, 115A, 116, 147, 148English	6
Music 1A **Natural Sciences (incl. Biology 10A-10B and Geog. 1) **Physical Education (incl. Biology 10A-10B and Geog. 1) **Incl. Biology 10A-10B and Geog. 2) **Incl. Biology 10A-10B and Geog. 3) *	14
Physical Education 1A-B-C, 53 Political Science 101	
r sychology 1A	. 0
*Social Sciences (including Social Science 1 and Geography 2)	1
	124

JUNIOR YEAR

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 following outline is to be used only in combination with another credential pattern or in combination with preparation for the general secondary credential.

bination with preparation for the general secondary	
First Semester— Biology 10A,¹ Science of Life	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Second Semester— Biology 10B,¹ Science of Life	3 3 3 3 7
SOPHOMORE YEAR	32
First Semester—	
English (selected from 2, 3, 52A, 52B, 56A, 56B, unless in freshman year) Physical Education, Sophomore Activities Psychology 1A, General	3
Second Semester—	
Physical Education, Sophomore Activities	1
Either Semester—	
Social Science 1, Pol., Soc. and Econ. Problems Electives, ² including major and minor ⁵ (for the year)	22-25
JUNIOR YEAR	
First Semester—	
Education 100A, Methods and Materials of Instruction Education 102A, The Psychological Foundations of Education Political Science 101, American Institutions (or substitute)	0
¹ Possible substitutions for the requirement in Biology 10A-10	B:

Possible substitutions for the requirement

¹ Candidates for the Elementary School Credential in combination with any other type of credential are required to do not less than 6 units of practice teaching in the elementary school. * See page 24.

^{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.

Depending on result of Subject A test.
 See Subject Matter Requirements in the Lower Division for total requirements in English, Natural Sciences, and Social Sciences.

Unless minor is English, General Science or Social Science. ⁵ If 6 units in minor taken in freshman year, none needed in sophomore

year. One required if student is meeting requirements for elementary credential also.

Second Semester—	Units
Education 100B, Methods and Materials of Instruction	3
Education 102B, The Psychological Foundations of Education	3
Education 116, Practice Teaching	
Either Semester—	
Health Education 151	_ 2
Electives, including major and minor (for the year)	- 11
SENIOR YEAR	
First Semester—	
Education 115A, The Principles and Functions of Education Education 116, Practice Teaching	- 4
Second Semester—	
Education 115B, The Principles and Functions of Education	4
Either Semester—	
Electives, including major and minor (for the year)	19
major and minor (for the year)	
There are no never successful the	30
SUMMARY	
Education 100A-100B, 102A-102B, 115A-115B, 116	26
	1
* Natural Sciences (including Dial 101	14
Political Science 101 Psychology 1A	_ 2
*Social Sciences (including St.	0
Electives, including teaching major and minor	53
	1 1 2 A
	124

Combination of the Junior High School Credential with Preparation for the General Secondary School Credential Students who wish to prepare for graduate work in Education and the general secondary school credential must complete the foregoing requirements and additional upper division courses in the teaching major field to equal 18-24 units.

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	
	Unit
Aesthetics 50, History and Appreciation of Art (unless Aesthet	ics
150 is taken in the upper division)	
Art 6A-6B, Structure	4
Art 61A, 61B, Fine and Industrial Arts, Elementary Crafts	4
Education 19, Art in the Elementary School	2
English 1A, 1B, 1C, 2, 3, 52A, 52B, 56A, 56B	6
Health Education 1 or 2	10 14
†Natural Sciences Physical Education, Freshman and Sophomore Activities	12-14
Psychology 1A, General	8 14
Electives, including additional art for major and courses for teach	h-
ing minor ²	11-19
	-
UPPER DIVISION	
Education 100A3-100B, Methods and Materials of Instruction	6
Education 102A-102B. The Psychological Foundations of Education	on 6
Education 115B. The Principles and Functions of Education	_ 4
Education 116. Practice Teaching (4 units in special field)	6
Political Science 101. American Institutions (or substitute)	_ 2
Electives, including additional art and teaching minor	36
	-
	60
SUMMARY	
Aesthetics 50 or 150	- 2
Art major	- 40 *
Oducation	- 22
English	- 0
Health Education 1 or 2	14
Natural Sciences	9
Physical Education	- 2
Political Science 101, American Institutions	3
Social Sciences (including Social Science 1)	14
Social Sciences (including Social Science 1)	17
	The second second

¹ Depending on result of Subject A test.

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

* See page 24.

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

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

⁴ Maximum credit allowable in art.

[†] See 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 fultime 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 2, Mathematics of Finance	3
Devilonites 14A-14D. Accounting	6
Solonool Solonool	
	3
The state of the s	
Lujsical Education, Preshman and Conhaman Addition	2
	3
	6
Speech Arts 1A, Fundamentals of Public Speaking	3
THE RESIDENCE OF THE PARTY OF T	100
	60

¹ 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.

UPPER DIVISION

	Unit
Economics 18A-18B, Commercal Law	6
Economics 100, Modern Economic Thought, or Economics 102, Theories of Social Control, or course in Consumer Economics or	en ines
Economics 111, Economic History of the United States	3
Economics 121, Business Administration	3
Economics 140, Statistical Methods	
Economics 160A-160B, Advanced Accounting	6
Economics 161, Cost Accounting	
Economics 163, Machine Accounting	
Education 100A-100B, Methods and Materials of Instruction	
Education 102A-102B, The Psychological Foundations of Education	
Education 115B, The Principles and Functions of Education	
Education 116, Practice Teaching	
Special Methods Courses as prescribed by major department	
Geography 141, Economic Geography, or a course in Foreign Trade	
Political Science 101, American Institutions (or substitute)	
Secretarial Training 3A, Office Methods and Appliances	3
Secretarial Training SA, Office Methods and Apphances	0
Secretarial Training 6A, Advanced Stenography	0
	64

If the Secretarial subfield only is elected, Economics 2 and Education 164 and all upper division courses in accounting may be omitted, but 12 units in upper division courses in economics and commerce, other than those listed above, must be included.

If the accounting subfield is elected, Secretarial Training 5A-5B, 6A, and Education 163, 165 may be omitted.

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 1, Elements (Natural Science)	3
Geography 2, Regions	3
Merchandising 26, Salesmanship	2
Merchandising 27, Advertising	2
¹ Natural Sciences	0
Physical Education, Freshman and Sophomore Activities	4
Psychology 1A, General	3
Secretarial Training A. Rusiness Mathematics	
Secretarial Training 1A-1B Typowriting	0
Secretarial Training 10A English in Pusinger	0
Social Science 1, Pol., Soc. and Econ Problems	0
Speech Arts 1A. Fundamentals of Public Speaking	0
Electives, including Freshman English	4
	64
TIBDED DIVISION	
UPPER DIVISION	
Economics 100, Modern Economic Thought, or a course in Consumer Economics or Economics 102, Contemporary Theories of Social Control	3
Deblomics 121. Business Administration	0
Donleines 100, Money and Danking	
TTU. DISTISTICS! Mothoda	
Education 116, Practice Teaching Special Methods Courses and Functions of Education	6
Special Methods Courses as prescribed by major department ————————————————————————————————————	. 4
Geography 141, Economic Geography, or a course in Foreign Trade	3
Political Science 101, American Institutions (or substitute)	2
Electives (including a minimum of 5 units in the upper division	1
3 units of which must be in Commerce)	. 14

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.

60

Merchandising Subfield

LOWER DIVISION

seems wagner out to share out he were other out the	Units
Economics 1A-1B, Principles	6
E	M
Comments (Noture Science)	11.00
C1-0 Designs	110000
17. 10.	
Di . 1 Til L'an Englishen and Sanhamore Activities	See
Secretarial Training A, Business Mathematics	-
Secretarial Training 2A, TypewritingSecretarial Training 10A, Business Correspondence	100
Marshandiaing 24A Principles	3
Merchandising 24A, Principles Economics 18A-18B, Commercial Law	6
Economics 18A-18B, Commercial LawSocial Science 1, Pol., Soc. and Econ. Problems	3
Psychology IAElectives, including Freshman English	12
	64
UPPER DIVISION	
Economics 100, 102 or 111	3
Economics 100, 102 or 111Economics 121, Business Administration	3
Economics 140, Statistical Methods	6
Education 100A-100B, Methods and Materials of Education Education 102A-102B, The Psychological Foundations of Education	6
Education 102A-102B, The Psychological Foundation of Education Leading Education 115B, The Principles and Functions of Education	
	6
Education 116, Practice Teaching	4
	3
Political Science 101, American Institutions or substitute	2
	3
Merchandising 24B, Store Management	2
Merchandising 26, Applied Salesmanship	3
Merchandising 26, Applied Salesmanship	10
Elective, upper division courses in comme	-
	60

¹ 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 1A and Music 7A, 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.

First Semester— FRESHMAN YEAR	Units
English 1A ¹ , 1B ¹ , or 1C	3
Health Education 1 or 2 History 4A or 8A	2
History 4A or 8A Aesthetics 1A	3
Aesthetics 1A Music 1B	2
Music 1B Social Science 1	2
Social Science 1 Music 18	3
Physical Education	1
Physical Education	1
	-
	161
Second Semester—	
English 1R 1G a a a	
English 1B, 1C, 2, 3, 52A, 52B, 56A, 56B	3
Aesthetics 1B	
Music 10	60
Music 3A	2
Music 18	1
Physical Education	1
addication	1
	-
1 Denon at	151

Depending on result of Subject A test.

SOPHOMORE YEAR	
First Semester—	Units
Music 4A	3 .
Music 1D	2
Music 18	1
*Natural Science	6
Geography 2, Regions	3
Music 2A	1
Physical Education	1/2
Sacond Comenter	161
Second Semester—	
Music 4B	3
Psychology 1A	3
*Natural Science	9
Music 18	1
Education 17 Physical Education	-,
I hysical Education	2
	141
JUNIOR YEAR	112
First Semester	
Music 6A	1
Music 105A	3
Education 145	2
Music 17 or 117	1
Education 102A	3
Education 100A	3
Upper Division Minor	3
	200
	16
Second Semester—	
Political Science 101	2
Music 105B	3
Music 117	1
Education 100B	3
Education 102B	3
Upper Division Minor	3
	15
	19
First Semester—	
	1
Music 119	2
Music 107A	1
Music 117	2
Aesthetics 102A	6
Education 116. Practice Teaching ***Music Activities	2
Music Activities	
the analysis to the large of the same of t	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 117	1
Aesthetics 102B	2
Education 115B	4 3
Education 116, Practice Teaching	3
*Music Activities	
	16
	10
SUMMARY	A SULLINE STATE OF THE SECOND
Health Education	2
Aesthetics	S
Education	29
English	6
Upper Division Minor	6
Natural Science	14
Music	40
Social Science	14
Psychology	3 2
Physical Education	
	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 Un
10A-10B, Science of Life (unless taken as a year course gh school with at least a grade of B) 6
1A Conovel 4
1A 1 1R 1 1C 2 2 59A 59R 56A 56R
Education 1
of Sciences 5 or 7
l Education:
2 1010
Vannie
marganaica 1
hysical Education in the Elementary School
69R Cympostic Activities 4
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 English 1A,¹ 1B,¹ 1C, 2, 3, 52A, 52B, 56A, 56B. Health Education 1 †Natural Sciences
ringings Kules of Modern Games2
s and Athletics2
nor 14 Command
os Swimming Toot
Sciences including Social Science 1 Political, Social and
omic Problems
Arts 1A Fundamentals of Public Speaking 3
20 Anatonia - J Dharialagu
s including courses to meet minor requirements ³ 6 ¹
64
on 100A 100P Methods and Materials of Instruction 6
on 1004 1000 my re-laterial Coundations of Little
on 115D mi Dininia and Functions of Education
on 110 To To
Education 151
Education: Choose four out of the six starred courses.
Description
Tolk Danging
hysiology of Evergine
Regrestional Landarship
Theory of Cooching Foothell
and Athletical
and Athletics
on 115B, The Principles and Functions of Education 6 on 116, Practice Teaching 2 Education 151 2 Education: Choose four out of the six starred courses: Organ. and Admin. of Physical Education 2 Applied Anatomy 4 156B, Sports Methods 2 Polk Dancing 2

Depending on result of Subject A test.

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

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

See Subject Matter Requirements in the Lower Division.

MEN—Continued

UPPER DIVISION-—Continued	Units
Political Science 101, American Institutions (or substitute) Electives	2 16
	60
SUMMARY	
Education	22
English	6
Health Education	4
Speech Arts 1A	
*Natural Science (including Biology 10A-10B or substitute a	nd 14
Physical Education major	50
Political Science 101, American Institutions	"
Psychology	21
**Social Sciences (including Social Science 1)	14
Zoology 114A	01
Electives, including teaching minor	21
	194
	144

^{*} See page 24.

WOMEN

LOWER DIVISION

Units

	CIIII
Aesthetics 1A, Survey of Music	
Biology 10A-10B, Science of Life (unless taken as a year course in	No.
high school with at least a grade of B)	
or Zoology 1A, General	4
English 14 14 D1 1 C O O TOA TOD TOA TOD	e
English 1A, 1B, 1C, 2, 3, 52A, 52B, 56A, 56B	0
Health Education 2	2
*Natural Sciences	5-7
Physical Education	
I hysical Education:	
1A, Fundamental Skills	4
1B, Folk Dancing	2
1C, Rhythmic Skills	1/2
4A, Social Dancing	1/2
5B, Archery	1
7B, Golf	i
9A, Stunts and Tumbling	1
10C, Life Saving	1 2
11B, Tennis	91
*Sports and Dancing	2
Psychology 1A, General	3
Sociology 50, General	
or	
or Anthropology 54, Social	3
Social Sciences including Soc. Science I	
Speech Arts	1 120
Zoology 20	3
Electives, including teaching minor ²	161
	63
UPPER DIVISION	
	0
Education 100A-100B, Methods and Materials of Instruction	6
Education 100 A 100D The Davahological Follindations of Education	6
Education 115D my Deinginles and Functions of Education	-
Education 110 Deaction Tonching	
Health Education 151	2
Acatth Education 151	
Physical Education:	
100	1
102, Emergency and Safety Programs	2
199, Administration of Secondary Injured	2
153, Administration of Secondary Physical Education 155, Applied Anatomy	4
155, Applied Anatomy 157A-157B, Sports Methods	
Depending on result of Subject A test.	

epending on result of Subject A to

^{**} See page 24.

Unless minor subject is English, General Science, or Social Science. ³Chosen from 2A, 2B, 3A, 3B, 3C, 3D, 4B, 5A, 6A, 6B, 7A, 8A, 8B, 8C, 8D, 10A, 10B, or 11A.

^{*} See Subject Matter Requirements in the Lower Division.

WOMEN-Continued

UPPER DIVISION-Continued

	Jnits
160, Principles of Teaching Gymnastics	2
164A 16AP Advanced Dancing	2
169 Dhysiology of Evaroisa	10.00
160 Technique of Teaching Activities	
170 Regregational Leadership	
173, Principles of Physical Education	9
173, Principles of Physical Education 177, Individual Program Adaptations 185 Techniques of Individual Sports	1
Political Science 101, American Institutions (or substitute)	6
Additional Courses in Upper Division for minor	
	61
SUMMARY	
	2
AestheticsEducation	22
English	
Health Education	4
*Natural Sciences (including Biology 10A-10B or substitute, and	
Zoology 20)	14
Physical Education major	$36\frac{1}{2}$
Political Science 101, American Institutions	and .
Psychology	3
*Social Sciences (including Social Science 1 and Sociology 50 or Anthropology 54)	14
Speech Arts	3
Electives, including a teaching minor	171
	TO SOUT
	124

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:

- 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.
- 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.

^{*} See page 24.

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 fee 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 pages 23 to 26.

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.

Following is a recommended arrangement of courses:

FRESHMAN YEAR		Units
Physical EducationHealth Education 1 or 23	DOM: N	
*Foreign Language (if needed to complete requirement) 3 *Natural Science 3 *Speech Arts 1A-1B or English elective 3	3	
Electives 1		3
entities.	$16\frac{1}{2}$	15½

^{*}See lower division requirements, page 23. Recommended elective: History, 6 units.

SOPHOMORE YEAR	1	Units
Physical Education *Additional Natural Science (if needed to meet requirement) Economics 1A-1B Philosophy 5A-5B or Mathematics 3A-3B Political Science 1A-1B or 71A-71B Psychology 4A Electives ¹	3 3	3 3 3 6
	161	15計
Economics 121 or 122 Economics 133 Economics 140 Economics elective History 151A-151B or 175A-175A	3	3 3
Political Science 111 and 113 or 143A-143B Electives ²	3 3	3 3 -
	15	15
Economics 100 SENIOR YEAR Economics 102 or 111 Economics 199A-199R		3
Economics 199A-199B Economics 135 History 111A-111B or 121A-121B Political Science 175A-175B Electives ²	3	2 3 3 3
Property bearing to anticomposition of the order orders and	- 16	- 14

^{*} See lower division requirements, page 23.

² Recommended electives: English, philosophy, psychology.

Preoptometry Curriculum

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, 1-unit; trigonometry, 1-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	milion	Units
Physical Education Health Education 1	or 2	2	1/2
*Foreign Language	(if needed to complete requirements)	2 3	3
Physics 2A-2B		3	3
Speech Arts 14 1D		1 3	1 3
*Social Science		3	3
			3
		151	$16\frac{1}{2}$
	SOPHOMORE YEAR		
Physical Education		1 2	1
	serios do changosantes babosanteres a 21 c	5	5
Mathematics 3A-3B		3	3
Psychology 1A		0	3
		3	3
T31		4	2
The state of the s		-	Parties of
		151	$16\frac{1}{2}$

^{*} See lower division requirements, page 23.

Recommended elective: History, 6 units, unless taken in the freshman year.

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 following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; chemistry, 1 unit; physics, mended.

Two units of Latin are recommended.

Following is a recommended arrangement of courses:

	arrange	ment of courses:	
Physical Education Health Education Chemistry 1A-1B English 1B and 2 or 3 *French or German (if needed to meet require- ment)1 *Electives	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SOPHOMORE YEAR Physical Education Zoology 1A-1B Chemistry 7-8 *Social Science Year Course *Psychology 1A *Social Science 1 *Additional Year Course²	4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
JUNIOR YEAR Political Science 101 Physics 2A-2B Physics 3A-3B Chemistry 105 Zoology 100 Zoology 106 Electives	3 3 1 1 3 4	SENIOR YEAR Upper division requirements and electives for the major, the minors and the degree (see pages 25, 69 and 73	16½ 16½ Units

See lower division requirements, page 23.
 German if the major is Chemistry.

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.

Simulation Large Corridoria

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

The following is a recommended arrangement of courses:

FRESHMAN YEAR	Units	SOPHOMORE YEAR	Un	its
Physical Education Health Education Chemistry 1A-1B Zoology 20 English 2B and 2 or 3 French or German (if needed to complete re-	3 3	Physical Education Psychology 1A-1B Economics 1A-1B Bacteriology¹ *Social Science 1 *Additional Year Course_ Electives	3 4 3 3	3 3 3 5
*Electives1-	5 3–5 3 0–2		161	$14\frac{1}{2}$
1) Science	61/161/2			

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 following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; trigonometry, 1 unit; chemistry, 1 unit; physics, 1 unit; foreign language, 3 or 4 units.

The following arrangement of courses is recommended:

FRESHMAN YEAR Physical Education	Units - 5 - 5 - 3-4	SOPHOMORE YEAR Physical Education Chemistry 7-8 Physics 2A-2B *Social Science Year Course	3 3 3	3 3
3 3 *Foreign language (if needed to complete requirement) 1 3 *Electives 3	3 0-2	*Additional Year Course		3 15½

See lower division requirements for junior standing (junior certificate),

² Mathematics 1A-1B if the major is Chemistry.

page 23.

Not offered in the regular session; may be taken in the summer session.

(53)

Preagricultural Curricula

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, ½ unit; trigonometry, ½ unit; solid geometry, ½ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit; foreign language, 2 units.

The two-year curricula require the completion of 66 units of work for junior standing in recognized colleges of agriculture. Students should ascertain the lower division requirements of the agricultural college they expect to enter.

The following arrangement of courses is recommended:

Curricula in Plant and Animal Sciences and in Forestry

FRESHMAN YEAR	Units
Physical Education	1/2 1/2
Health Education	2
Chemistry 1A-1B ²	5 0
Botany 2A-2B	9 3
Physics 2A-2B ²	2 4
Electives ³	-
	161 161

SOPHOMORE YEAR

Plant Science	Un	its	Animal Science	Un	its
Physical Education Economics 1A-1B Chemistry 7-8 Geology 1A or 2A Bacteriology 1 (summer session) Zoology 1A Botany 4 Electives	3 3 -4	4	Physical Education Economics 1A-1B Chemistry 7-8 Geology 1A or 2A Bacteriology 1 (summer session) Zoology 1A-1B Zoology 100 Electives	3 3 4	3 3 - 4 4 4
	$16\frac{1}{2}$	161		151	189

Forestry

Physical Education	7 1
Economics 1A-1B	3 3
Mathematics 1 and 8 or 24 2B	3 0
Geology 1A	3 3
Electives	3
	161 151

^{*} See lower division requirements for junior standing (junior certificate),

(54)

Preengineering Curricula

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

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

The following arrangement of courses is recommended:

Mechanical, Electrical, Civil and Mining Engineering

FRESHMAN YEAR	Un	its
Physical Education	1	1
Health Education 1		2
Mathematics 3A-3B	3	3
Chemistry 1A-1B	5	. 5
Thysics 1A-1B	3	3
*Geology 1A or elective	4	
	-	
	$15\frac{1}{2}$	$16\frac{1}{2}$

Mechanical and Electrical Engineering

SOPHOMORE YEA	
Engineering 1A	3
Engineering 22	3
Engineering 22	9
actionalies 118 or 110	9
Luysical Education	* *
Electives	3 2
	194 164

Civil Engineering

stronomy 3		
ngineering 25		
hysics 1C-1D	3	
	153	11

^{*}Geology 1A is required in the civil engineering curriculum.

¹ Additional foreign language may be substituted for physics if necessary to satisfy lower division requirements in foreign language.

² See prerequisites, page 73 and page 115.

s Foreign language if not taken in high school.

Curriculum in Industrial Physics

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, 1 unit; solid geometry, ½ unit; trigonometry, ½ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit; French or German, 3 units.

Physical Education Health Education 1 Mathematics 3A·3B Chemistry 1A·1B Physics 1A·1B *English Electives	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SOPHOMORE YEAR Units Physical Education 1/2 1/2 3 3 Mathematics 4A-4B 3 3 3 Physics 1C-1D 3 3 3 Any combination of: Engineering 1B, 21, 22 3 3 Engineering 23 2 2 *Foreign Language 3-5 3-5 *Social Science 1 3
JUNIOR YEAR Physics Engineering 128¹ *Economics 1A-1B *Psychology 1A Political Science 101 Electives	6 6 3 3 3 3 3	SENIOR YEAR Units Chemistry 110A-110B ¹ 3 3 Upper division requirements and electives for the major and the degree (see pages 25, 73) 12 12 15 15

^{*}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.

1 Engineering and chemistry should be used to satisfy requirements for the minors.

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 suplementary courses designed for cultural exploratory and orienting purposes. 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.

The following arrangement of courses is recommended:

FRESHMAN YEAR	U	nits	SOPHOMORE YEAR	U	nits
Physical Education		1 1	Physical Education		1 1
Health Education 1 or 2	2		*Additional Natural Sci-		10101
*English	3		ence (if needed to meet		
*Foreign Language (if	all or	KIE W	requirements)	3	
needed to complete re-	alies o		*Additional year course		3
quirements)	3-5	3-5	Economics 1A-1B	3	3
*Natural Science	3-5	3-5	Political Science 1A-1B or		
Economics 14A-14B	3	3	71A-71B	3	
Electives	0-5	0-3	Psychology 1A		3
	200		Electives	4	3
	16	151			
				16%	151
JUNIOR WELL	**		SENIOR YEAR	Un	its
JUNIOR YEAR	W. Sti	nits		3	
Economics 121	3		Economics 100	100	3
Economics 122		3	Economics 102		3
Economics 128		3	Economics 131 Economics 199A-199B	1	2
Economics 140	3		Political Science 143A-	49/103	
Political Science 175A-			143B	3	3
175B	3	3	Electives ¹	9	3
Electives1	6	6	Electives		-
	-	-		16	14
	15	15			

^{*} See lower division requirements, page 23.

See minors requirements, page 23.

See minors requirements, page 25. 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 two courses in economics chosen from the following group: Economics 121, 122, 128.

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.

Physical Education Health Education 1 or 2 English 1B, and 1C, 2 or 3 *Foreign Language (if needed to complete requirement of 10 units) 0 *Natural Science3 Mathematics D and Economics 20 Electives0	-5 3-5 3 3 -5 0-6 — —	SOPHOMORE YEAR Physical Education *Additional Natural Science (if needed to meet requirements) Economics 1A-1B Economics 14A-14B Political Science 1A-1B or 71A-71B Psychology 1A Electives ¹	Units \[\frac{1}{2} & \frac{1}{2} \] \[\frac{3}{3} & 3 & 3 \\ 3 & 3 & 3 \\ 4 & 3 & 3 \\ \frac{16\frac{1}{2}}{15\frac{1}{2}} & \frac{15\frac{1}{2}}{15\frac{1}{2}} \]
JUNIOR YEAR Economics 121 Economics 122 Economics 140 Economics 161 Political Science 101 Electives ²	Units 3 3 3 3 3	Economics 131 Economics 160A-160B Economics 165A Economics 199A-199B³ Political Science 143A- 143B Electives²	

^{*} See lower division requirements, page 23.

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, ½ unit; trigonometry, 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	SOPHOMORE YEAR	Un	its
Physical Education Health Education 1 or 2 Anthropology 54 Biology 10A-10B *Foreign Language (if needed to complete requirement)3 *Speech Arts 1A-1B or English elective Electives¹0	1 1 1 2 3 3 3 3 3 5 5 3 5 5 3 5 5 3 5 5 5 5 5	Physical Education Economics 1A-1B Political Science 1A-1B or 71A-71B Psychology 1A, 1B *Additional Year Course *Additional Natural Science (if needed to meet requirement) Electives¹	3 3 3 3	3 3 3 3
	16½ 16½		$15\frac{1}{2}$	$15\frac{1}{2}$

^{*} See lower division requirements, page 23.

¹ Recommended elective: Economics 18A-18B and Secretarial Training 3A

² See minors requirements, page 25. 3 Governmental accounting.

Recommended electives: Economics 14A-14B, 6 units; Sociology 50, 3 units; Psychology 4A, 2 units.

JUNIOR YEAR Economics 122 Social Economics 100 Social Economics E109 (Field of Social Work, Extension Division) Social Economics E110	3	aits 3	Economics 102 Economics 140 Economics 199A-199B Social Economics 103 Social Economics 104 Social Economics E111 (Social Economics E111	U 1 3	nits 3 3 2
(Field of Social Worts	2. 3 2 5	2 3	Social Economics 104	3 3 -	2 2 3 -
The second secon	15	15		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. Practical training in news reporting and editing for student publications and for the daily and weekly press is emphasized.

The following subjects should be completed in the high school: 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	U	nits	SOPHOMORE YEAR	U	nits
					1 1
Physical Education ————————————————————————————————————	-	1 1	Physical Education	. 3	3
English 1D 0		ed ber	Economics 1A-1B		3
English 1B-2 or 3	-003	3	Journalism 51A-51B		3
History 4A-4B or 8A-8B.	- 3	3	*Philosophy 5A-5B (if		
*Foreign Language (if			needed to complete addi-		
needed to complete			tional year course re-		
requirement)	0-5	0-5	quirement)	3	3
Journalism 10A-10B	1	1	Political Science 1A-1B or		
Electives ¹	0-5	0-6	71A-71B	3	3
A THE MANAGEMENT OF THE PARTY O	966		Psychology 1A, 4A	3	2
	16	151	Electives ²	1	1
				161	151
JUNIOR YEAR	Tir	its	SENIOR YEAR	Un	its
Social Science Majors			Social Science Major3	6	6
English Minor	6 3	9	Second Minor	3	
Journalism 151A-151B	3	3 1	Journalism 153C-153D ⁵	9	3 2
Journalism 151A-151B	1	1		-	5
Journalism 153A-153B ⁵	2	2 3	Journalism 199		
Electives	3	3	Political Science 101 (if not included in major)	2	
	15	15	Electives	2	2
			terms of a principle	15	15

^{*} See lower division requirements for junior standing, page 23.

¹Recommended electives: Anthropology 152, 3 units; History 171A-171B, page 25.

Recommended electives: Aesthetics 1A-1B, 4 units; Aesthetics 5, 2 units; Anthropology 50A-50B, 6 units; Geography 2, 3 units; Sociology 50, 3 units; Typewriting 2A, or equivalent, no credit.

² Recommended electives: Journalism 53A-53B, 2 or more units.

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, Social Economics.

⁴See minors requirements, page 25.

Not more than six units of Journalism 53A-53B and 153A-153B may be counted toward the A.B. degree and not more than four units of Journalism 153C-153D may be counted.

COURSES OF INSTRUCTION

Figures in parentheses indicate the unit value of the course. Courses numbered from 1 to 99 are lower division (freshman or sophomore courses; those numbered 100 and above are upper division (junior or senior) courses.

Freshmen are not admitted into upper division courses.

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

One "unit" represents an bour 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 balf of the course. Single semester courses baving 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

T TOO TOO	ramon in the middle of the
Aesthetics 1A-1B Aesthetics 102A-102B Anthropology 50A-50B Anthropology 151A-151B Economics 160A-160B English 52A-52B English 56A-56B English 106A-106B English 107A-107B French 101A-101B French 105A-105B French 107A-107B French 107A-107B	French 111A-111B History 4A-4B History 8A-8B History 111A-111B History 121A-121B History 146A-146B History 151A-151B History 156A-156B History 171A-171B History 173A-173B Merchandising 24A, 24B Political Science 1A-1B Political Science 175A-175B

Spanish 101A-101B	Speech Arts 55A-55B
Spanish 102A-102B	Speech Arts 55C-55D
Spanish 104A-104B	Speech Arts 155A-155B
Spanish 105A-105B	Speech Arts 156A-156B
Spanish 110A-110B	

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 postboned.

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

An illustrated lecture course involving a study of aesthetic meaning and its relation to the structure of art products. Designed to increase both understanding and appreciation of the visual world in general and of the fine arts in particular.

Fall and Spring (2)

50 Appreciation and History of Art

A survey of 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

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. Previous study of Aesthetics 1A-1B or harmony and instrumentation is desirable.

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 COURSES

50A-50B Man's Evolutionary History

Rogers

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

Year course (3-3)

54 Social Anthropology

Rogers

An anthropological study of social institutions in primitive and civilized societies. The evolution of family organization, religion, property right, and government traced in elementary and advanced civilization. Ritualism and education considered as processes of culture conservation and social control.

Spring (3)

55 Culture History

The prehistoric and historic development of culture types contributing to Western European and American civilization of today. Egyptian, Semitic, Indo-European, and Oriental cultures examined in light of their bearing on contemporary civilization. Methods of culture spread examined and applied to specific traits. Spengler's theory of history and similar doctrines reviewed.

Fa!1 (3)

UPPER DIVISION COURSES

151A The American Indian: North America 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 in1940-41 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 1940-41 and alternate years)

152 Primitive Cultures (Ethnology)

Rogers

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

Fall (3) (Offered in 1939-40 and alternate years)

153 Primitive Religion

Beliefs and ritual of primitive man. Magic and religion. Forms of animism and polytheism. Primitive mentality and the supernatural. Spring (3) (Offered in 1939-40 and alternate years)

ART

Candidates for a teaching credential in art should refer to the statement "Admission to Teacher Training" on page 26.

Lower division preparation for the liberal arts major in art: Aesthetics 5, 50; fourteen units carefully chosen from lower division art courses to

(64)

meet the stated prerequisites for upper division work. These shall include Art A-B, 6A-6B, or the accepted equivalents, and six elective units in art.

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

It is recommended that the students in meeting degree requirements and in choosing free electives, select from the following courses: Anthropology 151A-151B; 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 63.

LOWER DIVISION COURSES

Art Appreciation

8A-8B Appreciation of Costume and Home Furnishing 8A A survey of the periods of costume and home furnishing from primitive man to the present time.

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. Fall and Spring (2)

Design

6A Structure

Hamann, Patterson

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

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

Fall and Spring (2)

7 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 (3)

11A Industrial Design

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)

(65)

11B Advanced Industrial Design

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

Spring (2)

14A Lettering

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

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

Drawing and Painting

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,

Year course (3-3)

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)

(66)

Crafts

Art 61A Fine and Industrial Arts

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 fieldspottery, textiles, weaving, metal work, wood-carving, and book-binding. Prerequisite: Art 6A.

Fall and Spring (2)

UPPER DIVISION COURSES

Design

106A-106B Printmaking

Houser

Study of print crafts which includes the making of linoleum blocks, wood engravings and etchings. Prerequisites: Art A, B, 6A. Year course (2-2)

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 (2-2)

106C Illustration

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

Spring (2) (Offered in 1940-41 and alternate years)

152A Stage Design See Art 52A.

Patterson

152B Stage Costume

Patterson

Costume studied in relation to drama, opera and dance. Original designs for mood and character. Practical problems in designing costumes and accessories for college productions. A brief history of costume from the Egyptian to the modern time. Prerequisites: Art 6A, 52A or 152A. 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)

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)

ASTRONOMY

Lower division preparation in astronomy desirable for advanced work: Astronomy 1, 3, 9, and 11; Mathematics 3A-3B, 4A-4B; Physics 1A-1B and 10-1D; a reading knowledge of German (French also desirable).

LOWER DIVISION COURSES

1 Descriptive Astronomy

C. E. Smith

A cultural course planned to develop an appreciation of astronomy with special emphasis on the solar system. Only calculations of an elementary nature are used. Especial attention given to the methods and instruments by means of which astronomical knowledge has been gained. A six-inch Alvin Clarke telescope is available for observation. Prerequisites: Elementary algebra and plane geometry. Fall and Spring (3)

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

5 Historic Development of Astronomy The leading facts now known in astronomy in the light of circumstances attending their discovery. Prerequisite: Astronomy 1, or permisson of Fall (3)

9 Practice in Observing

A laboratory course designed particularly to go along with and to supplement Assessment and to supplement Assessment and the supplement are supplementations. ment 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 Fall and Spring (1)

11 Modern Astronomy

C. E. Smith

A study of sidereal astronomy and astrophysics in the light of modern research, especially photographic and spectographic. Prerequisite: Astronomy 1 and a knowledge of physics or permission of instructor. Spring (3)

UPPER DIVISION COURSE

100 Special Problems

C. E. Smith

Admission by consent of instructor. Credit and hours to be arranged in each case. Open to students who have completed three units in astronomy. Fall and Spring (1 or 2)

LIFE SCIENCE

(General Biological Science, Botany, Zoology)

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

Lower division preparation for the liberal arts major in zoology: Zoology 1A, 1B, and high school chemistry or Chemistry 1A-1B. Recommended: German, 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, 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.

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

BIOLOGY

LOWER DIVISION COURSES

Johnson 1 General. (One-semester course, without laboratory) A general biology course with lectures, discussion, and demonstrations three hours a week. For students who are not required to take Biology 10A-10B and who prefer a shorter course. A demonstration laboratory is offered one hour a week. Not open to students who have credit for Biology 10A-10B, Zoology 1A-1B, Botany 2A-2B, or high school zoology or botany. Students who have credit for this course and later elect 10A-10B receive 4 units of credit for 10A-10B instead of six. Fall or Spring (3)

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

The fundamentals of plant and animal biology, with elementary work in human physiology and heredity. Laboratory work supplements the lectures and includes a study of living and preserved material. Aim of the course to acquaint the student with the basic facts of biology. 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

BACTERIOLOGY

199 Special Study

Work other than is outlined in the regular courses. Admission only by consent of the instructor with whom the work is to be done and the chairman of the Life Science department. Credit and hours to be arranged in each case. Open to students who have completed at least 6 units of bacteriology with grades of A or B.

BOTANY

LOWER DIVISION COURSES

2A General

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

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)

UPPER DIVISION COURSES

102 Plant Georgraphy

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 1939-40 and alternate years.)

104 Taxonomy

Harvey

Identification, classification and distribution of representative orders of flowering plants. Six hours per week of lectures, laboratory, and field work. Prerequisites: Botany 2A-2B, 4. Spring (3) (Offered in 1940-41 and alternate years.)

107 Plant Physiology

Harvey

The activities of plants, including food manufacture, absorption, conduction transmission beautiful food manufacture, absorption, conduction transmission beautiful for the conduction for the conduction of the conduction for the conduction of the duction, transpiration, respiration, growth, and movement. Two lectures and six hours of late, respiration, growth, and movement. and six hours of laboratory per week. Prerequisite: Biology 10A-10B of

Fall (4) (Offered in 1940-41 and alternate years.)

199 Special Study

Staff

Work other than is outlined in the above courses. Admission by consent of the instructor with whom the work is to be done and the chairman of the department. 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)

ZOOLOGY

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 one 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 10A-10B receive no credit for Zoo. 1A but may enter 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 The development of vertebrates as illustrated by the frog, chick, and pig. Six hours of laboratory and two hours of lecture per week. Prerequisite: Zoology 1B or Biology 10B.

Spring (3)

106 Comparative Anatomy of the Vertebrates 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)

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.

Fall (3) (Offered in 1939-40 and alternate years)

113A Taxonomy and Natural History of the Mammals

Harwood and Engler

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

Spring (1) (Not offered in 1940-41)

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. Prerequsite: Zoology 1B or Biology

Spring (3) (Offered in 1940-41 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 1939-40 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.

Spring (1) (Not offered in 1940-41)

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 1940-41)

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) (Offered in 1940-41 and alternate years)

130 Readings in Biology

Harwood

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

Spring (2) (Offered in 1939-40 and alternate years)

199 Special Study

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 and the head of the department. Credit and hours to be arranged in each case. Open to students who have completed at least fifteen units of Zoology with a

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 a related minor and the organization of the course of the major student must follow a definite plan approved by the department.

For requirements for liberal arts major in physical science, see page 114.

LOWER DIVISION COURSES

1A-1B General Chemistry

Messner, Robinson

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

Year course (5-5)

7-8 Organic Chemistry

Robinson

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

Year course (3-3)

UPPER DIVISION COURSES

105A Quantitative Analysis

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

Lectures and problems on theoretical principles of chemistry. Prerequisites: Physics 1A-1B or 2A-2B and Chemistry 105A which may be taken

(73)

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

Robinson

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 1939-40 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 1940-41 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 1939-40 and alternate years)

123-124 Organic Preparations

A laboratory course illustrating some of the more important synthetic methods of organic chemistry. Laboratory and conferences. Prerequisite: Chemistry 7-8. A reading knowledge of German recommended. Beginning either Fall or Spring (1 to 5-1 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 1939-40 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 1940-41 and alternate years)

144 Industrial Chemistry

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

Spring (3) (Offered in 1939-40 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)

ECONOMICS

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 or 4A or 4B; Geography 1 and 2; Anthropology 50A-50B. Recommended: Sociology 50; 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 units selected from Economics 102 or 111, 123, 131, 133, 135, and 171. Electives: Six upper division units in economics. Economic geography or 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 26 and to the curriculum for the A.B. degree with a special credential in Business Education on pages 36 to 39.

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

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

- A. Accounting: Economics 160A-160B, 161, 163.
- B. Banking and Finance: Economics 133, 134, 135 and 3 units in electives in economics.

Geography 141 may be used in the electives under B.

LOWER DIVISION COURSES

1A-1B Principles of Economics The basic principles of economics: utility, wealth, value, price; economics nomic 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; transporation corporations, labor problems, socialism, taxation, etc. Aims of the course: (1) to provide a foundation for further intensity sive 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)

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)

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

Year course (3-3)

UPPER DIVISION COURSES

100 Modern Economic Thought

A. G. Peterson

Classical doctrine in the light of recent economic theory. A critical analysis of contemporary economic thought. Prerequisite: Economics Fall (3)

102 Contemporary Theories of Social Control 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.

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

121 Business Administration

Problems of business administration as an interrelated whole and as an indication of the second state of t 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)

122A Local Public Administration

A. G. Peterson

A general survey of the field of public administration with particular attention to the organization of the administrative service and the principles, practice and problems of personnel, finance and welfare administration in city and county government.

Fall (3) (Offered in 1940-41 and alternate years)

122B Field Studies in Local Public Administration A. G. Peterson Open only to qualified students with the consent of the supervisor. Fall (1-2) (Offered in 1940-41 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) (Offered in 1939-40 and alternate years)

129 Real Estate Law and Practice Barnes, Conklin, Merrill, Reader 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 1940-41 and alternate years)

131 Public Finance

A. G. Peterson

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

Spring (3) (Offered in 1939-40 and alternate years)

133 Corporation Finance

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

Fall (3)

134 Investments

Investment principles and practices with emphasis upon problems of the small investor, such as tests of a good investment, sources of information, types of stocks and bonds, mechanics of purchase and sale, investment trusts, real estate mortgages, and the like. Spring (3)

135 Money and Banking

Cameron

The elements of monetary theory. History and principles of banking with special reference to the banking system of the United States. Prerequisite: Economics 1A-1B.

Fall (3)

140 Statistical Methods

Deputy

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

Spring (3)

160A-160B Advanced Accounting

Wright

An intensive study of the corporation, its accounting and financial problems; a thorough study of the balance sheet; depreciation; factory accounting, etc. Under practical accounting an endeavor is made to design, construct, and operate sets of books to meet the needs of different conditions and kinds of businesses. Six hours lecture and laboratory. Prerequisite: Economics 14A-14B.

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

Spring (3) (Offered in 1939-40 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. site: Economics 14A-14B.

Spring (3) (Offered in 1939-40 and alternate years)

163 Machine Accounting

Wright

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

Fall (3)

164 Income Tax Procedure

Wright

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

Fall (2) (Offered in 1939-40 and alternate years)

165A-165B Auditing

Wright

The fundamental principles of accepted procedures of auditing and related types of accounting engagements. Year Course (2-2) (Offered in 1940-41 and alternate years)

(78)

171 Transportation

Cameron

The development of railway transportation; railroad financing; rates and rate making; governmental regulation; government operation of railroads during the war; recent development of motor and air transportation; current problems. Prerequisite: Economics 1A-1B. Spring (3) (Offered in 1940-41 and alternate years)

199A-199B Special Study

The Staff

Designed exclusively for seniors with a major in economics or commerce. Fall (1), Spring (2)

ECONOMIC GEOGRAPHY

(See Geography)

MERCHANDISING

24A Elements of Merchandising

Torbert

A survey of the various methods by which products reach the retailer; market structure, its principles and functions; types of retail institutions, their origin, growth and trends. Fall (3)

24B Principles of Merchandising

Torbert

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

Spring (3)

25 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)

26 Applied Salesmanship

Torbert

Supervised work in cooperating stores, or outside selling; relationships between theory and practice in specific selling situations; student's problems; commission, and other incentive methods of payment in selling; the problem of the sales manager, or store manager, in reducing selling costs.

Spring (2)

27 Principles of Advertising

Torbert

Functions, principles, and applications; market surveys and analysis; basic psychological appeals; budgeting of appropriations; selection of mediums; layout, art work copy; publicity and promotion stores; institutional advertising; the functions of agencies.

Spring (3)

SECRETARIAL TRAINING

A Business Mathematics

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

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

1A-1B Typewriting

Amsden

A rapid development of a thorough command of a keyboard by the touch method. The acquisition of speed and the artistic arrangement of typewritten material with special reference to commercial forms, tabulation and billing; specifications, legal forms, and preparation of manuscripts; transcription, mimeographing, etc. Eight hours lecture and laboratory practice.

Year course (3-3) (Only three units will be counted in satisfying the A.B. degree requirements in Liberal Arts curricula.)

2A Typewriting

Amsden

A short course designed for those not wishing to enter the business office but desiring a knowledge of the use of the typewriter. Five hours laboratory practice.

Spring (2)

3A Office Methods and Appliances

Wright

Practice and principles of office management, including organization, arrangement and operation. Study and use of modern office appliances such as the multigraph, mimeograph, filing devices, calculating and bookkeeping machines. Prerequisite: Secretarial Training 1A or its equivalent.

Fall and Spring (3)

5A-5B Stenography

Amsden

An intensive course designed for the practical preparation of office secretaries. A thorough study of the Gregg System. Development of the ability to read and write shorthand rapidly and correctly, both literary and commercial. The shorthand speed necessary to pass a civil service examination is attained by the end of the year. Year course (5-5)

6A-6B Advanced Stenography

Amsden

Development of speed in writing and transcription. Advanced dictation on letter forms, legal forms, speeches, and literary and technical material. Year course (3-3)

10A English in Business

Torbert

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 1A or equivalent, as indicated by Subject A Examination, or record from college.

Fall and Spring (3)

EDUCATION

LOWER DIVISION COURSES

17 Music in the Elementary School

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

Fall and Spring (2)

19 Art in the Elementary School

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)

TIPPER DIVISION COURSES

100A-B-Methods and Materials of Instruction

R. Perry, and Special Supervisors

A year course required of all candidates in their junior year for the junior high and special secondary credentials. Candidates for a combination of either a junior high or a special secondary credential may substitute the work of the elementary practicums 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.

Fall and Spring (6)

102A-B The Psychological Foundations of Education 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)

106 Philosophy of Education

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

Summer (3)

107 History of Education

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

Summer (3)

108 Educational Measurements

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

Summer (3)

109 Educational Administration and Supervision

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

Summer (3)

110 Educational Organization and Supervison

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

Summer (3)

111 English in the Junior High School

Objectives of literature and language teaching in the junior high school; criteria for selection of material; technique of classroom procedure; observation in the city schools. Prerequisite: The satisfaction of the lower division requirements in English for the teaching major in English. Summer (3)

114 Social Science in the Junior High School

The teaching of some of the elementary facts and principles of a "general" social science suited to the experience and development of the junior high school pupil, through the medium of such social studies in the junior high school curriculum as history, geography, and civics. Methods of development on the continuing interest in social and civic problems through evaluating historical and geographical material for educative purposes on this level. Prerequisites: Six units of geography and six units of history.

115A-B The Principles and Functions of Education

A year course restricted to students with senior standing or the equivate course is required of all junior high school candidates. The second half of first half is required of all special secondary credential candidates and the course 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 (8)

116 Practice Teaching

R. Perry and Supervisors

Systematic observation, participation and teaching under supervision in the campus training school, the Euclid affiliated city elementary school, the Woodrow Wilson Junior High School, and the 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, an afternoon of teaching daily in the campus training school or two and one-half hours daily in the Euclid school throughout one semester; junior high school and special secondary school credential candidates will be guided by their adviser relative to the distribution of their practice teaching. For those seeking a combination of credentials, the requirements for each teaching level must be satisfied. Further information regarding this requirement should be requested of the Dean of Education when the student first registers for practice teaching.

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

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

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

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

119 Art in the Junior High School

Class problems, discussions and observations which will give an understanding of the type of work that should be taught in junior high schools.

Summer (3)

121 Principles of Secondary Education

The principles of educational science that should underlie the organization, administration and curriculum of the secondary school. Prevailing patterns of high school education; tendencies in the direction of future development. Particular attention to the method of directing learning in the secondary schools. Prerequisite: Psychology 1A. Open only to students with senior standing.

Summer (3)

130 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)

140 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)

142 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)

145 Organization and Administration of Music Education

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

Fall (2)

147-Education Practicum-Lower Levels

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

units; mental hygiene, 1 unit; health and physical education, 2 units; practice teaching, 2 units.

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

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

Fall and Spring (12)

Fall and Spring (12)

148 Education Practicum-Upper Levels (See description above.) Arnold, Bacon, Barbour, Corbett, K. Post, J. Stone

Prerequisite: Education 147.

160 Commercial Education

Wright

Aims, objectives and procedures in commercial education. A study of curricula, together with a consideration of the content of commercial subjects; tests applicable to commercial teaching. Fall (2)

161 Junior Business Training

Wright

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

Spring (2)

163 Stenography

Amsden

Methods and content of courses in stenography. Prerequisites: Secretrial Training 5A-5B, 6A. Fall (2)

164 Bookkeeping

Wright

Various types of bookkeeping method, with considerable study of content. Fall (2)

165 Typewriting

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

Spring (2)

169 Graphic Methods in Education

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)

(85)

170 Administration of a Visual Instruction Program

The service program of a visual instruction center is studied as a collecting, selecting, organizing and distributing center for classroom illustrative materials; a teacher 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)

176 Speech Arts in the Secondary School

Jones

Organization and conduct of junior high and high school speech activities. Fall (2)

199 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 curricula in engineering see page 55)

LOWER DIVISION

1A-1B Plane Surveying

Gleason

Use and adjustment of surveying instruments, computations and map making, together with a study of land, topographic, city, and 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)

3 Summer Class in Surveying

Practical field problems in reconnaissance, triangulation, location and topographic surveys. Observations for meridian, time and latitude. Precise work in linear and angular measurements. Development of self-reliance accuracy and angular measurements. reliance, accuracy, and professional skill on the part of the student. Four weeks course held in the mountains near San Diego. For details regarding leastion of ing 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)

22 Machine Drawing

Walling

Design and drawing of simple machine parts with emphasis upon the production of standard drawings. Lectures and drafting. Prerequisite: Engineering 21. Spring (3)

23 Materials of Construction

Walling

Structural properties and adaptability of materials used in engineering. Lectures. Prerequisite: Sophomore standing. Spring (2)

25 Elements of Electrical Engineering

Walling

Mathematical and descriptive consideration of electrical circuits 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)

HPPER 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 Engineering 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 Engineering Physics curriculum. Fall (3)

ENGLISH

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

Liberal arts major (upper division): 24 units in upper division English to be selected and arranged under supervision of the department. A reading knowledge of German or French.

LOWER DIVISION COURSES

1A Freshman English Evans, Johnson, Trail The elements of composition, including drill in grammar and usage, exercises in vocabulary building and careful reading, and an introduction to the principles of effective writing.

Fall and Spring (3)

1B Freshman English

Adams, Evans, Johnson, Keeney, Kennedy, Trail, F. D. Walker

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

Evans, Keeney

An introduction to literature significant in European and American culture, with composition.

Fall and Spring (3

2 Sophomore English

Kennedy, F. D. Walker

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

Fall and Spring (3)

3 Sophomore English

Adams, Dickhaut

Composition stressing article writing of varied types. Reading from current periodical literature. Prerequisite: One semester of freshman

Fall and Spring (3)

10 Recreational Reading

Development of personal tastes for leisure-time reading through lectures and oral or written reports. May be taken a second time with new

Fall and Spring (1)

52A-52B Types of Literature

Adams, Dickhaut

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)

55A-55B Dramatic Production See Speech Arts, page 122.

Jones

56A-56B Survey of English Literature

Keeney

The most important masterpieces of English literature from the Anglo-Saxon period through the Victorian age. Year course (3-3)

UPPER DIVISION COURSES

101 Modern Prose Fiction

Dickhaut

Recent and contemporary fiction in novel and short story, including British and Continental, as well as a selection from present day American. Spring (3)

106A, 106B Advanced Composition

Dickhaut

A laboratory course in modern prose writing. Semester I: Artistic narrative, with description. The short story. Semester II: The essay, the magazine article, criticism. Outside readings. Prerequisite: One year of college composition. Either semester may be taken first.

Fall, Spring (3-3) (Offered in 1939-40 and alternate years)

107A, 107B Advanced Composition

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

Fall, Spring (3-3) (Offered in 1940-41 and alternate years)

110 Recreational Reading

Dickhaut

An advanced course in the group reading of modern drama, poetry and fiction.

Fall and Spring (1)

116A The Age of Elizabeth

Adams

Poetry and Prose, exclusive of the drama.

Fall (3) (Offered in 1940-41 and alternate years)

116B The Elizabethan Drama

Adams

Emphasis is given to the forerunners and early contemporaries of Shakes-

Spring (3) (Offered in 1940-41 and alternate years)

117 Shakespeare

Johnson

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

Spring (3)

118A Swift and His Contemporaries

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 Pryor.

Spring (3) (Offered in 1939-40 and alternate years)

118B Age of Johnson

A study of Johnson and his circle as representatives of their age, together with a study of Burns, Blake, and others as forerunners of the age of Romanticism.

Spring (3) (Offered in 1940-41 and alternate years)

119 The Romantic Poets

Adams

A study of early nineteenth century poetry: the work of Wordsworth, Coleridge, Byron, Shelley, and Keats, in relation to the thought of the revolutionary period.

Spring (3) (Offered in 1939-40 and alternate years)

121 Poetry of the Victorian Period

F. D. Walker

A study of Tennyson and Browning and their contemporaries and successors, relating English poetry to nineteenth century life and thought. Fall (3) (Offered in 1939-40 and alternate years)

126 Nineteenth Century British Prose

Dickhaut

Readings and discussions of romantic and mid-Victorian prose writers, including Coleridge, Hazlitt, Lamb, de Quincey, Carlyle, Landor, Macaulay, Mill and Thackeray.

Fall (3) (Offered in 1940-41 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 1939-40 and alternate years)

130A American Literature

F. D. Walker

A survey of American literature with its backgrounds from the beginning of the 19th century to about 1890. Cooper, Melville, Hawthorne, Poe, Emerson, Thoreau, Whitman, Mark Twain and others are considered and related to national development. Lectures, discussions and reports. Fall (3)

130B American Literature

A survey of American literature with its backgrounds, covering the period from about 1890 to the present time. Extensive reading in recent and contemporary poetry, fiction, etc. Lectures, discussions and reports. Spring (3)

143 The Development of the English Novel F. D. Walker History of the English novel from the beginnings to Hardy. Extensive reading of novels with reports. Lectures and discussion. Fall (3) (Offered in 1940-41 and alternate years)

151 Medieval Literature

The literature of the fourteenth century, especially the verse romances Fall (3)

(90)

152A Survey of Drama: Comedy

Evans

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.

Spring (3) (Offered in 1939-40 and alternate years)

152B Survey of Drama: Tragedy

Evans

Procedure as in 152A, with selections taken from the field of tragedy. Spring (3) (Offered in 1940-41 and alternate years)

156A-156B Advanced Drama

Jones

See Speech Arts, page 123.

160 Seventeenth Century Literature

Adams

Emphasis is put upon the work of Milton.

Fall (3) (Offered in 1939-40 and alternate years)

163 Rhythm, Pantomime and Choric Verse

Jones

See Speech Arts, page 123.

SPEECH ARTS (See page 121)

FOREIGN LANGUAGES

As a background for advanced work in Romance languages, students are advised to include in their electives as many as possible of the following courses: Geography 118, History 121A, 121B, 145A, 145B, Aesthetics 50 or 150: English 1C, 52A, 52B, 56A, 56B, 101, 116A, 116B, 117, 118A, 118B, 119, 121, 126, 143, 160.

FRENCH

LOWER DIVISION COURSES

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

Liberal arts major in French: Twenty-four units of upper division work, of which at least eighteen must be in French, and of which a maximum of mum of six may be in related subjects, arranged in consultation with the chairman of the department. At least a C average in upper division major courses.

A-B Elementary

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 in high school 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.

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 resumes 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 1939-40 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 1940-41)

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) (Offered in 1941-42)

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 1940-41)

110A-110B Modern French Novel

E. M. Brown

The French novel from Victor Hugo to the present day, including such authors as: Hugo, Dumas, Stendhal, Balzac, Flaubert, Loti, Anatole France, Bourget, Bordeaux, Bazin, Barres, Romain Rolland, A. Gide, Marcel Proust, and others. Class and outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3)

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 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 factorish Greek roots of most frequent occurrence in English, and of the English words derived from them. Not open to first semester freshmen.

GERMAN

LOWER DIVISION COURSES

A-B Elementary

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

Year course (5-5)

C-D Intermediate

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

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

Year course (2-2)

SPANISH

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

Liberal arts major in Spanish: Twenty-four units of upper division work, of which at least eighteen must be in Spanish, and of which a maximum of six may be in related subjects, arranged in consultation with the chairman of the department. At least a C average in upper division major courses.

LOWER DIVISION COURSES

L. P. Brown

A-B Elementary

Intensive study of Spanish grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation; reading with oral discussion and resume; 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.

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

Year course (3-3)

1-2 Elementary

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

Year course (3-3)

3-4 Intermediate

Baker

A continuation of Spanish 1-2. Reading of Spanish prose; composition; outside reading in Spanish 4, with reports. Prerequisite: Spanish 2 or its equivalent.

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 1940-41)

105A-105B Modern Spanish Drama

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)

(94)

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) (Offered in 1941-42)

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)

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.

LOWER DIVISION COURSES

1 Introduction to Geography: Elements

Post, Storm

The nature of maps; weather and the climates of the world; land forms and their associated soils, with reference to their climatic relation; the seas and their coasts. Open to all students.

Fall and Spring (3)

2 Introduction to Geography; Natural and Cultural Regions

Post, 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. Spring (3)

12 Geography of California

Storm

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

13 Regions: Advanced

Post

Special regions selected from Africa, Australia, Oceania, and Polar Areas. Prerequisite: Geography 1 and 2.

Fall (2)

UPPER DIVISION COURSES

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

Spring (3)

(95)

117 Geography of Northern and Eastern Europe

A study of the cultural development of the countries of Northwestern Europe in relation to physical background and resources. Prerequisite: Geography 1.

Fall (3)

118 Geography of the Mediterranean Area

A study of the cultural development of the countries of Southern Europe, Western Asia, and Northern Africa in relation to physical background and resources. Prerequisite: Geography 1. Spring (3)

121 Geography of North America

Storm

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

124 Geography of Asia

Storm

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

135 Geography of the San Diego Area

Directed individual rural and urban field work of San Diego area including the mapping of a small area and its geographic interpretation. Prerequisites: Geography 1, 2, and Geology 1A. Open only to liberal arts geography majors.

Fall (2) (Offered in 1939-40 and alternate years)

141 Economic Geography

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

GEOLOGY

Department requirement in Geology for liberal arts major in Physical Science includes in addition to Geology 1A-1B, the completion of: Chemistry 1A-1B, Mathematics 3A; Physics 1A-1B-1C-1D or 2A-2B; 3A-3B. Students preparing for advanced work in Geology may substitute 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 recom-

1A Physical

LOWER DIVISION COURSES

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.)

1B Historical

Brooks

Theories of earth origin, and the evolutionary history of the earth as traced through rock and fossil records. Consideration of the geologic history of selected regions. Three lectures and one three-hour laboratory 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 and Spring (3)

2B Physiography

Brooks

A study of the surface features of the earth with classification of the variety of land forms according to their cause and type. The fundamental meaning of scenery, with frequent illustration from local conditions and from the college collection of topographic maps. Two lectures and one discussion hour weekly. Prerequisite: Geology 1A or 2A.

Spring (3) (Offered in 1940-41 and alternate years)

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 1939-40 and alternate years)

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 1940-41 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

(See Foreign Languages)

HEALTH AND PHYSICAL EDUCATION (See Physical Education)

HEALTH EDUCATION

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

7-66672

(97)

(96)

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)

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

Fall and Spring (2)

90 Physiology of Reproduction (Women)

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: Sophomore

Fall (1)

91 Physiology of Reproduction (Men) A course similar to Health Education 90.

Huff

Spring (1)

151 Health Education

A course for teacher-training students which includes the study of the diseases, common physical defects, and health indices of school children; the detection and control of communicable diseases which may appear in the school; and the elements which underlie a health education program. Methods of presenting personal and group health to children of different ages. Hygiene of the schoolroom, such as seating, lighting,

Fall and Spring (2)

191 Infant and Child Care (Women)

A course 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. Prerequisite: Health Education 90. 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-IB. 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 twentyfour 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)

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) (Not offered in 1939-40)

Lesley 143 The French Revolution and Napoleonic Era An intensive study of the revolutionary period in Europe from 1789 to 1815.

Fall (3)

144 Europe Since the World War

Lesley

Developments in Europe from 1919 to the present.

Spring (3)

Lesley 146A-146B Diplomatic History of Europe Since 1648 A course centering around the four major European treaties, their background, drafting and results. First semester, the Treaties of Westphalia, Utrecht and Vienna. Second semester, the Treaty of Versailles.

Year course (3-3) (Not offered in 1939-40)

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) (Not offered in 1939-40)

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) (Not offered in 1939-40)

151A-151B England Since the Norman Conquest

Nasatir

A survey of political and constitutional development in England since 1066, stressing the transition from medieval to modern England, Tudor despotism, the struggle for self-government under the Stuarts, the rise and development of present-day political and social institutions. Year course (3-3)

156A-156B History of British Expansion

Nasatir

A study of the growth, development, and break-up of the older overseas empire: the beginnings of the newer empire after 1783; the rise, federation, and imperial relations of the British Commonwealth of Nations; the crown colony system; India under British rule; and British expansion in Africa and the Pacific; development of British mandates. Year course (3-3) (Not offered in 1939-40)

161 South America Since Independence

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

163 Mexico and the Caribbean Countries

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

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. (Not offered in 1939-40)

173A-173B The Expansion of the United States

The rise of Jacksonian Democracy; territorial expansion and the Mexican War; the slavery controversy; the Civil War, and reconstruction; the growth and progress of the United States to the World War.

(100)

199 Special Course for Advanced Students

Leonard

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

JOURNALISM

For the curriculum in journalism see page 61.

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

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 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)

53A-53B Applied Journalism

Swanson

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

UPPER DIVISION COURSES

151A-151B Newspaper Editing

Swanson

Study and practice in the editorial, headline writing and editing of newspaper copy; newspaper management.

Fall and Spring (1-1)

153A-153B Advanced Journalism Practice

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

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

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

153C-153D Newspaper Practices

Work on community publications, including county newspapers, under direction of the instructor.

Fall and Spring (2)

(101)

199 Special Course for Advanced Students Swanson

Open to seniors with sufficient journalistic background to satisfy the instructor.

Spring (2)

LIBRARY SCIENCE

10 Use of the Library

J. P. Stone

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

Fall and Spring (1)

MATHEMATICS

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

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

LOWER DIVISION COURSES

A, B, C, D, E, S, Introductory Mathematics Livingston, Wilkinson The courses A, B, C, D, and E are equivalent to those of the same name in the high school; S is an introductory course in the theory and use of the slide rule. Courses C and D are offered each semester, others less frequently. Prerequisites and units of credit are as indicated below.

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

Elementary Analysis

A general course in calculus and related topics, with applications to several fields. Not ordinarily available for students who have taken or plan to take Mathematics 3B. Prerequisites: Mathematics A, B, and D, or equivalents, with recommended grades, or permission of instructor.

3A-3B Analytic Geometry and Calculus

Livingston, C. E. Smith, Walling Analytic geometry and differential calculus, together with an introduction to the integral calculus. Prerequisites: Trigonometry and intermediate

(102)

algebra in high school, with recommended grades, or permission of the department.

Year course (3-3)

4A-4B Intermediate Calculus

Gleason, Livingston

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

Year course (3-3)

8 College Algebra

Gleason, Livingston, Wilkinson

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

Fall and Spring (2)

UPPER DIVISION COURSES

102 Selected Topics in Algebra

Gleason

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

Spring (3) (Offered in 1940-41 and alternate years)

104 History of Mathematics

Livingston

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

Spring (3) (Offered in 1939-40 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 1940-41 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 1939-40 and alternate years)

111 Theory of Equations

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

Fall (3) (Offered in 1940-41 and alternate years)

112 Analytic Geometry of Space

Gleason

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

Fall (3) (Offered in 1939-40 and atternate years)

Livingston

118 Advanced Calculus Selected topics in advanced calculus, exclusive of differential equations. Prerequisite: Mathematics 4A-4B, or 4A with 4B taken concurrently. Spring (2 or 3) (Offered in 1940-41 and alternate years)

119 Differential Equations

Gleason

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

Spring (2 or 3) (Offered in 1939-40 and alternate years)

140 Statistical Theory and Method

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

Spring (3) (Not offered in 1939-40)

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)

MUSIC

Candidates for a teaching credential in music should refer to the statement "Admission to Teacher Training Curricula" on page 26 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

LOWER DIVISION COURSES

1A Music Reading and Ear Training—Fundamentals of Music

L. D. Smith

The elements of music; scale construction; elementary music theory; drill in music reading both with syllables and with words; ear training, elementary music dictation. Basic course for all general elementary credential students. Music majors receive no credit. Fall and Spring (2)

1B Music Reading and Ear Training-Musicianship 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 (2)

1C-1D Advanced Music Reading and Ear Training 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)

2A 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)

3A 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)

6A 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)

7A 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)

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

L. D. Smith

Entrance upon examination.

Fall and Spring (1-1)

Springston

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

Entrance upon examination.

Fall and Spring (1-1)

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(104)

13A-B-C-D Orchestra

Permission of the conductor required for membership.

Fall and Spring (1-1)

15A-B-C-D A Cappella Choir

L. D. Smith

Entrance upon examination. Fall and Spring (1-1)

*16A-B-C-D Individual Study of an Orchestral Instrument Fall and Spring (1-1)

*17A-B-C-D Individual Study of Voice Fall and Spring (1-1)

*18A-B-C-D 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

L. D. Smith

Open to anyone interested in singing standard choral works. No examination required.

Fall and Spring $(\frac{1}{2}-\frac{1}{2})$

26A-B-C-D Band

Leib

Permission of the conductor required for membership.

Fall and Spring (1-1)

27A-27B Music for Enjoyment

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)

28A-28B 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)

UPPER DIVISION COURSES

103A-103B Chamber Music

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

Year course (1-1)

105A-105B Advanced Harmony and Composition

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)

(106)

106A Counterpoint

Springston

Study of the five species of counterpoint with practice in writing in such forms. Canon and two-part inventions. Application of contrapuntal style to modern composition. Prerequisite: Music 4A-4B.

Fall (2)

107A Form and Analysis

Springston

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

111A-B-C-D Women's Glee Club-Treble Clef L. D. Smith

Entrance upon examination.

Fall and Spring (1-1) (A maximum of 2 units in glee club may be counted toward the A.B. degree)

112A-B-C-D Men's Glee Club

Springston

Entrance by examination.

Fall and Spring (1-1) (A maximum of 2 units in glee club may be counted toward the A.B. degree)

113A-B-C-D Orchestra

Leib

Permission of the conductor required for membership.

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

115A-B-C-D A Cappella Choir

L. D. 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)

*116A-B-C-D Advanced Individual Study of an Orchestral Instrument

Fall and Spring (1-1)

*117A-B-C-D Advanced Individual Study of Voice

Fall and Spring (1-1)

*118A-B-C-D Advanced Individual Study of Piano or Organ

Fall and Spring (1-1)

Leib

119A Instrumental Conducting Conducting and reading of orchestral scores.

Fall and Spring (1)

120A Vocal Conducting

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)

Leib

121A Instrumentation

Arranging of music for full orchestra. Selected works of pupils to be

performed by standard orchestras.

Spring (2)

* See page 108, conditions under which credit may be given for music study under private instructors.

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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)

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 Statecertificated 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.

PHILOSPOHY

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)

5B Knowledge and Society

Steinmetz

Scientific method and the persistent problems 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

Same as Philosophy 5B, except that upper division students will be held to more exacting contribution. Spring (3)

120 Reflective Thinking

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 1940-41 and alternate years)

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130 Conduct

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 1939-40 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 26. 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, as far as possible, to his needs. 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.

1A-1B Freshman Activity

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

1C-1D Sophomore Activity

Year course, beginning either Fall or Spring $(\frac{1}{2} - \frac{1}{2})$ Class sections are so arranged that the student may choose the activity he is most desirous of learning. Fundamentals of the sports listed are taught during the class hour.

2A-B-C-D Golf Spring (1/2)

3A-B-C-D Track Spring (1)

4A-B-C-D Baseball Spring (1/2)

5A-B-C-D Basketball Spring (1)

6A-B-C-D Tennis Fall and Spring (1/2)

7A-B-C-D Boxing Fall and Spring (1)

8A-B-C-D Wrestling Fall and Spring (1/2)

9A-B-C-D Fall Track Fall (1)

10A-B-C-D Swimming Spring (1)

11A-B-C-D Fencing Fall and Spring (1)

13A-B-C-D American football (Fall (1/2)

13X-Y-Z Spring football Spring (1)

14A-B-C-D Gymnastics Spring (1)

15A-B-C-D Badminton Spring (1)

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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)

53 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 (21)

62A 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 1939-40 and alternate years)

62B 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 1939-40 and alternate years)

66 Playing Rules of Modern Games

Gross, C. R. Smith

Thorough study of latest rules of modern major and minor sports. Fall and Spring (1)

72 Principles of Physical Education

Callan

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)

154 Organization and Administration of Physical Education Gross Material presented in Physical Education 53 plus general and specific problems that confront physical education departments in junior and senior high schools and in colleges. Prerequisite: Physical Education 72. Spring (3)

155 Applied Anatomy

C. E. Peterson

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

Spring (2) (Offered in 1939-40 and alternate years)

156A Sports Methods

Gross, C. R. Smith

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

Fall (2) (Offered in 1940-41 and alternate years)

156B Sports Methods

Calland, C. E. Peterson

Methods of teaching those sports most adaptable to intramural and interclass competition: golf, handball, soccer, speedball, volley ball, badminton, tennis and track.

Spring (2) (Offered in 1940-41 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 1939-40 and alternate years)

166 Technique of Officiating

Gross

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

Spring (2)

168 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 1940-41 and alternate years)

169 Technique of Teaching Activities Physical Education Staff Directed leadership in activities. A course preliminary to practice teaching in which students are given opportunity to develop leadership and teaching technique.

Spring and Fall (1-2)

170 Recreational Leadership

Shafer

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

Spring (2) (Offered in 1940-41 and alternate years)

180 Theory of Coaching Football

Calland

Methods of coaching football. Details of teaching individual fundamentals, offensive and defensive team play, strategy, and conditioning of athletes. Two hours of lecture and three hours of laboratory.

Spring (2)

WOMEN

Women's Department Candidates for a teaching credential in physical education should refer to the statement "Admission to Teacher Training Curricula" on page 26, 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 weekly of directed physical activity are required in the freshmen and sophomore years. Freshmen students must take 1A and either 1B or 1C. All sophomore students must elect \frac{1}{2} unit of activity each semester.

1A Fundamental Skills

Bennett

Practice in efficient fundamental body movements. Required of all freshmen.

Fall and Spring (1)

1B Folk Dancing or

1C Rhythmic Skills

Fundamental movements, simple dance forms and improvisation. Required of all Freshmen. Both 1B and 1C required of all women candidates for the special credential in physical education.

Fall and Spring (3)

Sophomores may elect from the following: Physical Education Staff

2A-B Folk Dancing

3A-B-C-D Natural Dancing

4A-B Social Dancing

5A-B Archery

6A-B Badminton

7A-B Golf

8A-B-C-D Seasonal Sports

9A Stunts and Tumbling

10A-B-C Swimming and Life Saving

11A-B Tennis

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

51 Safety Education

Bennett

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

Fall (1) (Offered in 1938-39 and alternate years)

53 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 (21)

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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 185. (see page 114)
- 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.

153 Administration of Secondary Physical Education 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 1938-39 and alternate years)

155 Applied Anatomy

C. E. Peterson

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

157A-157B Sports Methods

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)

160 Principles of Teaching Gymnastics

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

Fall (2) (Offered in 1939-40 and alternate years)

161 Folk Dancing

Schwob

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 1939-40 and alternate years)

164A-B Advanced Dancing

Schwob

Prerequisite: Physical Education 1C or 3A, or equivalent. Year course (2-2) (Offered in 1938-39 and alternate years)

168 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 1940-41 and alternate years)

169 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 Scout craft, Camp Fire lore, Girl Reserve activities, the study of school recreational needs and facilities, and of civic recreation. Open to all upper division women. Recommended to students interested in the recreational aspects of social service.

Spring (2) (Offered in 1940-41 and alternate years)

173 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 1940-41 and alternate years)

177 Individual Program Adaptations

Schwob

Adjustments of the physical education program to the physical needs and capacities of individuals: problems concerning protective and preventive measures which are not highly specialized corrective phases. Spring (2) (Offered in 1940-41 and alternate years)

185 Technique of Individual Sports

Shafer

A course summarizing rules, teaching methods, and individual playing ability. A required senior course. Can not be taken until all requirements regarding sports and games have been fulfilled. (See page 113)

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: Twentyfour 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

LOWER DIVISION COURSE

1 Introductory

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

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school or college physics and chemistry or either of these subjects combined with astronomy or geology.

Fall and Spring (3)

PHYSICS

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

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

LOWER DIVISION COURSES

1A-1B General; Mechanics and Heat

Moe, L. E. Smith

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

Year course (3-3)

1C-1D General; 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

L. E. Smith

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 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 1940-41 and alternate years)

Baird

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

Fall (3) (Offered in 1940-41 and alternate years)

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107A-107B Electrical Measurements

Baird

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

Year course (3-3) (Offered in 1939-40 and alternate years)

108 Modern

Baird

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

Spring (3) (Offered in 1940-41 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 1939-40 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 1939-40 and alternate years)

199 Special Study

Baird, Moe

Reading or work on special problems in physics. Admission by consent of the instructor. Credit and hours to be arranged in each case. Open to students who have completed at least eight units of work in the department with grade of A or B.

Fall and Spring (1 or 2-1 or 2)

POLITICAL SCIENCE

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

_eonard

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) (Not offered in 1939-40)

113 American Political Ideals

Leonard

Underlying theories and principles of American governmental policy.

Spring (3) (Not offered in 1939-40)

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)

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143A-143B Principles of Public Administration in the United 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)

175A-175B American Constitutional Development

Leonard

A study of the work of the Convention of 1787, and of significant phases of American constitutional law.

Year course (3-3)

PSYCHOLOGY

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

LOWER DIVISION COURSES

1A General

Staff

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 personality traits, and achieving success and happiness. Survey of psychology as applied in education, music, art, speaking, writing, law and medicine. Prerequisite: Psychology 1A. Recommended: Psychology 1B. Fall (2)

4B Psychology Applied in Business

Applications of psychology to a wide range of problems encountered by the man in business. Motives, attitudes, habits, and traits in their relation to behavior of employer, employee, and executive. Advertising, salesmanship, and problems of selecting, placing and increasing the efficiency of employees. Business cycles, and business research. Prerequisite: Psychology 1A. Recommended: Psychology 1B and Psychology 4A. Spring (2)

UPPER DIVISION COURSES

102 Genetic (Growth and Development of the Child)

Burlingame, Steinmetz

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

Fall and Spring (3)

105 Mental Testing

Burlingame

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

Fall (3)

118 Mental Hygiene

Barbour

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 and 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.

Spring (3)

150 Abnormal Psychology

Steinmetz

The relation of psychology to the psycho-neurosis and insanity; the appearance of abnormal traits in incipient stages of mental disturbances. Methods of diagnosis and early treatment.

Fall (3)

160 Experimental Psychology of Learning.

Burlingame

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 for those seeking a major.

Fall (3)

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, social economics.

Liberal arts major (upper division) in social science, required: Twentyfour 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, social economics.

LOWER DIVISION COURSES

Contemporary Political, Social and Economic Problems

Greer, Rogers

An analysis of major problems of the present day with reference to the conditions out of which they arise and with regard to their essential unity and interrelationships and an attempt to introduce the student to sound methods of approach in dealing with these problems.

Fall and Spring (3)

SOCIAL ECONOMICS

LOWER DIVISION COURSES

50 General Sociology

Kelly

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

F. Perry

A psychological and sociological approach to the problems of marriage and the family life. Content of the course reflects the expressed needs and desires of former students. Some of the topics considered are: romance and realism in love and marriage, emotional maturity and the approach to 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 Science of Sociology

Hinkel

A critical analysis of social processes and products, of the methods of sociological investigation and of ultimate tests of social policies. Fall (3)

101 Problems of the Modern Community

Hinkel

A study of the typical problems of the modern urban and rural community.

Spring (3)

103 Child Welfare

Donohue

A study of the dependent, the neglected, and the handicapped child in relation to the various movements and agencies which have developed in an efforts to cope with the problems presented by them. Fall (2)

104 Field Studies

Donohue

Exploratory library and field studies of the work of character-building and welfare agencies. Lectures, reading and field studies. Spring (2)

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E109 Fields of Social Work

Worcester

The many sided problems confronting the Social Worker, and the specialized efforts which have been developed to cope with these problems. Family Case Work, Child Welfare, Probation and Delinquency, Psychiatric Social Work, Medical Social Work, Group Activities, Community Organization.

Extension Division, Fall (2)

E110 Industry and Social Work

Worcester

A study of emergence of social problems, beginning with the Industrial Revolution, and continuing down to the present time. Child Labor, Women in Industry, Unemployment, Industrial Accidents and Diseases, Immigration, and Tenement Housing are considered among the problems. The Labor Movement, Social Legislation including programs for Social Insurance, Welfare Programs of Industry, Vocational Education, and Surveys are viewed as attempted solutions of these problems.

Extension Division, Fall (2)

E111 Social Legislation

A study of the particular problems which have given rise to Social Legislation, both by the Federal Government and by the States. Emphasis is placed upon the actual practice of Social Work as determined by these

Extension Division, Spring (2)

E112 Social Case Work

Worcester

A study of the objectives, the underlying assumptions, and the techniques of Case Work, emphasizing the fundamental concepts which underlie "generic case work," and indicating the modifications which are essential for its adaptation to various fields. Case work is here presented as a developing process as it avails itself of the contributions of modern science, and attempts to meet the changing problems of our industrial life. Extension Division. Spring (2)

SOCIAL PSYCHOLOGY

(See Psychology)

SPANISH

(See Foreign Languages)

SPEECH ARTS

LOWER DIVISION COURSES

Johnson, Pfaff

1A Fundamentals of Public Speaking 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)

Pfaff

1B Extemporaneous Speaking (or Forum Speaking) 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

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opportunity of assembling facts quickly to meet such questions as any audience situation might demand.

Spring (3)

1C Oral Interpretation

Pfaff

The oral interpretation of longer literary selections, both in poetry and prose; a fundamentals course designed for the beginning students in drama as well as those majoring or minoring in English literature. Fall (3)

1D Advanced Interpretation

Pfaff

Emphasis placed on stage poise and grace with adequate attention given to variations in the presentation of literary selections. Much opportunity is provided for individual and group creative work. No prerequisite. Class limited.

Spring (3)

20 Corrective Speech

Pfaff

Corrective laboratory training prescribed on the basis of vocalization tests made on Electro-Vox Recording Machine. Required of education majors who fail to meet speech requirements test. Private clinical assistance given to stutterers and lispers.

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

55A-55B Dramatic Production

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 1939-40 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 1940-41 and alternate years)

60B 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)

UPPER DIVISION COURSES

110 Recreational Reading See English, page 89.

Dickhaut

152A Survey of Drama: Comedy See English, page 91.

Evans

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152B Survey of Drama: Tragedy See English, page 91.

Evans

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 1939-40 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 1940-41 and alternate years)

163 Rhythm, Pantomime and Choric Verse

Jones

A course planned for those desiring to engage in special drama activities, or to utilize the newer forms of dramatic expression. Spring (3)

175 Major Speech Disorders

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

(See Life Science)

FACULTY

For the Year 1938-39

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^{*} Junior College.

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700 LD	Aeronautics Mechanics Institute
FRANCES TORBERT, A.B	Instructor in Commerce

^{*} Junior College,

^{*} Junior College.

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C. L. FISK	Superintendent of Buildings ar	d Grounds
ALBERT B. CHRISTO	OPHERHead	l Gardener
A. L. SEELIG		Engineer

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