## SAN DIEGO STATE COLLEGE

BULLETIN

Circular of - Information

ANNOUNCEMENT
OF COURSES


FOR THE YEAR 1944.1945

## STATE DEPARTMENT OF EDUCATION



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## BULLETIN AND ANNOUNCEMENT OF COURSES

VOLUME 31
JUNE, 1944

SAN DIEGO STATE COLLEGE SAN DIEGO, CALIFORNIA

| 1944 |  |  |  |  |  |  | 1945 |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| s | M | T | w | 1 | F | 5 | s | M | 1 | W | T | F | s | 5 | M | T | W | T | F | s |
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## CALENDAR 1944-1945



SUMMER SESSION, 1944.
Term I, six weeks, June 26-August 4.
Term II, three weeks, August 7-August 25.
FALL SEMESTER, 1944-1945.

September 1

September 5

September 8

September 12
November 23-24
December 8
January 2
January 25-31

Applications for admission must be filed on or before this date.
Entrance examinations for all entering Freshmen who have not previously taken these examinations. No Freshman will be granted admission until these examinations have been taken. Orientation Program. All entering Freshmen must appear lasting throughout the entire day.
$\mathrm{s}: 30 \mathrm{a} . \mathrm{m} .-12: 00 \mathrm{~m}$. Fundamentals Tests-Required for Fundamentals Tests-Required for Should be taken at the end of the first semester of the Freshman year where possible.
College Aptitude Test for students entering with advanced standing.
$1: 00-2: 30$ p.m.
Registration and payment of fees.
Instruction begins. Late registration fee becomes effective. Thanksgiving Recess.
Last day before Christmas Recess begins.
Classwork resumes.
Semester Examinations.

## SPRING SEMESTER, 1944-1945.

January 25
February 2

February 5
February 6
March 26-30
May 30
June 7-13
June 15

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

Orientation Program. All entering Freshmen must appear on the campus for this program, beginning at 8 a.m. and lasting throughout the entire day.
$8: 30 \mathrm{a} . \mathrm{m} .-12: 00 \mathrm{~m}$. Fundamentals Tests-Required for admission to Teacher Education. Should be taken at the end of the first semester of the Freshman year where possible.
College Aptitude Test for students entering with advanced standing.
Registration and payment of fees.
Instruction begins. Late registration fee becomes effective. Spring Recess.
Memorial Day Holiday.
Semester Examinations.
Annual Commencement.

SUMMER SESSION, 1915
Term I, June 25 -August 3 .
Term II, August 6-24.

## FUNCTIONS OF THE STATE COLLEGES OF CALIFORNIA

The State Colleges have three major functions, namely, (1) to help the individual student to develop a well-rounded and adjusted personality; (2) to promote civic intelligence and competence; and (3) to create supplies of trained men and women, some to serve as teachers in the elementary and secondary schools, some to fill intermediate places of leadership, and some to transfer to graduate institutions to equip themselves to extend the frontiers of knowledge and to occupy the higher positions of leadership. In terms of publicly supported higher education, the State Colleges and the University together make provision for the realization of all the essential objectives of higher education in our State.
To achieve their unique purposes the State Colleges have developed and are improving offerings as follows:

1. Teacher education curricula for those students who plan to teach in the elementary school, the junior high school, and in the special fields in all secondary schools.
2. Preprofessional curricula.
3. Curricula of varying lengths in such fields as business, industry, governmental services, homemaking, and social service.
4. General education for students who take work which leads toward the bachelor of arts degree or to the higher professions through graduate work.
5. Guidance services to assist the individual student to plan his educational program and to make his college and life adjustments.
6. Extension courses in appropriate fields.

The State Colleges accept the principle that higher education should be available to all capable high school graduates. The preservation and improvement of democracy depends upon the full and unhampered development of all potential citizenship and leadership resources. In keeping with this principle the State Colleges maintain his potential capacity and his. Each applicant is treated individually in terms of his potential capacity and his potential contribution and not in terms of past academic pattern or accomplishment alone.
The State Colleges purposely maintain not only flexible entrance requirements, but also, adjustive curricula, and adequate and effective guidance and counseling services Colleges modify traditiond educational development of worthy students. The State services whenever such mal academic restrictions and provide new curricula and desirable needs of individuals and society additions seem to serve the legitimate The promotion of civic intellis and society.
The promotion of civic intelligence and competence is the underlying aim of all activitionships between ine campuses. Special emphasis centers on warm personal relaon the day-to-day instructors and students, on friendly counsel in time of need, and of State College students live at in a friendly atmosphere. Because the majority home, and the community live at home, it is possible to link together the college, the The demoeratic community in realistic democratic relationships.
effectively responsed controls exereised over the State Colleges make them readily and effectively responsive to individual and community needs and encourage them conThe State Colleges aricant improvements in both eurriculum and personal services. in researeh, in coges are thus laboratories in which the facts and theories developed in the instructional program living, and in daily association with students are reflected The State Colle proram.
The State Colleges plan their program of higher education so as to provide educational services inherent in the principle of equality of opportunity.

## THE COLLEGE

## Location and Environment

Renowned as a winter resort with a mild but invigorating climate, San Diego has become equally famous for its cool summers. High cultural standards in art, music, literature, and science ereate 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 niversity of California at La Jolla, gives opportunity for important cooperation in the biological sciences.

## Buildings and Equipment

On February 1, 1931, the college was moved to the new campus, located one mile north of the city's principal east-west boulevard, El Cajon Avenue. The building north of the city s primemaleatish are whieh 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 Music Building; the Campus Elementary School; Scripps Cottage (a social clubhouse 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 preesnt needs. The open air theater, seating 4200 persons, serves as a meeting place for large groups.

## Facilities for the Education of Teachers

The college maintains a modern elementary school on the campus where it has developed an extensive program for the education of elementary school teachers. The classroom-laboratory plan which calls for the use of work-rooms, the library and shops, affords unusual opportunities for the induction of students into teaching. By arrangement with the San Diego City Schools, directed teaching is provided in the Euclid elementary school for one-half day throughout a semester. A similar arrangement exists at the Woodrow Wilson Junior High School for students who are preparing to teach junior high and special sespiects may be assigned to one of 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 80,000 volumes selected to meet the requirements of a modern educational institution. Six professionally trained librarian
For the duration of the war the library service has been further augmented by the For the dial libries, namely, a collection of 3,000 volumes loan of a librarian and three speciai and Ethnology from the San Diego Museum of Man, the U. S. on Anthropology of the San Diego Society of Natural History.
The Campus Elementary School Library, representing a collection of 11,000 volumes, possesses equipment and building facilities that are unique.

## Living Accommodations

The college does not maintain dormitories since nearly all of the students live with parents or guardians. Living arrangements for students whose homes are not in San Diego or within commuting distance are made through the offices of the Dean of Women or the Dean of Men. All women students are urged to live in the residence hall adjoining the campus. Careful consideration is given to study conditions, healthful living, and adequate social opportunities. Room and board may be secured for approximately $\$ 200$ per semester, payable in four installments. Opportunities to Reservations should be made in a few hours each week are occasionally available. College Avenue, San Diego 5, California. Where students find other accommodations more desirable, written permission from parents must be secured and filed with the Dean of Women or Dean of Men.

## Student Life

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

## Student Health Service

The Health Department is maintained for the protection and care of student health. A complete physical examination is required of each student upon admission to college. Careful attention is given to cases undergoing remedial treatment or to cases in which a modification of study load or in the amount of participation in physical activities seem advisable.
A representative of the Health Department is available a part of each 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.
A group plan for accident insurance is in operation for students who desire to
participate.

## Placement Service

A Placement Office is maintained by the college, which serves as a clearing house for part time and full time jobs. Employers notify this office of available openings in their organizations, and also turn to the office for information concerning graduates Included in the whom they are considering for employment.
Included in the service of the office are the listing of part time jobs of all types and full time and full time jobs in commerce and industry.
This service is free to students, who are invited to arrange for interviews with who know of jobs in which staff if in need of assistance in finding work. Students notify the of otify the office of such vacancies.
The Placement Secretary should be seen or called regarding vacancies or work applications

## Vocational Rehabilitation Service

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

## FEES AND EXPENSES

## Probable Expenses for One Semester

An estimate of the expense of attendance for one semester is given below. No estiAn estimate of the expense of attendance for one semester is the cost of conthing, or other personal items, since these mate is made as to the cost of clothing, or other personal items, since

A Partial Estimate of Expenses

|  |  | Minimum | Maximum |
| :---: | :---: | :---: | :---: |
| Fees and Deposits |  | \$20.00 | \$27.50 |
| Books .-.-.- |  | 12.00 | 20.00 |
| Board and Room |  | 200.00 |  |
| Incidentals : |  |  |  |
| Transportation |  | 10.00 | 20.00 |
| Lunches (daily in cafe) |  | 35.00 | 50.00 |
| Organizations : | Average |  |  |
| Fraternity |  |  |  |
| Initiation and pin_.-.- | $\$ 16.50\}$ | \$7.50 | \$25.00 |
| Dues and Assessments | $5.50\}$ | \$7.50 | \$25.00 |
| Sorority |  |  |  |
| Initiation and pin_.... | $16.00\}$ | 16.75 | 25.00 |
| Dues and Assessments | 8.005 | 16.75 | 20.00 |
| Miscellaneous - |  |  | 5.00 |

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

## ${ }^{1}$ List of Fees and Deposits (Subject to Revision) <br> ENROLLMENT FEES AND DEPOSITS

payable at time of registration
By all students :
Tuition:
Regular students (carrying over 5 units) $\$ 6.50$


Materials and service :
Regular students ..... 4.00
Limited students per unit ..... 50
General service deposit (unexpended portion is refunded) ..... 2.00
(Iinel examination (new students only) ..... 2.00
${ }^{1}$ Auditors pay same fees as students enrolled for credit
${ }^{2}$ Auditors pay same fees as
${ }_{2}$ Not required by the State.

## MISCELLANEOUS FEES AND DEPOSITS

## deposits payable before laboratory work ts started

Geology $21 \mathrm{~A}-21 \mathrm{~B}$
fees payable when service is rendered
Change of program .50
College Bulletin (free to prospective students) .20
Duplicate library card
Duplicate registration book .10

| 1 Wraluation |  |
| :--- | :--- |

${ }^{1}$ Evaluation of records for advanced standing

${ }_{2}$ Trate registration ......................... 1.00
.50

## GRADUATION FEES

State Teaching Credentials (each eredential)
Kindergarten-Primary
General elementary
General Junior High
Special secondary
School administration
Diploma
The credential fee is collected through the college by cashier's check or post office money order made payable to the State Department of Education.
${ }^{1}$ Paid by all students entering with advanced standing.
${ }_{2}$ The 50 -cent fee must accompany
cents will be charged for each duplicate of this record which transcript of record. Ten

## ADMISSION AND REGISTRATION

## General Admission Requirements

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

Admission of High School Graduates. (1) A high school transcript must be presented showing satisfactory scholarship, and (2) applicants must demonstrate readiness for college instruction by making satisfactory scores on such tests as the college may designate.
Students will be granted regular status if they have earned recommended grades * in not less than 16 semester courses in English, Social Sciences, Foreign Language, Mathematics, Natural Sciences, and related fields, during the tenth, eleventh, and twelfth years in high school.

Provisional regular status will be granted if the student has earned recommended grades * in not less than 12 semester courses in the above subjects. The student will attain full regular status at the end of the first semester in college if a scholarship average of C or better is maintained in at least 12 units of work. Failure to secure a C average will disqualify the student for further attendance.
Students who do not qualify for regular (provisional) status may enroll in one of he two-year curricula if they have earned recommended grades * in at least 12 semes ter courses during the tenth, eleventh, and twelfth years in high school. Individuals who fall slightly below this standard may be admitted to the two-year curricula if qualifying examination scores indicate probable success in these courses.
Admission by Examination. Certificates of successful examination before the Col lege Entrance Examination Board will be accepted when candidates can not meet the above scholarship requirements.

Admission With Advanced Standing. Credit earned in recognized institutions of ollegiate grade will be evaluated and advanced standing allowed accordingly toward the graduation requirements of this institution. Applicants must show an average grade of C or better for all college work, for the last college attended, and for the last semester of attendance in order to qualify for regular status. A student who enters with advanced standing is one who has completed at least 15 units of passing work in another collegiate institution. However, no applicant may disregard his collegiate record and apply for admission only on a basis of his high school work. Not more than 64 semester hours of junior college work may be allowed for credit.
Students seeking admission with advanced standing must furnish complete transcripts for all work attempted beyond the eighth grade. A $\$ 2$ evaluation deposit must accompany the application for admission. This deposit will be refunded if the student enrolls at the next regular registration. This

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

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

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## Registration

Registration date for new students for the fall semester of 1944-1945 is September 8 and for the spring semester it is February 2. An application blank should be secured from the Registrar and filed, with complete transcripts of record, at least two weeks prior to registration date.
The college year is divided into fall and spring semesters of eighteen weeks each, followed by a summer session consisting of two terms of six weeks and three weeks, respectively. Students may enter at the beginning of either semester or either term of the summer session.
The summer session meets the needs of students who wish to secure supplemental credit or to shorten the time for completion of their college course, and of teachers in service.

## Tests Required at Registration Time and Later

1. A physical examination is required of all students upon entering the college. Appointments for this examination are made during the orientation program.
2. All entering students are required to take the College Aptitude Test. Exceptions may be made for graduate students and for those who register for five units or less. 3. All college transfer students who present less than a minimum of 15 units of college credit must take a High School Achievement Examination, and a standard English Examination in addition to the College Aptitude Test. Students whose tests indieate that they are not qualified for the regular English 1B must take English L1A or L1AA. Exceptions may be made for students transferring English credit from other colleges.
3. Passing the Fundamentals Test in reading, spelling, arithmetic and handwriting, and a Speech Test, are prerequisites for admission to upper division courses in teacher education curricula. These tests should be taken at the beginning of the second semester of the freshman year, in order that deficiencies, if any, may be made up before applying for admission to the upper division of teacher education curricula. Exceptions may be made for graduates of California State teacher education institutions who have been teachers in service.

## Late Registration

Students who register after the first week of the semester are subject to a limitation of program and must secure the approval of instructors for subject to a imitation After registration day a fee of $\$ 1$ is charged for late registration.

## Changes in Registration

Petitions for changes in program may be secured at the Reristra's office. A small fee is charged for changes in program after registration books are filed.

## Loans and Scholarships

Scholarships for both men and women have been made available through the efforts of alumni, patrons of the college, and civic organizations. Superiority in scholarship and worthiness from the point of view of need are the standards upon which seleetion 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 office of the Dean of Men or Dean of Women.

## GENERAL REGULATIONS

## Officers for Consultation

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

## Classification

Full time Students are those who are registered in more than 5 units of work. They are expected to carry a minimum of 12 units unless excused.

Limited Students are those who, for acceptable reasons, have been permitted to register for 5 or fewer units of work.
Adult Special Students are mature students who have not satisfied all entrance requirements, but who have been permitted to register for such courses as their ability and preparation justify. Special students may also be limited students.
Regular Students are those who are qualified to enroll in curricula leading to the Bachelor of Arts degree

Regular-provisional Students are those whose high school records are slightly deficient in recommended grades. They are permitted to enroll on trial for one semeser in a regular curriculum. If they make a C average in 12 or more units they automatically attain regular status.
Two-Year Students are those who do not qualify for regular status because of deficiencies in high school scholarship, but who have been permitted to enroll in an djustive curriculum. These students are not permitted to enroll in courses applying regularly toward the Bachelor of Arts degree except by permission of their adviser
until they have earned regular status through satisfactory scholarship.

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

## Scholarship, Grades, and Grade Points

The following grades are used in reporting the standing of students at the end of each semester: A, excellent; B, good; C, fair ; D, passed ; E, conditioned; F, failed; I , incomplete, and W, withdrawn.
The grade E is recorded for work which is of low order but which may be made passable. If the work is raised to passing level by the close of the next semester, the grade is changed to D ; otherwise it is changed automatically to $\mathbf{F}$

The grade I is recorded for work of high order but which is incomplete for an acceptable reason. To change an I to another grade, the work must be completed within the next semester ; otherwise it is changed to F .
Grade points are assigned as follows: Grade A, 3 points per unit; B, 2 points per unit ; C, 1 point per unit ; D, no points ; E, minus 1 point per unit; F , minus 1 point per unit. The number of grade points a student has earned in a subject is determined per unit. The number of grade points a student has earned in a subject is dity the number of points he has received by the number of units allowed. The grade point average is determined by dividing the grade points earned by the number of units attempted. Courses in which the student received an I or Cr, or W are disregarded in computing grade point averages. A student must earn at least a C average in all work undertaken at the college to qualify for a diploma or a transcript of record with recommendation to another collegiate institution.

## Units of Work, and Study Lists Limits

A unit of credit represents one hour of lecture or recitation combined with two hours of preparation per week through one semester, or three hours of laboratory or field work in the case of laboratory credit.
Students are not ordinarily permitted to enroll for more than 16 units* for credit toward graduation. This constitutes a normal semester's program.
Certain exceptions to this rule exist. If during the preceding semester the student has carried at least 12 units*: (1) if a grade point average of at least 1.5 was earned, 17 units * may be carried for credit toward graduation, and (2) if a grade point average of $2.0(\mathrm{~B})$ was earned, 18 units * may be carried.
Any course in which a passing grade is earned may be used in satisfying pattern requirements, even though credit for the course is in excess of the units which may be credited for graduation.
Exceptions to the above regulations may be secured only through a petition to the Scholarship Committee.
No student may register for less than 12 units without the approval of the Dean of Liberal Arts or the Dean of Education.

## Probation and Disqualification

Probation. Any student whose scholarship record shows-a cumulative deficit of 12 or more grade points below a $C$ average for all work undertaken in the college will be placed on probation. A limited student will be placed on probation if his cumuative deficit below a $O$ average equals or exceeds the average number of units carried not add further toward his grade point be continued provided that the student does not add further toward his grade point deficiency.
Disqualification. Any probational student whose scholarship falls below an average grade of $C$ in any single semester is disqualified for further attendance at the college. A scholarship record below a $D$ average for any single' semester also disqualifies a student.
A disqualified student may be reinstated after an interval of one semester for reasons satisfactory to the Executive Committee of the Faculty. All applications for reinstatement must be in writing.

## Withdrawals from Class

Forms for withdrawal from class may be obtained at the Registrar's office. If a $W$ will be recorded upom class during the first seven weeks of a semester, a grade of If he withdraws during the remainder record for each class which he has dropped. If he withdraws during the remainder of the semester, either an $I$ or an $F$ will be recorded unless a grade of $W$ is approved by the instructor and the proper dean. A grade of $I$ automatically becomes an $F$ unless the work is completed by the end of
the next semester. the next semester.
Students who withdraw from all elasses during a semester must petition the Admissions Committee for readmission.

[^1]
## Transcripts of Record

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

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

## Eligibility for Directed Teaching

No student shall be eligible for directed teaching (Education 116) who has not completed 75 units, been admitted to Teacher Education, and whose entire record, as well as his record for the preceding semester, does not average at least a 12 grade,

## The Honors Group

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

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

Upon recommendation of the Committee on Honors, graduation with honors shall be granted to the upper 10 per cent of the graduating class. Each department shall determine which students it will recommend for Distinction in the major field at graduation, and report its recommendation to the Committee on Honors for transmission to the faculty.

## Examinations

No final examinations shall be given to individual students before the regular time Any student who finds it impossible to take a final examinaton on the date scheduled must make arrangements with the instructor to have an incomplete grade reported semester following that in which the incomplete was given. No exceptions shall be
made to this rule without the approval of an academic dean and the instructor concerned.

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

## Extension Courses

An extension program covering a wide range of offerings is made available each semester. Members of the regular college faculty and others expert in special fields instruct extension classes. The extension program is designed to serve the needs of San Diego and neighboring communities for courses on the college level that are not available on the campus, or that should be offered at times and places more convenient to special groups. Extension courses are considered the equivalent of campus courses and the amount of credit available to any one student in one semester through extension courses or a combination of campus and extension courses is subject to the same study-load limitations that apply to students regularly enrolled for campus courses. Fees for extension courses vary somewhat with the place where the instruction is offered, but will not exceed $\$ 6$ per unit for the year 1944-1945.
Information concerning extension offerings may be obtained on application to the Director of Extension Service.
The amount of credit for extension and correspondence courses acceptable in fulfillment of the requirements for the Bachelor of Arts degree will depend upon the nature of the courses, the quality of the work done, and the student's preparation for work in the field of the course. The college reserves the right to limit credit to such courses as have been approved, and the total of such acceptable credit to 12 units.

## THE BACHELOR OF ARTS DEGREE

## General Requirements for the Bachelor of Arts Degree

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

A minimum of 120 units of college work, representing a four-year course, is required for the Bachelor of Arts degree. At least 30 units must be earned in this college, and not less than. 24 of these residence units must ordinarily be taken with the rank of semester - 12 units of this work must be completed during a single semester, or inser in not less a in the major and in all work applied toward the degree.

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

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

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

## LOWER DIVISION

## Subject Matter Requirements in the Lower Division



Psychology 6 units
3 units

Mathematics LA and LB, 4 units, or high school algebra and geometry


**Year-course in foreign language or in mathematics, or in philosophy.
(This year-course is an additional requirement to those listed above)

## Electives to make total of 60 units. 1

* Not required in the teacher education and general engineering curricula.
**Not required in the teacher education curricula.
$54-113$ Electives should include lower division preparation for the major. See pages See page 19 .


## Explanation of Lower Division Requirements

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

## Psychology. Psychology 1A

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

## HIGH SCHOOL COURSES

The foreign language requirement may be met in part or in whole by high school work completed with grade of C or better, each year course being counted in satisfaction of 3 units of this requirement. Three years of foreign language in high school will satisfy the college requirement in foreign language. No foreign language credit is given for only one year of a high school course unless the grade is $\mathbf{B}$ or better or unless the course completed with $\mathbf{C}$ grade is continued in college. If two or more years have elapsed since the completion of a high school course in any foreign language the final year of the course may be repeated for college degree credit but not for additional credit in meeting the language requirement.
Social Sciences. ${ }^{1}$ Twelve lower division units chosen from two or more departments are required in this field. All students must present credit for Social Science 1 A or for an acceptable equivalent.

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

## HIGH SCHOOL COURSES

Two semesters of fourth year high school courses in the fields of history, political science, sociology, and economics taken with grades of $\mathbf{B}$ or better may be used in satisfying 3 units of the social science requirement.
Natural Sciences. ${ }^{1}$ Twelve lower division units chosen from courses representing each of the following groups are required:
(a) Biology 1 or a year course in high school or college biology, botany, physiology
(b) Physical Science 1A or 1B or a year course in high school or college chemistry or physics.
(c) Lower division courses to meet the natural science requirement must be taken from the following lists and must include one of the college or high school 1* ; Biolog courses marked with an asterisk: Astronomy 1, 2, 9; Bacteriology $7-8^{*}$; Geography 1 or 3 ( only one cour,* $2 \mathrm{~B},{ }^{*} 4$; Chemistry $1 \mathrm{~A},{ }^{*} 1 \mathrm{~B}, * 2 \mathrm{~A}-2 \mathrm{~B},{ }^{*}$ Geology 1A, 1B,* 2A, 2B; Physical Science be counted toward requirement); $3 \mathrm{~A}-3 \mathrm{~B},{ }^{*}$ 1C-1D,* 54 ; Physiology 1A, 1C* ; Zoology 1A, ${ }^{*} 1 \mathrm{~B},{ }^{*} 8,20$. ${ }^{*}{ }^{*}$. $2 \mathrm{~A}-2 \mathrm{~B}$,

HIGH SOHOOL COURSES
A maximum of one year ( 3 units) of courses in botany, chemistry,* physies,* physiology, zoology, and advanced biology taken in the senior year with grades not lower than B may be used in satisfying the 12 unit natural science require-
ment. ment.

Mathematics. High school elementary algebra and high school plane geometry completed with at least C grades or a year course in Mathematics LA-LB.
${ }^{1}$ Teacher education students should follow carefully the curricular outlines to

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

Modern foreign language: any two consecutive college courses, or any two consecutive high school year courses.
Latin: Two years of high school courses in Latin.
Mathematics: C, or D, or equivalent, and either 1, 3A, or 8. Students with the Commerce major may take Mathematics C, or equivalent, and Economics 2.

## Philosophy: 3A-3B, 5A-5B

Lower Division Preparation for the Minor. See description of requirements for liberal arts minors on page 20 and for teaching minors on page 22.
Lower Division Preparation for the Major. See description of requirements for teaching majors on page 21. Specific requirements for the majors in the liberal arts curricula are listed in connection with the descriptive list of courses in each major field (see pages 54-113).

## Limited Electives

A total of not more than 12 units of limited and vocational courses listed below will be counted toward the A.B. degree in Liberal Arts (for limitation in Teacher Education see page 24). Courses in education are included in this list principally because the major emphasis in the liberal arts program is non-professional and non-technical L129, L163; Education, all courses except those listed as available for credit toward a minor (see Education minor on page 20); English L1A, L1AA, L8; Health Education L151; Journalism L53A, L53B, L153A, L153B; Library Science L10; Mathematics LiA, LB; Merchandising, all courses; Music, L1A, L2A, L3A, L6A, L7A L16A-B-C-D, L17A-B-C-D, L18A-B-C-D, L28A-L28B, L116A-B-C-D, L117A-B-C-D L118A-B-C-D; Physical Education, all courses beyond the requirements specified in the curricular patterns except $30,51,170$; Secretarial training, all courses ; all courses numbered L40 and L45 if grade is below B.

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

UPPER DIVISION
Subject Matter Requirements
Political Science 101
4-innots
$\qquad$ 2 units
Major (upper division courses) --- courses) 6 units
4 units
At least 40 units in upper division courses must be completed, 30 of which must be earned after all lower division requirements have been satisfied.

## Explanation of Requirements

Political Science 101. Political Science 113 or 175A-175B or History 171A-171B or 173A-173B will be accepted as substitutes for this requirement.
Minor. Minors must be established in one of the following fields : anthropology, art, botany, chemistry, economics, education, English, foreign language, geography, geology, history, journalism, mathematics, music, philosophy, physies, political science, psy-
chology, sociology, speech arts, and zoology. chology, sociology, speech arts, and zoology.
A minor consists of at least 12 units of work completed in one of the above fields of junior or senior years. The entire requirement for in upper division courses during division courses provided these courses have no a minor may be met with upper requisites for each course are listed among the course descriptions on pages 54 to 115 .
Minor in Education. A student who desires to satisfy the undergraduate requirements for the general secondary teaching eredential will minor in education. He should include in his program a major in a subject or field of subjects usually taught in high sehool and a minor in the field of education. In order to conform to the usual university requirements, this minor should include Education 102A-102B (or Education 130, and Psychology 102), and Education 115A-115B. Consultation with the Dean of Education or the Dean of Liberal Arts is recommended.
Majors. The specific requirements for each major are listed at the beginning of each student is advised to choose his major as an of courses. (See pages 54 to 113.) The that he may be able to plan his work according in his college course as practicable so meet the lower division requirements of the major department before the Failure to may make it impossible to satisfy the upper major department before the junior year period of two years.

## Professional and Preprofessional Courses. See pages 37 to 48 .

## The General Major

The general liberal arts major of 36 upper division units must be chosen from three departments with not more than 15 units from any one department allowed. This comprehensive major may be arranged to include minor requirements.
The general major is planned for students who are preparing for law, journalism, It is available flso any other voeation requiring a background of general training. present satisfactory reasons for not speciglizing in a cultural education and who can is not a part of a four-year curriculum publish in any field. When the general major program of the student should be planned in coned in the college bulletin the tentative and approved, revised, or rejected by the cheirmen of thith the Dean of Liberal Arts the major.

## Specific Upper Division Requirements for the Teacher Education Curricula

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

1. A satisfactory score in a college aptitude test taken at the college. (See college calendar for date of test.)
2. Evidence of satisfactory ability in arithmetic, handwriting, reading and spelling indicated by having passed the fundamentals test. (See college calendar for date of test.)
3. Assurance of correct speech habits and voice control by having satisfactorily completed a course in corrective speech or by having passed a speech test given by the college.
4. Assurance of physical fitness by having passed a prescribed examination given by one of the college physicians.
5. If the student is to be a candidate for one of the special secondary credentials, he must furnish a recommendation from the chairman of that department stating that the student has ability and shows promise of teaching success in his field and that the department looks with favor upon his application.
6. The completion of the first two years or more of a given curriculum, or its equivalent, with a grade point average of 1.2 or better.
After the student has submitted evidence of having met the preliminary requirements in his application for admission to the teacher education curricula he will be interviewed by the members of a committee appointed by the faculty for this purpose. In the appraisal of applicants the committee gives careful consideration to the following factors established by the State Board of Education: intelligence, scholarship, prosided interests.
Transfer Students. Students who have completed two or more semesters of work in another college, upon transferring to San Diego State College, should make application for admission to teacher education as soon as they enroll in the college. It will be advantageous for transfer students to present themselves for the necessary tests given during the orientation period preceding enrollment in the college.
Advanced Standing in Teacher Education. A maximum of 18 units in courses in education will be credited toward degree requirements in case such work was taken more than five years before entering upon the degree curriculum at this college (date of first work taken after an evaluation of record has been made, for students entering with advanced standing).
After an interval of five years, evaluations are subject to revision in the light of such new requirements as may have been put into effect and with respect to deduction in credit in education courses.
Students formerly in attendance will not be considered to be working in the degree curriculum until an evaluation and statement of credit has been secured from the Registrar's office. All courses taken either at this college or elsewhere must be approved by an official adviser or the Assistant Registrar (for those taken elsewhere) in order to be credited toward meeting degree requirements.

Teacbing Major Defined. A teaching major consists of a minimum of 24 units in a field other than education, at least 12 of which must be in the upper division. A $C$
average in scholarship is required in all upper division courses in the field of the teaching major. A major for a special secondary credential varies from 24 to 40 units as specified in the requirements for the various curricula. Teaching majors may be established in the following fields: English, foreign languages, general sciences, mathematics and social sciences (anthropology, economics, geography, history, political seience, sociology) and in the special secondary credential fields of art, business education, music, physical education, and speech arts.
Teaching Major in English. Candidates for the teaching major in the field of English are expected to show eredit in English 1B or 1C and 9 elective units of lower division work and in 12 units of upper division work. This eredit must inelude 3 units in American Literature (either lower or upper division) and 3 units in Shakespeare.
Recommended : English 2D and 112.

Teacbing Major in General Science. Candidates for a teaching major in the field of general science are required to include a college year course in a biological science, a year course in high school or college physics and a concentration of 12 units, at least 6 of which are upper division, in one major subject (botany, chemistry, physics, zoology). See definition of teaching majors.
Teaching Major in Social Science. Candidates for a teaching major in the field of the social sciences are required to include in their programs a year course in modern American history and a concentration of 12 units, at least 6 of which are upper division, in one major subject (anthropology, economies, geography, history, political science, sociology). See definition of teaching majors. The following courses may not be 18A-18B, 140, 160A-160B $, 161,162,163,164$ the social sciences; Economics 14A-14B, $18 \mathrm{~A}-18 \mathrm{~B}, 140,160 \mathrm{~A}-160 \mathrm{~B}, 161,162,163,164,165$; and all courses in merchandising.
Teaching Minor Defined. A teaching minor consists of 12 units in a given field, at least 6 of which must be in upper division courses. Teaching minors may be established in the following fields : art, business education, English, foreign language, general science, political scie, music, social sciences (anthropology, economics, geography, history,號 science, sociology), physical education,
Teacbing Minor in English. Candidates for the teaching minor in English must show in upper division English. This units of lower division work; and in 6 elective units in upper division English. This credit must include 3 units in American literature, taken either in lower division or upper division. Credit in journalism and speech arts may not be used to fulfill the requirements for the English minor. Recommended: English 2D.

Teacbing Minor in Music. Candidates for the teaching minor in music are required to music activity ench tests at the time the minor is chosen and to enroll in at least one tion to the Music Department.

Applicants for music minors must maintain a grade average of $\sigma$ in all music courses. To Music L1A and L7A, required for the elementary credential, the following 12 for course sequences, 6 units may be. In the lower division, with the proper regard $1 \mathrm{D} ; \mathrm{I} 2 \mathrm{~A}$; I3A -4 A units may be chosen from the following courses: Music 1B-1Cupper division, not less ; L6A, 8A-8B; L16; L17; L18; Aesthetics 1A-1B. In the 102 B . $106 \mathrm{~A} ; 107 \mathrm{~A} ; \mathrm{L} 116$; L117; L118; 119A ; 120A ; 121A ; Aesthetics 102A-

Teaching Minor in Physical-Education. Candidates for a teaching minor in physical and 1 unit of whem for Physical Education L1A, L1B, L1C, 51, L53, L157B, L161, and 170 in thiver from Physical Education L157A, Can.

Physical $\begin{gathered}\text { for a teaching minor in physical education for men must show credit for }\end{gathered}$ 6 units elected upper division.

Major and Minor Credential Requirements

1. Kindergarten-Primary Credential: Two teaching minors are required.
2. The general elementary school credential: Two teaching minors are required.
3. The general junior high school credential: A teaching major and a teaching minor in subjects taught in a high school are required. The combination of a special secondary credential with the junior high school credential requires the completion of another teaching major than that required for a special secondary credential ; the units required for this additional major may be included in the 12 additional units required for the second credential.
4. A special secondary credential: The completion of the major in the special subject field (see detailed outlines of curricular patterns for credentials) and a teaching minor are required.
5. Credit limitations: A maximum of 40 units of credit in one subject matter field may be applied toward the requirements for the A.B. degree.

Preparation for Graduate Work. Students who take the A.B. degree with a special credential and who contemplate doing graduate work for a master's degree in an academic field at another institution of higher learning, will find it advantageous to use their electives to lay a foundation for that work. A student who plans to do graduate work in the field of his major is advised to so arrange his electives as to complete the equivalent of the liberal arts major to avoid the necessity of making up an undergraduate deficiency.
Political Science. The course in Political Science 101 or its equivalent is required of all graduates of the college or those securing a teaching eredential through the of all graduates of the college or those securing a towing courses are accepted as equivalents: Political Science 113 or $175 \mathrm{~A}-175 \mathrm{~B}$; History 171A-171B or 173A-173B.

Upper Division Course Requirement. At least 40 units in upper division courses must be completed, 30 of which must be earned after all lower division requirements have been satisfied.
Teacher Education Curricula and Teaching Credentials. The college offers curricula leading to the A.B. degree with authorization to recommend candidates for the following teaching credentials:

1. Kindergarten-Primary Credential authorizing the holder to teach in the kindergarten and in grades one, two and three of any elementary school in California.
2. General Elementary School Credential authorizing the holder to teach any or all subjects in all eight grades of any elementary school in California.
3. General Junior High School Credential authorizing the holder to teach any or all subjects in the seventh, eighth, and ninth grades of any elementary or secondary school in California. It will be advantageous to the student to secure this credential in combination with the elementary school credential, one of the special secondary credentials, or in combination with additional course requirements in the teaching major and in education as a preparation for graduate work for the general secondary credential. Candidates for the latter type of combination should consult the Dean of Education regarding requirements.
4. Special Secondary Credential in Art authorizing the holder to teach art subjects in any grade of the public schools of California.
5. Special Secondary Credential in Business Education authorizing the holder to teach commercial subjects in any grade of the public schools of California.
6. Special Secondary Credential in Music authorizing the holder to teach music in any grade of the public schools of California.
7. Special Secondary Credential in Physical Education authorizing the holder to teach physical education in any grade of the public schools of California.
8. Special Secondary Credential in Speech Arts. See page 35.
9. Administration and Supervision Credentials: Candidates desiring to qualify for administration and supervision credentials will meet the credential require ments as outlined in State Department of Education Bulletin, Volume XI, No. 2 June, 1942, Regulations Governing Granting of Credentials for Public Schoo Service in California. At least one-half of the work required for this credential
shall be done in San Diego State College if the college is to recommend the candidate for the credential. Further information will be furnished by the college upon date for the credential. F
request by the applicant.

Combination of Credentials. In the case of students seeking more than one teaching credential, the curriculum for each credential must be completed in full, with only such exceptions as are indicated in the requirements. For each credential in addition to one, at least 12 additional units of credit must be earned, this work to be in electives in nonprofessional fields only, after the basic curriculum requirements have been satisfied.
A combination of the elementary school credential with the junior high school credential may be secured by completing the requirements for the elementary school credential and the following additional requirements: (a) a teaching major; (b) Education 100B; (c) a minimum of 3 units of practice teaching in a junior high school or the equivalent; (d) a course in Education 115B, Secondary Education; (e) a total minimum of 132 units.
A candidate for either the general elementary credential or the kindergarten-primary credential may secure the other credential subsequently or concurrently by taking 12 at the new level, 4 in methese units shall be in directed teaching (Education 116) at the new level, 4 in methods at that level, and 4 as prescribed by the Dean of
Education.

Limited Electives. Credit for limited and vocational courses will be allowed in fulfillment of the requirements for the A.B. degree whenever they are required in any credential pattern completed by the student. A maximum of 6 units of credit in the following courses may be allowed to fulfill the requirements of any other credential pattern only after the student has received permission from the Dean of Education: Art L7, L14A ; Economics L10A, L10B, L15A, L15B, L16A, L16B, L65A, L65B, L129, L163; Engineering L22, L23; English L1A, L1AA, L8; Health Education L151; Journalism L53A, L53B, L153A, L153B ; Library Science L10; Mathematics LA, LB; Merchandising, all courses; Music L1A, L2A, L3A, L6A, L7A, L16A-B-C-D, L17A B-C-D, L18A-B-C-D, L28A-L28B, L116A-B-C-D, L117A-B-C-D, L118A-B-C-D; Physical Education, all activity courses beyond the requirements specified in curricular patterns ; Secretarial Training, all courses; and all courses numbered LA0 or LA5 if grade is below a $\mathbf{B}$.

## Curricula Leading to Teaching Credentials

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

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

$T$ wo teaching minors are required. See statement on page 22

First Semester-
freshman year

Art 6A, Structure 2
English L1A ${ }^{2}$, or L1AA ${ }^{2}$, or 1B ${ }^{2}$, Freshman English
Physical Education, Freshman Activities? 2
3

Elective to meet requirements in Nat. Sci., Soc. Sci., and minors ${ }^{3}, 4-\ldots 5$
Second Semester-

English 1B, or 23
3


Musical Education, Freshman Activities ? $5^{\frac{1}{2}}$
Elective to meet requirements in Nat. Sci., Soc. Sci., and minors ${ }^{3,4}$

First Semester-
SOPHOMORE YEAR

## Art 6B, Structure

| 2 |
| :--- |
| 3 |

Physical Education, Sophomore Activities?3
Geography 1, Elements (Natural Science) ..... $3^{\frac{1}{2}}$

## Second Semester-

Physical Education L53, Physical Education in the Elementary School_- 2 $\frac{1}{2}$ Geography 2, Regions (Social Science)

## Either Semester-

Art 61A, Elementary Crafts
Music L7A, Music Materials for the Elementary School
Psychology 1A, General
Social Science 1A.

Elective to meet requirements in Nat. Sci., Soc. Sci., and minors ${ }^{3}, 4,5$
${ }^{1}$ Possible substitutions for the requirement in Biology 10A-10B
a. B
substitutions for the requirement in Biology 10A-10B:
c.

Botany $2 \mathrm{~A}-2 \mathrm{~B}$ and Zoology $1 \mathrm{~A}-1 \mathrm{~B}-16$ units.
d. High school Zoology and Botany 2A-2B.
e. High school Botany and high school Zoology,
${ }^{2}$ Depending on result of Subject A test
${ }^{3}$ See Subject Matter Requirements in the Lower Division for total requirements in English; Natural Sciences, Social Sciences and Mathematics. See page 17 .
\& Use these electives to meet
requirements for minors if they are not English, General Science or Social Sclences.
5 If 6 units in minor taken in freshman year, none needed in sophomore year
${ }^{5}$ If 6 units in minor taken in freshman year, none needed in sophomore year.
${ }^{\circ}$ Candidates for an Elementary School Credential in combination with
other type of credential are required to do not less than 6 units of directed teaching in ${ }_{7}$ Folk Dancing and Rhythmic Skills are recommended for this credential.
${ }^{7}$ Folk Dancing and Rhythmic Skills are recommended for this credential.
${ }^{8}$ Plano may be taken at any time during the first three years. The requirement
First Semester-
JUNIOR YEAR
Education 102B, Child Growth and Developmen
Teaching of Art ..... 1
Elementary Music Education1
Elementary Music Education2
3

Elementary Education Methods| 3 |
| :--- |
| 2 |

Mental Hygiene| 1 |
| :--- |
| 2 |

Directed Teaching$\frac{2}{12}$
Second Semester-
Education L147A, Education Practicum-Kindergarten Level10Elementary Art Education$-10$Elementary Music EducationEnglish, Children's Literature_2

Kindergarten-Primary Education| 4 |
| :--- |
| 2 |

Educational Psychology$\overline{10}$
Education L116, Directed Teaching in Kindergarten (to be taken concurrently with Education L147A)

## SENIOB YEAB

Education 102A, Measurement in Education
$\qquad$
Education IT16, Directed Teaching in Primary Grades
Health Education 151
veacming in Primary Grades
Elective (including two minors and political science requirement)lective (including two minors and political science requirement)

## summary

Art 6A-B, 61A $\qquad$
Education 102A-B, 115A, L116, L147A-B
English and Speech Arts
$\qquad$
Health Education 1 or 2, and 1 .
Music L1A, L7A, L28A-B $\qquad$
( 1 A,
Physical Education L1A-B Biology 10A-B and Geography 1)
Physical Education L1A-B-C, L53
Political Science 101 or substitute
Political Science 101 or substitute, see page 20
Sochal Science
(including Geography 2)
Elective (including two teaching minors) $\qquad$
Total

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

## Twoo teaching minors are required, see page 29

freshman year
First Semester-
Art 6A, Structure ..... $\begin{array}{r}\text { U } \\ -\quad 2 \\ \hline\end{array}$
iolog 10A, Gereral Biology , ${ }^{2}$ Freshman English English L1A, ${ }^{2}$ or $11 A A^{2}$ or $1 \mathrm{~B},{ }^{2}$ Freshman English ..... 3
3
3
Geography 1, Elements (Natural Science) Physical Education, Freshman Activities ..... ${ }^{\frac{1}{2}}$
Health Education 1 or 2, Health and Social Adjustment$2_{2}^{\frac{1}{2}}$
Second Semester-
Second Sern
English 1B or 2D ..... 3
3
ral Biology
English 1B or 2D3
3
3
Geography 2, Regions (Social Science)-...- ..... 3
Physical Education, Freshman Activities
Electives ${ }^{3,4}$ ..... $2^{\frac{1}{2}}$

## SOPHOMORE YEAR

First Semester-
English (selected from $1 \mathrm{~B}, 2 \mathrm{D}$, unless taken in freshman year, or from $52 \mathrm{~A}, 52 \mathrm{~B}$
less taken in freshman year, or from $52 \mathrm{~A}, 52 \mathrm{~B}$3
$56 \mathrm{~A}, 56 \mathrm{~B}$ )
Physical Education, Sophomore Activities
Second Semester-
Physical Education L53-Physical Education in the Elementary School ..... $2 \frac{1}{2}$
Either Semester-
Art 61A, Elementary Crafts ..... 2
Art 61B, Elementary Crafts ..... 2
2
3

Psychology 1A, General ..... | 3 |
| :--- |
| 3 |

Social Science 1A, Pol. Soc. and Econ. Problems${ }^{3}$
Laboratory science unless Physics or Chemistry_3-4
Electives to meet requirements in Natural Sciences, Social Sciences, and
JUNIOR YEAR
First Semester-
Education 102A, Measurement in Education$\overline{30}$
Education L147B, Education Practicum-Lower Levels3
12
Second Semester-
Education 102B, Child Growth and Development_ ..... 3
Education L148, Education Practicum-Upper Levels. ..... $\frac{12}{30}$
SENIOR YEAR6Education L116, Directed Teaching ${ }^{6}$紋安
Either Semester-
Education 115A, History and Philosophy of Education3
Alectives including two minors and political science requir$\frac{21}{30}$
$1,2,3,4,5,6$ See foatnotes for Kindergarten-Primary Credentials, page 25.

A.B. Degree With General Junior High School Credential. (See statements on page 21 about teaching majors and minors.) Students who expect to secure the Master of Arts Degree, or the general secondary credential, should complete 24 upper division units in the departmental major instead of the 12 upper division units required for this credential. See statement on page 23 regarding combina-
tions of this with other credentials. tions of this with other credentials

## First Semester-

Biology 10A, ${ }^{1}$ General Biology $\qquad$
English L1A, ${ }^{2}$ or L1AA, ${ }^{2}$ or $1 B^{2}$ 3
Geography 1, Elements (Natural Science)
Physical Education, Freshman Activitie
Health Education 1 or 2, Health and Social Adjustment

## Second Semester-

Biology 10B, ${ }^{1}$ General Biology
English-1B or 2D $\qquad$
Geography 2, Regions (Social Science)

Physical Education, Freshman Activities | 3 |
| :--- |
| 3 |

Clectives, ${ }^{3}$ including major and

## SOPHOMORE YEAR

First Semester-
Physical Education, Sophomore Activities
Psychology 1A, General_-.-.
Second Semester-
Physical Education, Sophomore Activities

## Either Semester-

Social Science 1A, Pol., Soc. and Econ. Problems
Biology 10A-10B in Freshman year_mistry was taken in High School or
Elective, ${ }^{3}$ including major and minor ${ }^{5}$ (for the year)
${ }^{1}$ Possible substitutions for the requirement in Biology 10A-10B
a. High school Biology (year course with laboratory work).
b. High school Botany and Zoology 1 A
b. High school Botany and Zoology 1A-1B.
c. High School Zoology and Botany 2A-2B.
d. High School Botany and hith
e. High School Botany and high school Zoology.
e. Biology 1 and Physical Solience 1 A or 1 B . 6 its.
f. Botany $2 \mathrm{~A}-2 \mathrm{~B}$ and Zoology $1 \mathrm{~A}-1 \mathrm{~B}-16$ inits.
${ }^{2}$ Depending on result of Subject A test.
requirements in English, Natural Sciences, Social Lower Division, page 17, for total 4 Unless minor is English, General Science Sclences, and Mathematics,
${ }^{\circ}$ If 6 units in minor taken in freshman Science or Social Science.

First Semester

## JUNIOR YEAR

Education 102A, Measurement in Education
Political Science 101, American Institution (or substitute) _-............................... 2

## Second Semester-




Either Semester-

Electives, including major and minor (for the year) ............................................ 11
SENIOR YEAR $\overline{30}$

## First Semester-

ilosophy of Education
Education L116, Directed Teaching ..... 3
3
Second Semester-3
Either Semester-Electives, including major and minor ${ }^{7}$ (for the year)21
sUMMARY ..... 30
Education L100A ${ }^{6}$-L100B, 102A-102B, 115A-115B, L116 ..... 24

English ..... | 6 |
| :--- |
| 4 |

Natural Sciences (including Biology 10A-10B and Geog. 1) ..... 12
Physical Education$\begin{array}{r}2 \\ 2 \\ \hline\end{array}$
Psychology 1A3
Social Sciences (including Social Science 1A and Geography 2) ..... 12
Electives, including teaching major and minor_$\overline{120}$
A.B. Degree With Special Secondary Credential in Art. This course leads to the A.B. degree and to the Special Secondary Credential in Art which entitles the holder to teach art in senior high, junior high, and elementary schools.

## LOWER DIVISION

Units
Aesthetics 50, History and Appreciation of Art
Art A, Freehand Drawing and Perspective ${ }^{8}$ 3
Art 6A-6B, Struetur
Art 14 A , Lettering
Art 61A, 61B, Fine and Industrial Arts,
$\dagger$ English
Art 61A, 61B, Fine and Industrial Arts, Elementary Crafts
† English
Health Education 1 or 2, Health and Social Adjustment $\qquad$
$\qquad$
$\dagger$ Natural Sciences (including laboratory course unless taken in high school) _-_ 9-12 Physical Education, Freshman and Sophomore Activities_
sych $\qquad$ 2
3
*Social Sciences (including Social Science 1A) _-_-.......................................... 9-12
Electives, including additional art for major and courses for teaching minor ${ }^{9} \ldots \ldots-8-14$

© Not required if student is meeting requirements for elementary credential also.
${ }^{7}$ If 6 units in minor taken in junior year, none needed in senior year. ${ }^{8}$ Not required if student has had a year of Freehand Drawing in high school and can pass a proficiency examination.
$\dagger$ See Subject Matter Requirements in the Lower Division, page 17.
Art 6A, 6B, 61A, 61B $\begin{array}{r}8 \\ \hline\end{array}$
, $\begin{array}{r}89 \\ -6 \\ \hline\end{array}$
Health Education 1 or 2 6
2
Music L1A, L7A
Natural Sciences (incl, Biology 10A-10B and Geog. 1) ........................................... 12
Physical Education L1A-B-C, L53 .........................
Political Science 101 4
$-\quad 2$
-3
Psychology 1A
Social Sciences (including Social Science 1A and Geography 2)
Electives, including two teaching minors $\begin{array}{r}3 \\ 12 \\ \hline\end{array}$

$$
\overline{120}
$$

A.B. Degree With General Junior High School Credential. (See statements on page 21 about teaching majors and minors.) Students who expect to secure the Master of Arts Degree, or the general secondary credential, should complete 24 upper division units in the departmental major instead of the 12 upper division units required for this credential. See statement on page 23 regarding combina-
tions of this with other credentials.

## First Semester-

Biology 10A, ${ }^{1}$ General Biology
English L1A, ${ }^{2}$ or L1AA, ${ }^{2}$ or $1 B^{2}$
Geography 1, Elements (Natural Science)
Physical Education, Freshman Activities
Health Education 1 or 2, Health and S $2^{\frac{1}{2}}$
Electives, ${ }^{3}$ includes major and minor Social Adjustment

## Second Semester-

Biology 10B, ${ }^{1}$ General Biology
English-1B or 2D
Geography 2, Regions (Social Science)
Physical Education, Freshman Activities 3
Electives, ${ }^{3}$ including major and minor ${ }^{4}$ -

## SOPHOMORE YEAR

First Semester-
Physical Education, Sophomore Activities_
Psychology 1A, General
Second Semester-
Physical Education, Sophomore Activities $\qquad$

## Either Semester-

Social Science 1A, Pol., Soc. and Econ. Problems
Biology 10A-10B in Freshman year
Elective, ${ }^{8}$ including major and minor ${ }^{5}$ (for the year)
${ }^{1}$ Poss
Possible substitutions for the requirement in Biology 10A-10B
a. High school Biology (year course with laboratory work).
b. High school Botany and Zoology 1 A-1B c. High School Zoology and Bootany $1 \mathrm{~A}-1 \mathrm{~B}$.
d. High School Botany and high school 2 B ,
e. Biology 1 and Physical Solence school Zoology.
f. Botany $2 \mathrm{~A}-2 \mathrm{~B}$ and Zoology $1 \mathrm{~A}-6$ units.
${ }^{2}$ Depending on result of Subject A test.
requirements in English, Natural Sciences, Soclal Lower Division, page 17, for total Unless minor is English, General Solocial Sciences, and Mathematics.
${ }^{6}$ If 6 units in minor taken in freshman yeience or Social Science,

First Semester-

## JUNIOR YEAR

Education L100A, ${ }^{6}$ Methods and Materials of Instruction
Education 102A, Measurement in Education 3
Political Science 101, American Institution (or substitute)

## Second Semester-

Education L100B, Methods and Materials of Instruction_-_-............................. 3


Education L116, Directed Teaching| 3 |
| :--- |
| 3 |

## Either Semester-

Health Education 151, Health Education 2
Electives, including major and minor (for the year)
senior year $\overline{30}$

## First Semester-

sophy of Education 3


## Second Semester-

Education 115B, Secondary Education 3

## Either Semester-

Electives, including major and minor ${ }^{7}$ (for the year)21
sUmmary ..... 30

Education L100A ${ }^{6}$-L100B, 102A-102B, 115A-115B, L116__.............................. 24
English
24
6
Health Education 1 or $2 ; 151$
6
Natural Sciences (including Biology 10A-10B and Geog. 1 )
Physical Education
$\begin{array}{r}4 \\ 12 \\ \hline\end{array}$
Political Science 10
2
Psychology 1A
$\begin{array}{r}2 \\ 2 \\ \hline\end{array}$
Social Sciences ( Snelu-................................................................................... 3
Hectives, (meluding Social Science 1A and Geography 2) 12
mectives, including teaching major and minor_-..............................................................
A.B. Degree With Special Secondary Credential in Art. This course leads to the A.B. degree and to the Special Secondary Credential in Art which entitles the holder to teach art in senior high, junior high, and elementary schools.

> LOWER DIVISION Units

Art A, Freehand Drawing and Perspective ${ }^{5}$-_
Art 6A-6B, Structure
Art 14A, Lettering
Art 61A, 61B, Fine and Indus........................................................................
$\dagger$ English
Health Education 1 or 2 Health
Natural Sciences (including laboratory course unless taken in high school) 2
Physical Sducation (including laboratory course unless taken in high school)--- 9-12

sychology 1A, General
Social Sciences (including Social Science 1A) _.........................................-9-12
Electives, including additional art for major and courses for teaching minor ${ }^{\circ}$ __-.- 8-14
${ }^{6}$ Not required if student is meeting requirements for elementary credential also
${ }^{7}$ Not required if student is meeting requirements for elementary credential in minor taken in junior year, none needed in senior year.
${ }^{7}$ Not required if student has had a year of Freehand Drawing in high school and
can pass a proficiency examination.
† See Subject Matter Requirements in the Lower Division, page 17.

UPPER DIVISION


Art major
English

Natural Sciences 1 or 2
Physical Education
Political Education
Psychology 1A
Social Sciences (including Social Science 1 A )
Electives, including teaching minor

A.B. Degree With Special Secondary 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.

## Accounting and Secretarial Subfields

LOWER DIVISION
Economics 1A-1B, Principles
Economics 14A-14B, Accounting
English L8, English in Business
Geography 10A-10B, Economic Geography
Natural Sciences
Physical Education,
Health Education 1 Freshman and Sophomore Activities
Speech Arts 1A, Fundamentals and Social Adjustment.
Social Science 1A, Pol., Soc and of Public Speaking
Psychology 1A, General
Secretarial Training, LA, Business Mathematics
Secretarial Training L1A-L1B, Typewriting
Secretarial Training L5A-L5B, Spewriting

Not required if student is meeting reguirem
${ }_{3}$ Maximum credit allowable in art. up such deficiency in college. Seficient in high school natural science will have to make

## UPPER DIVISION

Seeretarial Training 3A, Office Methods and Appliances
Economics 18A-18B, Commercial Law
Economics 100 , or 102 or 111 or $123 \ldots$
Upper Division Accounting
Education L100A-L100B, Methods and Materials of Ed.
Education 102A, Measurements in Education
Education 102B, Child Growth and Development
Education 115 B , Secondary Education
Education L116, Directed Teaching
Special Methods Courses as prescribed by major department
Political Science 101, American Institutions (or substitute)
Minor
Minor
A.B. Degree With Special Secondary Credentials in Music. Students intending to become applicants for this credential must show evidence of musical ability, before entering the course. They must be able to play artistically upon the piano, music of the grade of the simpler Songs Without Words of Mendelssohn or else possess a corresponding degree or proficiency in voice or an Mosic I1A and Music I7A but if given to music majors for the basical musicianship, the student will be required to take deficiency exists in the courses without credit.

All music majors are required to enroll in two musical activities each semester In special cases this requirement may be waived by petition to the Music Department All students are required to pass examinations in applied music in order to receive credit. No credit is allowed to majors in voice or orchestral instruments for any work in piane which is below the level of artistic hymn playing.
Applicants for the Special Secondary Credential in Music must maintain a grade average of $\boldsymbol{O}$ 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, units a maximum of glee clubs and orchestra.

First Semester-
freshman year
English L1A, ${ }^{1}$ 1B, ${ }^{1}$
Health Education 1 or 2, Health and Social Adjustment
History 4A or 8A
Aesthetics 1A, Survey of Music
Music 1B, Music Reading and Ear Training
Music L18, Individual Study of Piano or Organ.................................................................
Physical Education
Second Semester-
2English
Geography 1, Elements (Natural Science)
Social Science 1A, Contemporary Pol, Soc. and Econ. Problems
testheties 1 Su ,
Music 1C Adyanced Music Reading and Ear Training
Music 10, Advanced Music Readent Class


Physical Education
1 Depending on result of Subject A test.
2 See Lower Division Requirements on page 18.
First Semester-
Music ID, Advanced Music Reading and Ear Training ..... UnitsSOPHOMORE YEAR
Music L2A, String Instrument Class1
Music 4A, Elementary Harmony
Music L18c, Individ ..... gan.-.3
1
*Natural Sciences
Geography 2, Region ns (Social Science) Geography 2, RegionElective${ }_{\frac{1}{2}}^{2}$$1^{2}$
Second Semester- ..... 142
Music 4B, Elementary Harmony3
1
Music L6A, Individual Study of an Orchestral Instrument
Music L17, Individual Study of VoiceMusic L18, Individual Study of Piano or Organ
Psychology 1A, General

    Natural SciencesNatural SciencesPhysical Education\begin{tabular}{l}
    1 <br>
3 <br>
6 <br>
\hline
\end{tabular}$\overline{15 \frac{1}{2}}$

First Semester-
JUNIOR YEAR

Music 105A, Advanced Harmony and Composition| 3 |
| :--- |
| 2 |
| 2 |

Dducation L117A, Music in Elementary School
Education L145, Organization and Administration of Music Education. ducation 102A, Measurement in EducationEducation L100A, Methods and Materials of InstructionUpper Division Minor$\begin{array}{r}2 \\ -\quad 3 \\ -3 \\ \hline\end{array}$
Second Semester- ..... 16
Political Science 101, American Institutions (or substitute)
Music 105B, Advanced Harmony ..... 2-3
Music 105B, Advanced Harmony and Composition_
Music L117A, Advanced Individual Study ..... 3
1
Education L100B, Methods and Materials of Instruc ..... ructionUpper Division Minorlrowth and Development

## SENior year

## First Semester-

Music 107A, Form and Analysis
Music Li17B, Advanced Individual S1
1
2
Aesthetics 102A, History of Music.

Education L116, Directed Teaching$\begin{array}{r}2 \\ 6 \\ 2 \\ \hline\end{array}$
**Music Activities$-\frac{2}{14}$

* See Subject Matter Requirement in the Lower Division on page 18.
tial in Music Aor maximum of activities carried on throughout the Special Secondary Credenactivities: band, choir, glee clubs, chorus and orchestra the four year course. These
work of the course and earch integral part of the work of the course and each music majus and orchestra are an integral part of the
these each semester unless excused by the Muspected to participate in at least two of

Second Semester-

Music L117C, Advanced Individual Study of Voice
Music 120 A , Vocal Conducting
Music 121A, Instrumentation
Aesthetics 102B, History of Music
Education 115B, Secondary Education
Education L116, Directed Teaching-
**Music Activities

SUMMARY
Health Education 1 or 2
Aesthetics 1A, 1B, 102A, 102B
Education L100A, L100B, 102A, 102B, 115B, L116, L117, L145 ...................... 28
English
Unglish Division Minor-
Natural Sciences (including Geography 1) - I17A-B-C-D, L18A-B-C-D, 105A 12
$105 \mathrm{~B}, 10,1 \mathrm{D}, \mathrm{L} 2 \mathrm{~A}, \mathrm{L3A}, 4 \mathrm{~A}, 4 \mathrm{~B}$,
cial Sciences (including Soc. Sci. 1A, Geog. 2, and Hist.)
Social Nciences (including Soc. Sci. 1A, Geog. 2, and Hist.) --............................. 12
Physical Educatio
Elective
A.B. Degree With Special Secondary Credential in Physical Education. This course leads to the A.B. degree and to the Special Secondary Credential in Physical Education which entitles the holder to teach physical education in senior high, junior ligh, and tlementary schools.

LOWER DIVISION
Units
Biology 10A-10B, General Biology (unless taken as a year course in high school with at least a grade of B)
or
Zoology 1A, General
†English ---....-
4-6
Health Education $-2$
$\dagger$ Natural Sciences
L1A-1B, L1C-1D

L53, Physical Education in the Elementary School

L62A, L62B, Gymnastic Activities
L72, Principles
Sports and Ath 4
2
2

Psychology 1A, General
Social Sciences, including Social Science 1A, Political, Social and Economic



** Norre.-A maximum of 3 units is credited toward the Special Secondary Creden-
tial in Music for music activities carried on throughout the four year course. These tial 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.
$\dagger$ See Subject Matter Requirements in the Lower Division, page 17.
least one sport and two additional activities requested to participate actively in at activity background for teaching.

## 3-31196

## UPPER DIVISION

Education L100A-L100B, Methods and Materials of Instruction 6
Education 102A, Measurement in Education--
Education 102B, Child Growth and Development
Education 115B, Secondary Education
Education L116, Directed Teaching
Health Education 151
Political Science 101, American Institutions (or substitute)
Zoology 114A, Genetics
Physical Education :
L154, Organ. and Admin. of Physical Education
$\qquad$
L155, Applied Anatomy
L156A-156B, Sports Methods
161, Folk Dancing
L169, Technique of Teaching Activities
170, Recreational Leadership
L190, Individual Program Adaptation.
Sports and athletics ${ }^{1}$
Sports and athleties ${ }^{1}$
Electives

## SUMMARY

ducation L100A-L100B, 102A-102B, 115B, T11
English 21
Health Education 1, 151
Speech Arts 1A
-
Physical Edaceation teaching major-_A-10B or substitute and Zoology 8)
Psychology 1A
Social Sciences (including Social Science 1A)
Zoology 114A
Electives, including minor
$\qquad$
$\qquad$ 3
12
2

## (A.B. Degree with Special Secondary Credential in P.E.) <br> WOMEN

LOWER DIVISION
Music 1A, Musicianship-Fundamentals of Music
${ }^{*}$ English
Health Education 2, Health and Social Adjustment
Physical Education:
L1A, Fundamental Skills
L1B, Folk Dancing $\qquad$
L1C, Rhythmic Skill
L5B, Archery
L6A, Badminton
L7A or 7B, Gol
L11B, Tennis


Health Education 51, First Aid and Safety Education
Psychology 1A, General
Psychology 1A, General
Speech Arts
Zoology 8, Human Anatomy
Electives, including minory ${ }^{1}$
$\qquad$

- See Subject Matter Requirements in the Lower Division, page 17
least one sport and two additional Education are requested to participate actively in a background for teaching.
UPPER DIVISION
Education L100A-L100B, Methods and Materials of Instruction6
Education 102A, Measurements in Education3
3
3
ducation 102B, Ghild Growth and Development
Education 115B, Secondary Education.
Education L116, Directed Teaching
Health Education 151, Health Education
Political Science 101, American Institutions (or substitute)2L153, Principles and Administration of Secondary Physical EducationL155, Applied Anatomy
L157A-L157B, Sports Methods
L160, Principles of Teaching Gymnastic
L161, Folk Dancing
L164A-L164B, Methods in Modern Dance
L169, Technique of Teaching Activities
170, Recreational Leadership
L177, Individual Program Adaptations
L185, Techniques of Individual Sports
Electives, including minor-


## summary

Music 1A -
Education L100A-L100B, 102A-102B, 115B, L116
English -------------10-1
Natural Sciences (including Biology 10A-10B, and Zoology 8) 12

hysical Education tea
Psychology 1A

Social sciences (including social science 1A)
Electives, including a minor $\qquad$
A.B. Degree With a Major in Speech Arts. The college is authorized to grant an A.B. degree with a major in Speech Arts. Upon the satisfactory completion of the following curriculum the college will recommen that the Division of Credentials of . Depar 1 . dential in Speech Arts A schor Arts courses

LOWER DIVISION
Units
Speech Arts 1A-1B or 1C-1D or 60
Speech Arts $55 \mathrm{~A}-55 \mathrm{~B}$ or $55 \mathrm{C}-55 \mathrm{D}$ 1
Speech Arts 63A-63B, Verse Choir
${ }^{2}$ Natural Sciences
${ }^{1}$ Social Sciences (including Social Science 1A)
Electives and Minor
Psychology 1A, General
Psychology 1A, General
Health Education 1 or 2, Health and Social Adjustment
English L1A, 1B, or 1 C and 3 units from 30A-30B, $52 \mathrm{~A}-52 \mathrm{~B}, 56 \mathrm{~A}-56 \mathrm{~B}$
Physical Education L1A, L1B, L1C and L3A or L11A
Aesthetics 1A or 5
${ }^{1}$ See lower division requirements, page 18.

Health Education 151, Health Education
ducation L100A-L100B, Methods and Materials of Instruction
ducation 102A, Measurement in Education
Education 102B, Child Growth and Development
Education 115B, Secondary Education
Education L116, Directed Teaching
Political Science 101, American Institutions
Minor
Speech Arts $155 \mathrm{~A}-155 \mathrm{~B}$ or $156 \mathrm{~A}-156 \mathrm{~B}$
Speech Arts 163
Speech Arts 150, Phonetics
Speech Arts Electives
Electives to include 6 units from P. E. L164A or L12A; English 152A-152B;
Eng. 110, 116B, 117A-B ; or upper division courses offered in both English
and Speech Arts
summary
Aesthetics 1A or 5
115B, L11621

English $\mathrm{L} 100 \mathrm{~A}-\mathrm{L} 100 \mathrm{~B}, 102 \mathrm{~A}-102 \mathrm{~B}, 115 \mathrm{~B}, \mathrm{~L} 116$ 6
4
Health Education $\begin{array}{r}4 \\ 12 \\ \hline\end{array}$
${ }^{1}$ Natural Sciences 12
2

Physical Education | 2 |
| :--- |
| 3 |

Psychology 1A 3
12
${ }^{1}$ Social Sciences (including Social Science 1A)
Speech Arts
Speech Arts
Political Science 101, American Institutions (or substitute)
Electives, including teaching minor $\begin{array}{r}30 \\ -23 \\ \hline\end{array}$

Special Credential in Correction of Speech Defects. The credential is available to graduate students who have successfully completed two years of teaching in any field experience in the treatment of articulatory antion plus a total of 100 hours of clinical

[^2]
## PROFESSIONAL AND PREPROFESSIONAL CURRICULA

Professional and preprofessional courses, ranging in length from two years to three and four years of collegiate work, are offered. The following curricular outlines meet and four years of collegiate wirements for admission to professional schools of law, medicine, dentistry, nursing, pharmacy, optometry, social service, public service, journalism, agriculture, and engineering. The student should modify these suggested outlines of study whenever the peculiar requirements of the professional school of his choice makes it seem advisable for him to do so.
The degree curricula in liberal arts may be modified to include the course outlines which follow. For a complete statement of the requirements for the junior certificate and the degree see page 17 and following pages.

## Prelegal Curriculum

The entrance requirements of law colleges range from two years to three and four years of prelegal work. The lower division requirements of the liberal arts curricula should be met in full whether the curriculum extends over a period of two, three, or four years.
The following curriculum meets the recommendations of standard American law col leges 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 involved in human affairs and those which have cultural and disciplinary values. For as provided for in the following curriculum, furnishes the most effective preparation as provided for in the following curriculum, furnishes the most effective preparation However, for some students a major, or at least strong minors, in English, history, or political science, may provide a suitable preparation.
The high school program should include the following subjects: elementary algebra, 1 unit ( 2 semester credits) ; plane geometry, 1 unit; intermediate algebra, 1 unit; foreign language, 3 units in one language or 2 units in each of two languages.
Following is a recommended arrangement of courses:
freshman year Units



*Natural Science
Economics 14A-14B


Elective ${ }^{1}$
$0-\overline{4}$
SOPHOMORE YEAR

*Additional Natural Science (if needed to meet requirement)
Economics $1 \mathrm{~A}-1 \mathrm{~B}$
Philosophy $3 \mathrm{~A}-3 \mathrm{~B}, 5 \mathrm{~A}-5 \mathrm{~B}$, or Mathematics $3 \mathrm{~A}-3 \mathrm{~B}$ -
Political Science $1 \mathrm{~A}-1 \mathrm{~B}$ or $71 \mathrm{~A}-71 \mathrm{~B}$
Elective ${ }^{1}$ $\begin{array}{r}-3 \\ -\quad 3 \\ \hline\end{array}$

| 3 |
| :--- |
| 3 |

$\overline{15 \frac{1}{2}} \quad 15^{\frac{1}{2}}$

* See lower division requirements, page 17.
i Recommended elective: History, 6 units, taken in the freshman or sophomore year.


The high school program should include the following subjects : elementary agebra (year) unit; plane geometry, 1 unit; algebraic theory, 1 unit ; trigonometry, $\frac{1}{2}$-unit physics, 1 unit; chemistry, 1 unit; foreign language, 3 units
The following curriculum prepares for junior standing in university schools of
optometry:


## ulum

The entrance requirements of medical colleges ordinarily range from three to four years of premedical work. The lower division requirements of the Liberal Arts cur
ricula include the therefore be met in full whether thements of standard medical colleges and should years. However, a student wher the curriculum extends over a period of three or of four a degree in San Diego State College definitely decided not to become a candidate for a dhe institution to which he eollege may substitute the lower divisision a requirements of marked with an asterisk. All expects to transfer in place of the following courses ment of courses to meet the plans for premedical work should include an arrange expects to enter. A student wis
A student who is pursuing a four-year premedical curriculum should major in chemistry
or zoology in his junior and senio ments for the A Bunior and senior years, and must meet all uld major in chemistry ${ }^{1}$ If not aval degree in the Liberal Arts curricula.

[^3]The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; French or German, 3 units. Two units of Latin are recommended.
Following is a recommended arrangement of courses .


## Prenursing Curriculum

A student who plans to complete a curriculum in nursing leading to a degree and a certificate in nursing in another collegiate institution should ascertain the lower division (junior certificate) requirements of that institution. The lower division requirements of the institution to which the student will transfer may be substituted for the following courses marked with an asterisk wherever the requirements differ.
The high school program should include the following subjects: elementary algebra, 1 (year unit) ; plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; French or 1 (year unit) ; plane geometry, 1 unce (foods), 1 unit; 2 units of Latin are recommended. The following is a recommended arrangement of courses :

| freshman year | its | SOPHOMORE YEAR | Units |
| :---: | :---: | :---: | :---: |
| Physical Education .-...---- $\frac{1}{2}$ | $\frac{1}{2}$ | Physical Education | $3^{\frac{1}{2}} \quad \frac{1}{2}$ |
| Health Education | 2 | Psychology 1B | 3 |
| Chemistry 2A-2B _--.----- 3 | 3 | Economics 1A-1B | 33 |
| Psychology 1A _----------- 3 |  | Bacteriology 1 | 4 |
| *English Composition _----- 3 | 3 | **Additional Year Course | 33 |
| **French or German (if |  | Physiology 1A, 1C | 5 |
| needed to complete require- |  | Zoology 8 | $3 \quad-$ |
|  | 0-5 | Elective | 4 |
| Social Science 1A | 0-5 |  |  |
|  | 0-5 |  | $16 \frac{1}{2} \quad 15 \frac{1}{2}$ |
| 151 $\frac{1}{2}$ | 163 |  |  |

${ }^{1}$ If not available, Zoology 20 may be substituted.
${ }^{2}$ German if the major is Chemistry.
${ }^{3}$ Mathematics $3 \mathrm{~A}-3 \mathrm{~B}$ or satisfactory substitute 2 E , Ch .

* Chosen from English 1 B and $2 \mathrm{~A}, 2 \mathrm{~B}, 2 \mathrm{C}, 2 \mathrm{D}, 2 \mathrm{E}, 2 \mathrm{~F}$.
${ }^{*}$ See lower division requirements, page 17 .


## Predental Curriculum

Candidates for a degree in dentistry should ascertain the entrance requirements of the dental college to which they expect to transfer and should make whatever changes in the following typical requirements that may seem desirable in satisfying the requirements of the dental college.
The high school program should include the following subjects : elementary algebra, 1 (year) unit; plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; foreign language, 3 units in one language.
The following arrangement of courses is recommended:

| Freshman year | Units | SOPHOMORE YEAR |  | Units |
| :---: | :---: | :---: | :---: | :---: |
| Physical Education _------ $\frac{1}{2}$ | - $\frac{1}{2}$ | Physical Education |  |  |
| Health Education | 2 | Chemistry 7-8 _... |  | 3 |
| Chemistry 1A-1B .......-. 5 | 5 | Physics 2A-2B or Zoology |  |  |
| *English ------------------ 3 | 3 | 1A-1B | 3-4 | 3-4 |
| Psychology 1A .-........-.- 3 | -- | **Social Science Year Course | 3 | , |
| **Foreign language (if |  | **Social Science 1A | 3 |  |
| needed to complete require- |  | **Additional Year Course | 3 | 3 |
|  | 0-5 | Elective |  | 3 |
|  | 0-5 |  |  |  |
| $16 \frac{1}{2}$ | 151 |  |  |  |

## Preagricultural Curricula

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

Students should ascertain the lower division requirements of the agricultural college they expect to enter.
The following arrangement of courses is recommended:


[^4]$* *$ See lower division requirements for junior standing (junior certificate) page 17


## Preengineering Curriculum

This curriculum is intended for students planning an intensive specialization in particular branches of engineering.
The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, 1 unit; solid geometry, $\frac{1}{1}$ unit; trigonometry, $\frac{1}{2}$ unit; chemistry, 1 unit; physies, 1 unit; mechanical drawing, 1 unit.
Students should ascertain the requirements of the engineering college they expect to enter.

[^5]Mechanical, Electrical, Civil and Mining Engineering

| Physical Education | Units |  |
| :---: | :---: | :---: |
|  | $\frac{1}{2}$ | $\frac{1}{2}$ |
| Health Education 1 |  | 2 |
| Mathematics 3A-3B | 3 | 3 |
| Chemistry 1A-1B | 5 | 5 |
| Physics 1A-1B | 3 | 3 |
| $\dagger$ Geology 1A or elective | 4 |  |
| Elective --.-.-........ |  | 3 |
| Mechanical and Electrical | 151 $\frac{1}{2}$ | $16 \frac{1}{1}$ |

Mechanical and Electrical Engineering


## Curriculum in General Engineering

A four-year curriculum is available at San Diego State College leading to the A.B. degree in General Engineering. The curriculum is designed to provide the student
with the fundamentals with the fundamentals of an engineering and technical education without intensive specialization. It is planned to provide considerable elective opportunities, which on one branch of engineering the program to his particular needs, with emphasis on one branch of engineering training, science, or business.
All students with aptitude for professional engineering and the financial means ar urged to complete the requirements for the degree in mechanical thancial means are engineering school. fields of engineering, engineering science, or increasing need for college graduates in specialized training is not neering science, or business engineering, where an intensive curriculum may easily necessary. Students with training in a general engineering various engineering fields, as the their programs to provide preparation for work in phone, and aerong fields, as the electrical, heating and ventilation, public ptility, telefor work in chemical endustries among many others. Preparation is also available Students may also use this curring, engineering physics, and engineering economics. work in certain graduate curriculum as an undergraduate preparation for additional teaching of engineering ate engineering colleges. Students who desire to prepare for * Cortain
erly qualified students. $\dagger$ Geology 1 A is required in the civil engineering curriculum.
leges may use this curriculum, along with certain courses in education, to satisfy the undergraduate requirements for the general secondary credential.
The curriculum is not a specialized sequence of course work in specific engineering fields. If such specialized training is desired in the engineering fields, transfer to various colleges offering such work is recommended after completion of the lower division.
The high school program should include the following subjects : elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, 1 unit; solid geometry, $\frac{1}{\frac{1}{2}}$ unit; trigonometry, $\frac{1}{2}$ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, $\frac{1}{2}$ unit;
1 unit.

> LOWER DIVISION

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


## UPPER DIVISION

During the first semester of his junior year the student must prepare and submit for approval of his advisors a tentative program for the remainder of his undergraduate work.
Complete lower division requirements. (See page 17.)
Political Science 101.
Complete the following major in General Engineering : a total of 36 upper division coordinated units in three departments chosen from the following list (not more than 15 units may be chosen from one department).
The organization of the program of each major student must follow a definite plan approved by the proper advisors. Additional courses will be added from time to time. Required of all students ( 20 units):

Engineering 100A-100B, Electrical Engineering 6
Engineering 100A-100B, Electrical Engineering

Engineering 128 Heat Power Engineering
Physics $105 \mathrm{~A}-105 \mathrm{~B}$, Analytical Mechanics
Electives: 16 units, of which at least 6 units must be chosen from one of the following departments : chemistry, geology, astronomy, mathematics, or economics.
Chemistry 110A-110B, Physical $\qquad$ 6
Chemistry 105A, Quantitative Analysis_
Chemistry 112A-112B, Industrial Chemistry
Chemistry 144, Industrial Analysis_
Physics 110A, Adv. Electricity
Physies 110B, Electromagnetism-electronies
Physics $107 \mathrm{~A}-107 \mathrm{~B}$, Electrical Measurements
Physics 108, Modern Physics_

* Recommended Economics 1A-1B.
** See lower division requirements, page 17.

Physics 112, Advanced Heat-Thermodynamics_
Physics 112L, Heat-Pyrometry Lab.
Physics 114, Acoustics
Geology 100, Structural Geology
Geology 101, Problems in Geology
Astronomy 100, Navigation-Astronomy
Astronomy 107, Least Squares
Mathematics 118, Advanced Calculus
Mathematics 119, Differential Equations
Mathematics 124, Vector Analysis
Mathematics 140, Probability-Statistics
Economics 107, Credit and Credit Institutions
Economics 121, Business Administration
Economics 123, Principles of Marketing
Economics 131, Public Finance and Taxation
Economics 133, Corporation Finance
Economics 135, Money and Banking
Economics 140, Statistical Methods
Economics 150, Labor Problems and Industrial Relations
Economics 171, Transportation
Industrial Economics
recommended)
A student who desires to satisfy the undergraduate requirements for the general secondary teaching credential should include in his upper division work, in addition to the engineering major, certain courses in education whieh will partially satisfy the this work should be chosen fromer to conform to the usual university requirements Consultation with the Dean of Education 102A-102B and Education 115A-115B mended.

## Public Service Curricula-Public Administration

As the vocational demand for students of public administration is comparatively a related field of work for which theration will do well to prepare himself also for demand. The candidate for a publice is not only a cultural but also a vocational career in a professional, scientific or technical fialdive position who is equipped for private enterprise has a distinct advantage. Tield that is common to both public and tration listed in the following curriculum are special courses in public adminis exploration and orientation. The curriculum supplementary courses designed for conomics, outlines a general preparation for the a whole provides for a major and furnishes a basis for more highly specialize pabic service in social science flell administration.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit the following subjects: elementary algebra, guage, 3 units in one language.
The following arrangement of courses is recommended :

| freshman year Units | SOPHOMORE YEAR | Units |
| :---: | :---: | :---: |
| Health Education 1 or 2 | *English |  |
| *English | Physical Education |  |
| *Foreign Language (if needed to complete requirements | *Additional Natural Science (if needed to meet require- |  |
| Psychology 1A |  | 3 |
| *Natural Science | * Additional year | 3 |
| Economics 14A-14 | Economics 1A-1B | 3 |
| Elective | Political Science 1A-1B or 71A71B | $3 \quad 3$ |
| $16 \frac{1}{2} 15 \frac{1}{2}$ | Elective | 4-3 |

[^6]| JUNIOR YEAR | Un |  | SENIOR YEAR | Units |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Economies 100A | 3 | -- | Economics 150 |  | 3 |
| Economics 140 | 3 | -- | Economics 107, 133, 135, 171. | 3 |  |
| Economics 100B | - | 3 | Economics electives | 3 | 3 |
| Economics 131 |  | 3 | Political Science 143A-143B-- | 3 | 3 |
| Political Science 175A-175B_- | 3 | 3 | Elective 1 | 6 | 6 |
| Elective 1 | 6 | 6 |  | 5 | 15 |
|  | 15 | 15 |  |  |  |

## Public Service Curricula-Clerical and Fiscal Service

The curriculum in Clerical and Fiscal Service leads to the A.B. degree with a major in commerce. It outlines a course of training for clerical and clerical-executive service in accounting and auditing, budgeting, statistical work and miscellaneous financial and fiscal work.
The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; intermediate algebra, 1 unit; foreign language, 3 units in one language.

| freshman year | Units | SOPHOMORE YEAR | Units |
| :---: | :---: | :---: | :---: |
| Physical Education | $\frac{1}{2} \quad \frac{1}{2}$ | *English Composition | 3 -- |
| Health Education 1 or 2 | $2-$ | Physical Education ----- | ${ }^{\frac{1}{2}} \quad \frac{1}{2}$ |
| *English Composition | 3 | *Additional Natural Science |  |
| *Foreign Language (if needed to complete requirement of 10 |  | (if needed to meet requirements) $\qquad$ | 3 |
|  | $0-5 \quad 0-5$ | Economics 1A-1B | 3 |
| *Natural Science | 3-5 3-5 | Economics 14A-14B | 3 |
| Mathematics C and Economies 2 $\qquad$ | $3 \quad 3$ | Political Science 1A-1B or 71A- $71 \mathrm{~B}$ | 3 |
| Psychology 1A |  | Elective ${ }^{2}$ | 43 |
| Elective | $50-6$ |  | $16 \frac{1}{2} 15 \frac{1}{2}$ |
|  | $16 \frac{1}{2} 15 \frac{1}{2}$ |  |  |
| JUNIOR YEAR | Units | Senior year | Units |
| Economics 121 | 3 | Eeonomies 161 | $3-$ |
| Economics 131 | 3 | Economics 167 | -- 3 |
| Economics 140 |  | Economics Elective | - 3 |
| Economics 160A-160B | $3 \quad 3$ | Political Science 143A-143B_- | 3 |
| Political Science 101 | 2 | Elective ${ }^{3}$ | 9 |
| Elective ${ }^{3}$ | 4 |  | $15 \quad 15$ |
|  | $15 \quad 15$ |  |  |

## Public Service Curricula-Social Work

The professional curriculum in social service prepares for admission to graduate work in recognized American schools of social work. This curriculum should be pursued by those who plan careers in Federal, State and local welfare work; social work in public schools including preparation for a teaching credential; family and children's private case work agencies; social settlement work; county probation work; child welfare agencies; statistical and investigational work in private and 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

* See lower division requirements, page 17.
te major in political science should elect Political who desire to prepare for a gradu ate major in political science should elect Political Science 111 and 113 and may satisfy
requirements for a major in economics by substituting Political Science 143A-143B for elective courses in economics.
${ }_{3}$ 2 Recommended electives: Economics 18A-18B and Secretarial Training 3A.
${ }^{3}$ See minor requirements, page 20.
ordinarily be met in full. However, a student who has definitely decided not to become a candidate for a degree in San Diego State College may substitute the lower division requirements of the institution to which he expects to transfer wherever the requirements differ.
A student who pursues a four-year curriculum in San Diego State College should major in Social Science and minor in Psychology.
The following subjects should be completed in high school : elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, 1 unit; foreign language, 3 units in one language.

Following is a recommended arrangement of courses :

| freshman year |  | Units | SOPhomore year | Units |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Physical Education --..- |  |  | Physical Education |  |  |
| Health Education 1 or 2.--- |  |  | Economics 14-1B |  |  |
| Biology 10A-10B | 3 |  | Political Science 1A-1B or |  |  |
| *Foreign Language (if needed to complete requirement) $\qquad$ |  |  | $71 \mathrm{~A}-71 \mathrm{~B}$ <br> * Additional Year Course- | 3 | 3 3 |
| Psychology 1A |  | 0 | *Additional Natural Science |  |  |
| *Speech Arts $1 \mathrm{~A}-1 \mathrm{~B}$ or <br> *English elective |  |  | (if needed to meet requir |  |  |
|  |  | 3 | ment) Sociology 50A | 3 |  |
|  |  | 2-7 | Sociology 50B |  |  |
|  |  | $15 \frac{1}{2}$ | lective 1 |  |  |
|  |  |  |  | $15 \frac{1}{1}$ |  |
| JUNIOR YEAR <br> Economics 100B or 131 or 150 $\qquad$ |  |  |  |  |  |
|  |  | Units | senior year |  |  |
|  |  |  | Economics 140 | 3 |  |
| Sociology 105 ----------------- ${ }^{\text {Sociology }} 109$ | 3 | 3 | Sociology 197 | 3 |  |
|  |  | 3 | Sociology Elective | 3 |  |
| Psychology 150 | 3 |  |  | 3 |  |
| Psychology 151 |  | 3 | or restricted elective | 3 |  |
| Zoology 114A |  | -- | Elective ${ }^{3}$.- | 3 | 9 |
| ${ }_{\text {Political }}$ Elective ${ }^{2}$ Science 101.....--- | 5 | 6 |  | 15 | 15 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

## Public Service Curricula-Inter-American Relations

The purpose of this curriculum is (1) to furnish a basis for a more intelligent and effective understanding of the opportunities and problems of international relations in the western hemisphere ; (2) to provide facilities for a basic education and training
for a business or professe and
who plans a career in this field should therefore orenal affairs is severe. The student a concentration in some area of work in which organize his electives to provide for nities. Preparation for employment as a foreign are greater vocational opportubusiness organization implies concentration a foreign representative of an American this curriculum as a guide for training for the foreign service. The student who pursues secretarial, and other public offices should include additional consular, vice consular, guage, history, political science, geography, and economies to courses in foreign lanpreparation for the comprehensive competitive examininations to furnish more effective ment to the Service and for entrance to the Exeign Oftions required for appointWashington, D. C.

* See lower division requirements, page 17.
i Recommended electives:

2 Recommended electives: Economics $14 \mathrm{~A}-14 \mathrm{~B}, 6$ units : Psychology $4 \mathrm{~A}, 3$ units.
and ; History $171 \mathrm{~A}-171 \mathrm{~B}, 6$ units, Sociology 106,308 units; Economics 1
See minor requirements and U. S. Constitution res, 3 units each.

The proper faculty adviser should be consulted for revisions and additions to this curriculum to meet individual needs and objectives.
The high school program should include the following subjects: algebra, 1 (year) unit; plane geometry, 1 unit; intermediate algebra, 1 unit; foreign language, 3 units in one language.
The following arrangement of courses is recommended:

| freshman year |  | its | SOPHOMORE | Units |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Physical Education | $\frac{1}{2}$ | $\frac{1}{2}$ | Physical Education --.-.-- | $\frac{1}{2}$ | $\frac{1}{2}$ |
| Health Education 1 |  |  | *Additional Natural Science |  |  |
| *English --- | 3 | 3 | (if needed to meet require- |  |  |
| *Spanish | -0-5 | 0-5 | ments) ---------------- |  |  |
| *Natural Science | 3-5 | 3-5 | *Additional year course (for- |  |  |
| History 8A-8B | 3 | 3 | eign language) -------- |  | 3 |
| Psychology 1A | 3 |  | Economies 1A-1B .-....-. | 3 | 3 |
| Elective | 1-5 | 0-6 | Political Science 1A-1B or 71A-71B |  | 3 |
|  | $15 \frac{1}{2}$ | $15 \frac{1}{2}$ | Geography 1 (Elements) |  |  |
|  |  |  | Elective |  | 6 |
|  |  |  |  | $15 \frac{1}{2}$ | 151 ${ }^{\frac{1}{2}}$ |
| Junior year | Units |  | SEnior year |  | Units |
| Political Science 141 | 3 | - | Economics 195 | 3 | -- |
| Political Science 142 |  | 3 | Economics 198 (Special |  |  |
| History 173A-173B | 3 | 3 | Study-Western Hemi- |  |  |
| Spanish 104A-104B | 3 | 3 | sphere) |  | 3 |
| Elective ${ }^{1}$ | 6 | 6 | History 161 | 3 | 3 |
|  | 15 | 15 | Geography 116 |  | 3 |
|  |  |  | Geography 121 | 3 |  |
|  |  |  | Elective ${ }^{1}$ | 6 | 6 |

## Public Service Curricula-Foreign Service

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

## Curriculum in Journalism

(Courses in journalism have been discontinued until further notice.)
A broad, cultural education, and specific information and understanding in fields with which the journalist is largely concerned, are essential to an effective training for journalism. Introductory training in the principles and practices of journalistic writing is offered only after a good foundation in correct speaking and writing of English has been laid.
Practical training in news reporting and editing for student publications and for the daily and weekly press is emphasized.

* See lower division requirements, page 17,
(a) Restrieted electives: The social science major or the general major recommended. The social science major requires 24 units of upper division work, including a concedration of 12 units in one social science and 6 units in each of two others. See
also minors requirement, page 20 . The general major requires 36 units of upper divialso minors requirement, page 20. The general major requires 36 units o thaper divi-
sion work in any three fields, subject to departmental approval. Not more than 15 units in any field will be counted as part of the major. Minors requirement may be included in the general major
Art), Anthropology 151B (Middle American Indian), English 104 (Survey of LatinAmerican Literature).

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

** See lower division requirements for junior standing, page 17.
may be substituted for Social Science 1 A . 6 units of Political Science $1 \mathrm{~A}-1 \mathrm{~B}$ or $71 \mathrm{~A}-71 \mathrm{~B}$
 ${ }^{2}$ Recommen equivalent ; Speech Arts 1ts ; Sociology $50 \mathrm{~A}-50 \mathrm{~B}, 6$ units ; Secretarial ${ }_{3}$ The social science elives: Journalism $153 \mathrm{~A}-153 \mathrm{~B}$,
major requires 24 units of major or the general major recommend units, major requires 24 units of upper division work, including a concentration social science tin pacial science and 6 units in each of two others. See also minors requirement, Bullefields, subject to departmental approval. Not more ther division work in any three be counted as part of the major. Minors requirement may be included in the general the curriculum in Journalism. Counted tow more than 6 units counted toward the A.B. degree and not more than 4 units of Journalism 153C-153D
may be counted.

## TWO-YEAR COMPLETION CURRICULA

These curricula are organized for students who have not yet qualified for enrollment in a four-year curriculum leading to the Bachelor of Arts degree. Regularly qualified students who prefer a shorter completion course will take only such two-year courses as may be required in the specialized curricula they are following. Upon satisfactory completion of the requirments
 the opporhnily in a thoo-vear curriculum. Upon transfer the credits earned in most courses in the two-year program in which grades of $A$ and $B$ have been received are allowed to count toward the Bachelor of Arts.degree.

Courses numbered L40 and L45 are not open for credit to students in a four-year currioulum.
The following special courses are designed for students enrolled in a two-year completion curriculum: Astronomy L40; Biology L40; Economics L45A-L45B; English L40A, L40B, L45, L46;-Geography L40A, L40B; Geology L40; Health Education L40; Mathematics L40A, L40B; Physical Science L40; Psychology L45; Social Science L40, L45; Sociology L40; Speech Arts L40.
Any other course designated by the prefix "L" (e.g. Art L") is regularly open to students enrolled in a two-year completion ourriculum. See Limited Electives, page 19. The following courses are also regularly open to two-year students: Aesthetics 1A,
$1 B, 2 ;$ Art $6 A, 6 B, 8 A, 8 B, 11 A, 11 B, L 14 A, 14 B, 52 A, 61 B, 94 A, B ;$ Economics $15 A-$ $1 B, 2 ; A r t ~ 6 A, 6 B, 8 A, 8 B, 11 A, 11 B, L 14 A, 14 B, 52 A, 61 B, 94 A, B ; E c o n o m i c s ~ 15 A-~$
$15 B, 16 A-16 B, 65 A-65 B$; Health Education 1,$2 ; M a t h e m a t i c s ~ C, D, E, S ; M e r c h a n-~$ dising (all courses); Music 1B, 11A, 11B, 11C, 11D, 12A, 12B, 12C, 12D, 13A, 13B, $13 C, 13 D, 15 A, 15 B, 15 C, 15 D, 20 A, 20 B, 20 C, 20 D, 26 A, 26 B, 26 C, 26 D, 27 A, 27 B$; Seoretarial Training (all courses).

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

## Two-year Curriculum in Liberal Arts

| FIRST YEAR | Units <br> Sem. I | Units <br> Sem. II | SECOND YEAR | Units <br> Sem. I | Units <br> Sem. II |
| :---: | :---: | :---: | :---: | :---: | :---: |
| English LA0A or L40B or L40C $\qquad$ | 3 | 3 | Speech Arts L40 or English L45. | 3 |  |
| **Physical Science LA0 or equivalent $\qquad$ |  | 3 | Social Science (Economics L45A, Geography |  |  |
| Biology L40 or equivalent $\qquad$ | 3 |  | L40B, Merchandising L20, or Social Science |  |  |
| Social Science L40 | 3 |  | Elective*) --- | 3 |  |
| Sociology LA0 |  | 3 | Social Science LA5 |  | 12 |
| Health Education 1 or 2 |  | 2 | *Elective ---.---- | 9 | 12 |
| Physical Education_--- |  | $\frac{1}{2}$ | Physical Education. | - $\frac{1}{2}$ | $\frac{1}{2}$ |
| Psychology L40_.-...--- |  |  |  |  |  |
| * Elective --- | 3 | 4 |  |  |  |
|  | $15 \frac{1}{2}$ | $15 \frac{1}{2}$ |  | $15 \frac{1}{2}$ | $15 \frac{1}{2}$ |

* See foregoing list in italics.
* Not less than 6 units of natural science must be completed in college.


## Two-year Curriculum in Art



## Two-year Curriculum in Music



|  | Units Units |
| :--- | :--- | :--- |
| SECOND YEAR | Sem. I Sem. II |

I
second year
Units Units
Sem. I Sem. II
equivalent Lence L40 or
equivatent
or 3
Social Science I45 L40
*Speech Arts or Foreign
*Music $4 \mathrm{~A}-4 \mathrm{~B}$ or approved
substitute .-...... Applied Music $\qquad$
${ }^{*}$ Elective (including at
least 2 units of music) $-4-5$
Physical Education


## Two-year Curriculum in Accountancy



Art Elective: Art 8A-8B, 7, 11A-11B, 14A-14B, 15A-15B, 16A-16B, 52A, 94.
$*$ See list in italis on page 49. course provided for regular students. four-year standing should take the equivalent

## Two-year Curriculum in Prenursing

A two-year course is available for students planning to enter nurses training. Further information may be secured from the Registrar's office.

## Two-year Curriculum in Secretarial Training



[^7]students qualifled for regular four-year standing should take the equivalent course provided for regular students.

In cooperation with the San Diego City Schools one specialized division of their Junior College program is maintained on this campus. This center endeavors to serve young people who, because of ill health, indefinite objectives, inadequate study habits or other reason, have achieved less in high school than they had hoped to do. Students admitted to this center frequently have no clearly defined vocational and educational objectives or they have set up goals which are too difficult to attain.
The program in this center has the following characteristics:
a. Every course has been developed with the aim of meeting the needs of the type of student admitted. All courses are planned, therefore, to include materials of immediate interest to the student. The content and the proabout himself, about his plans, and about his understanding of and happy adout himself, about his plans, and
adjustment to the world about him.
b. The program gives vocational help, but does not provide vocational courses. While the primary purpose is not vocational training, much of the work study are planned to help the Both the guidance program and the courses of study are planned to help the student make his vocational adjustment.
c. "The program is concerned primarily with general education. The term "general education" is here used to designate those understandings, attitudes, and skills common to all adults who are to live effectively in American Guid
d. Guidance is the principal focus of the program. It attempts specifically to meet the needs of each student through a well coordinated system of group
and individual guidance and and individual guidance and a curriculum planned to aid in the adjustment of the individual to his world.
e. The course is two years in length and upon its successful completion the degree of Associate in Arts is awarded by the San Diego City Board of
Education.

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

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

Fresbmen are not admitted into upper division courses.
A sophomore may enroll in an upper division course for lower division credit provided be bas earned an average grade of not less tban 1.5 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 units required in the lower division.
One "unit" represents an bour recitation or lecture, togetber with the required preparation, or three bours 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 eitber Fall or Spring; (5) Year course. Courses designated as "Year course" begin in the Fall, but those given in the list below before the first semester) or the second semester may be taken alone. In the case of other year courses, students who bave completed the equivalent of the first semester's work may seek permission from the instructor to take the second balf of the course.

Year Courses Open to Registration in the Middle of the Year

| Aesthetics 1A-1B | History 121A-121B |
| :--- | :--- |
| Aesthetics 102A-102B | History 146A-146B |
| Anthropology 1A-1B | History 151A-151B |
| Anthropology 151A-151B | History 156A-156B |
| Economics 160A-160B | History 171A-171B |
| English 52A-52B | History 173A-173B |
| English 56A-56B | Political Science 1A-1B |
| English 106A-106B | Political Science 71A-71B |
| English 107A-107B | Political Science 175A-175B |
| English 117A-117B | Spanish 101A-101B |
| French 101A-101B | Spanish 102A-102B |
| French 105A-105B | Spanish 104A-104B |
| French 107A-107B | Spanish 105A-105B |
| French 110A-110B | Spanish 110A-110B |
| French 111A-111B | Speech Arts 55A-55B |
| History 4A-4B | Speech Arts 55C-55D |
| History 8A-8B | Speech Arts 155A-155B |
| History 111A-111B | Speech Arts 156A-156B |

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

LOWER DIVISION COURSES
Correlation of music and other arts. Designed to stimulate enjoyment of music by developing intelligent listening. The elements of muric its enver by developing intelligent listening. The elements of music, its structure, folk music of with some biographical study of these men recording and by class members. Attendance at a number of local concerts is required No previous musical training or background is necessary. Musie majors are required to complete additional assignments for full eredit. Year course (2-2)

## 5 Fundamentals of Art

Jackson
An illustrated lecture course involving a study of aesthetic meaning and its relation to the structure of art products. Designed to increase both understanding and appeciation of the visual world in general and of the fine arts in particular.
Fall and Spring (2)
50 Appreciation and History of Art
Jackson
A survey of aesthetics development as revealed in the painting, sculpture, architecture, and handicrafts from dawn of art to the Renaissance. Illustrated. Fall (2)

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

Jackson

## UPPER DIVISION COURSES

102A-102B History of Music
D. F. Smith

The various movements in the $\quad$ D. F. Smith chronological development of the art of music, with particular to the other arts. The works. Considerable attention is given to the with particular emphasis on the larger symphonic works are studied from the orchestral works of modern composers. Many to complete additional assignments for full credit. Prerequisite: Aesthetics 1A or 1B. Year course (2-2)
150 Appreciation and History of Art
Jackson
The period from the Ren manner as in Aesthetics 50. Spring (2)

## ANTHROPOLOGY

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

## LOWER DIVISION COURSES

1A-1B General Anthropology
Origin and antiquity of man. Theories of human descent
Origin and early developman. Theories of human descent. Clossification of races. Year course (3-s)

## 54 Social Anthropology <br> An anthronologiopology

The evolution of family organization institutions in primitive and civilized societies. in elementary and advanced civilization, religion, property right, and civilized societies. Spring (3) (Not adfanced civilization.
Spring (3) (Not offered 1944-45)

55 Culture History
Rogers
The prehistoric and historic development of culture types contributing to Western European and American civilization of today. Egyptian, Semitic, Indo-European, and European and American civilization of today. Lgyptian, Semitic, Indo-European, and Methods of culture spread examined and applied to specific traits. Spengler's theory of history and similar doctrines reviewed.
Fall (3) (Not offered in 1944-45)
56 Backgrounds of World Religions
An introductory study of Judaism, Christianity, Islam, Buddhism and Shinto from An introductory study of Judaism, Christianity, Islam, Buddhism and cultural forces. Concepts of Gods and spirits, rituals, ethical systems, and symbolism.
Spring (3)
UPPER DIVISION COURSES
151 A The North American Indian

## Rogers

Pre-Columbian cultures of the North American Indian. The origin and migration of New World peoples. Industries, arts, crafts, social organization, religion and other phases of American Indian civilization.
Fall (3) (Not offered in 1944-45)
151B Indian Civilizations of Middle America
The development of civilization in Pre-Columbian Mexico and Central America: Aztec, Mayan, and related cultures.
Spring (3)
152 Primitive Cultures (Ethnography)
History and cultural development of primitive races of mankind. Consideration given to industries, arts, social organization, and religion of preliterate culture groups.
Fall (3) (Offered in 1944-45 and alternate years)
153 Primitive Religion
Beliefs and ritual of primitive man. Magic and religion. Forms of animism and polytheism. Primitive mentality and the supernatural.
Spring (3) (Offered in 1944-45 and alternate years)
157 Primitive Myths and Rituals
The folklore, mythology, and rituals of primitive cultures in the Eastern Mediterranean area. The early beliefs and classic myths of the Egyptians, Assyrians, Babylonians, and Greeks.
(Not offered 1944-45)

## ART

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

Aesthetics 50, History and Appreciation of Art
Aesthetics 51, Survey of Mexican Art
Other courses which involve certain skills but which are not out of reach of the ability of the average college student are :
Art 6A, Art Structure 2
3

Art A, Freehand drawing| 3 |
| :--- |
| 2 |

For students who might wish to complete a minor in art after having met the lowe division requirements from the preceding page, the following courses are recommended as not requiring any fundamental training in drawing and design:

Art 119, Ceramics
Art 152A, Stage Design
Aesthetics 150, History and Appreciation of Art
Candidates for a teaching credential in art should refer to the statement "Admission to Teacher Education" on page 21.

Lower division preparation for the liberal arts major in art: Aesthetios 5 or 51 , and 50 ; Art $A-B$ and $6 A-6 B$, or the accepted equivalents, and four elective units in art.
Liberal arts major (upper division): Twenty-four upper division units. These shall include Art 112A, 115A-115B, 152A, 195, or the accepted equivalent; Aesthetics 150 It is recommended that the students in meeting degree requirements and in choosing free electives, select from the following courses: Anthropology 151A-151B; English 106A-106B, 107A-107B, 117; French A-B; History 4A-4B, 111A-111B.
For courses in Appreciation and History of Art and Fundamentals of Art, see Aesthetics, page 54. LOWER DIVISION COURSES

A-B Freehand Drawing
Jackson
Semester I: Problems involving perspective to develop ability to draw still life, furniture, exteriors, interiors, and the like.

Semester II: Outdoor sketching of landscape and figure, and studio work from stil life and costume pose. Emphasis on composition and technique in the handling of various mediums, pencil, pen and ink, charcoal, pastel, and water color.
Year course (8-3)

## 6A Structure

Patterson
Fundamentals of design and composition and theory of color. Basic course used a a prerequisite for all advanced work.
Fall and Spring (2)
6B Stucture (continued)
Patterson
Original work in creative de
tendencies. Prerequisite: Art 6 A and representation with special stress on modern Fall and Spring (2)
L7 Line, Color and Display
Patterson
Patterson
The principles of line, color and arrangement applied to store and window display Study and observation of windows, color and applied to store and window display. models and practical problems in arranging and materials used in display. Building fit different kinds of merchandise. Fall and Spring (2) (Not offered
in 1944-45)
8A A survey of the of Costume and Home Furnishing
present time. Fall (2)

8B Lectures, discussions, and demonstrations on the underlying principles of dress modern dress with 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 fashe occa-
sione, form, color, texture, selection and arrangement, texture, fabric, and lighting in relation to the home; the the home. Spring (2)

11A Industrial Design
11A industion forming ceramies, furniture, textiles Original derials and processes in machine and jewelry, and books. A survey art Artion. Prere
Fall (2)
11B Advanced Industrial Design Hamann Advanced problems with emphasis upon the related factors of material and production. Application of problems designed. Prerequisites : Art 6A-6B, 11A.
Spring (2)
L14A Lettering
Hamann
Fundamental art principles applied to lettering. Practice for quick, accurate lettering; original problems using letters as design. Prerequisite: Art 6A.
Fall (2)
14B Posters and Commercial Art The application forms of commercial art study of modern tendencies in publicity. Prerequisites: Art 6A, 14A. Spring (2)

Jackson
15A-15B Life Drawing
Drawing from the nude model. Prerequisite: Art A-B
Year course, beginning either Fall or Spring (2-2)
16A-16B Painting
Jackson
16A-16B Painting Semester I: Composition of still ife and Prerequisite: II: Lands
Art A-B.
Year course, beginning either Fall or Spring (3-3)

## Patterson

52A Stage Design
d costumes
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 moder junior standtheater. Upper division credit will be given in this course to students or joblems. Preing upon the comp
requisite: Art 6 A .

## Fall (2) <br> 52B Stage Costume (See 152B) <br> Fall (2)

Patterson

Hamann
Art 61A Fine and Industrial Arts mification of work of the elementary grades A foundation course which develops unification of work of out of environmental through activities and experiences. These experiences gimber and tools, textiles, and activities. They include study and working of
cardboard construction. Prerequisite: Art 6A.
Fall and Spring (2)
61B Elementary Crafts Problems involving the application of design princip-binding. Prerequisite: Art 6A. textiles, weaving, metal work, wood-carving, and book-bil Fall and Spring (2)

Patterson
94 Costume Design
types ; the
Original designs of modern costumes suitable to the indiv Original destures. Prerequisite Art 6A.
Spring (2)
95 Home Decoration (See Art 195)

## 106A-106B Printmaking

UPPER DIVISION COURSES
mats which includes the making of linoleum blocks, wood engravings, Year course (2-2)

106C Illustration
Hamann
Same as 106A-B except that printmaking is applied to problems of book illustration Prerequisites: Art A, B, 6A.
Spring (2) (Offered in 1942-13 and alternate years)

## 112A-112B Organization

Jackson
Imaginative organization of space by means of color, dark and light, perspective, and or 106 A . or 106 A
Year course (3-3)
115A-115B Life Drawing and Painting
Jackson
Drawing and painting from nude and costume models.
Year course, beginning either Fall or Spring (2-2)

## 115C-115D Advanced Life

Jackson
Painting from nude and costume models and advanced composition in oil. Portraiture. Prerequisite: Art 115A-115B.
Year course, beginning either Fall or Spring (2-2)

## 116A-116B Advanced Painting

technique. Prerequisite: Art from still life and landscape, stressing composition and quisite: Art 16A-16B
(3-3)
152A Stage Design
See Art 52A.
Patterson
152B Stage Costume
Patterson
and character, Prelation to drama, opera and dance. Original designs for mood productions. Prerequisites: Art $6 A$ designing costumes and accessories for college Fall (2)
194 Costume Design (See Art 94)

## 195 Home Decoration

Lectures and designing in class, trips to Patterson studying how to recognize and choose the to art galleries, stores, factories and homes and pottery as to design, color and materials furniture, rugs, wall coverings, textiles arranging furnishings in homes and materials. Actual experience in designing and Arrangement of flowers and objects offices. Working with local stores and architects. requisites : Art A, 6A. Spring (2)

## ASTRONOMY

Lower division preparation .
2, 3, and 9; Mathematics $3 A-3 B$, 4A- 4 B ; Phy desirable for advanced work: Astronomy 1, edge of French and German desirable.

1 Descriptive Astronomy LOWER division courses
A cultural Astronomy
emphasis on the solar system. Only calculationseciation of astronomy with special Especial attention given to the methods and calations of an elementary nature are used. cal knowledge has been gained. A six-inch John Byrne refractor and an eight-inch
reflecting telescope are available for observation. Prerequisites: Elementary algebra and plane geometry.
Fall (3)
2 Modern Astronomy
A study of sidereal astronomy and astrophysics in the light of modern research, especially photographic and spectrographic. Prerequisite: Astronomy 1 and a knowledge of physics or permission of the instructor.
Spring (3) (Not offered in 1944-45)

## 3 Surveyor's Course in Practical Astronomy

The principles of spherical astronomy adapted to the needs of engineering students. Computation and observation. Prerequisites: Surveying 1A or permission of the instructor. Astronomy 1 and 9 desirable.
Spring (2) (Not offered in 1944-45)

## Practice in Observing

A laboratory course designed particularly to go along with and to supplement Astronomy 1. The course will include constellation study, use of astronomical coordinates, lementary methods of determing telescope. Prerequisite: Astronomy 1 or registracelestial objects with the six-inch telescope.
tion in Astronomy 1 or permission of the instructor.
(Not offered in 1944-45)

## 12 Elementary Navigation

A study of compass corrections, drift problems, time, line of position, use of celestial coordinates, Bowditch Tables, etc. A few class hours at the close of the term are devoted to the use of tables such as Ageton, Dreisonstok and 1 f astronomical triangle. Offered if demand is sufficient. Prerequisite : Astronomy 1 or permission of instructor.
Spring (2) (Not offered in 1944-45)

## UPPER DIVISION COURSES

## 100 Special Problems

Admission by credit and hours to be arranged in each case. Open to students who have completed three units in astronomy.
Fall and Spring (1 or 2) (Not offered in 1944-45)

## 105 Historic Development of Astronomy

A study of the more important problems and astronomical concepts in the light of their Particular attention is given to the biography and contribuions of and Bessel.
Spring (3) (Not offered in 1944-45)
107 Method of Least Squares and Computing Practice
applications in the fields of astronomy physics, and engineering
Spring (3) (Not offered in 1944-45)

## TWO-YEAR COURSE

Watson
L40 Elementary Astronomy A survey course planned to acquaint the student with The first part of the course is taining to both the solar system and to the stomical body and to the other planets devoted to the study of the earth as an astrosun and stars. Open only to student The latter part is devoted to a s
Spring (3)

## BIOLOGICAL SCIENCES

The courses offered in Biological Sciences are listed below. Anatomy, see Zoology, page 113; Physiology, page 103; and Zoology, page 113.

## BACTERIOLOGY

LOWER DIVISION COURSES
1 General Bacteriology
Harvey
An introduction to bacteriology. Effects of physical and chemical agencies upon bacteria; biochemical activities of bacteria; microscopic examination and cultivation of bacteria; the Бacteria of air, water, soil, milk and dairy products, other foods; industrial applications. Introduction to disease-producing bacteria. Required of prenursing students. Two hours of lecture and six hours of laboratory per week. Prerequisite: Chemistry 1A or 2A.
Fall (4)

## 199 Special Problems

Harvey
Work other than is outlined in the regular courses. Admission only by consent of the instructor with whom the work is to be done. Credit and hours to be arranged in each department (iompleted at least fifteen units of work in the Fall or Spring (1 or 9) Fall or Spring (1 or 2)

## BIOLOGY

1 Survey of Biology
LOWER DIVISION COURSES
Crouch
A survey of life science, stressing the development of modern concepts in the fields of plant and animal science, bacteriology, genetics, and physiology. Emphasis is placed on the relationships of biology to modern life and the application of scientific analysis to every day problems. Three lectures and one hour of demonstration and discussion per week. Not open to students with credit for Biology 10A-10B, Zoology 1A-1B,
or Botany $2 \mathrm{~A}-2 \mathrm{~B}$. or Botany 2A-2B.
Fall (3)

## 10A-10B General Biology

Johnson
A year course in life science, more extensive than "Biology 1." Continues throughout the year and includes a three-hour laboratory period, and two hours of lectures per open for credit to students who have taken Zo specialize in zoology or botany; not Students who have taken 10A-10B may elect Zoology 1A, Biology 1, or Botany 2A. Year Course (3-3) Begins in Fall only
LA Mathematics of Solutions and Dosage
Arithmetic review with
Johnson
weights and graph making. Two hours dosage, percentage of solutions, apothecaries Fall (1) Two hours per week.

## UPPER DIVISION COURSE

123 Economic Biology
Study of the uses of pla
Harwood
him and his possessions. Consideration to man and the ways in which they injure and conservation. Prerequisites. Cion is also given to general methods of control Fall (2) Prerequisites: Zoology 1A, Biology 1, or Biology 10B.

## TWO YEAR COURSE

## L40 Man and His Biological World

Crouch
in the welfare of man and his biology with emphasis on the role of biological science stration period per week. Not open to sture consisting of three lectures and one demon-
stan zoology, or botany. Open only to students
zonts who have credit in high school biology Spring (3)

## BOTANY

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

LOWER DIVISION COURSES
2A General Botany
Harvey
Fundamentals of structure and general behavior of seed plants. Two lectures or recitations and six hours of laboratory per week.
Fall (4)
2B General Botany Harvey
A continuation of 2A treating morphology and relationship of the lower plants and including an introduction to classification of seed plants. Lectures and laboratory as in 2A.
Spring (4)
4 California Plants Harvey
Classification and ecology of representative orders of wild flowers, trees, and chaparral of the San Diego region, including practice in the use of key
hours labora
5 Cultivated Trees and Shrubs
Recognition of the common cultivated trees and shrubs of the San Diego region. Trips to local parks and private gardens. Three hours per week laboratory or field work. Fall (1) (Not offered in 1944-45)

UPPER DIVISION COURSES
Harvey
102 Plant Geography
Lectures and field work on the principles of geographical distribution of plants. Prerequisite: Botany $2 \mathrm{~A}-2 \mathrm{~B}$, or 4 , or equivalent.
Fall (2) (Offered in 1945-46 and alternate years)

## Harvey

## 04 Plant Taxonomy

解 dentification, classification and distributs per week of laboratory and field work. plants. One hour of lecture and 4
Spring (3) (Offered in 1945-46 and alternate years)

## The Staff

199 Special Problems
ent of the
Work other than is outlined in the above courses. Admission by consent in each instructor with whom the work is to be done. Credit and hours to be arranged Botany case. Open only to stu
Fall and Spring (1 or 2)

## CHEMISTRY

Lower division preparation for the liberal arts major in chemistry: Chemistry $1 \mathrm{~A}-1 \mathrm{~B}$ with an aision preparation better, Chemistry 7-8, Physics 2A-2B and 3A-3B or their equivalent, Mathematics $3 A-3 B$ or the equivalent, and a reading knowledge of German. Students planning to do graduate work in chemistry or chemistry, are certain other colleges and there work for a degree with a mas $3 A-4 B$ in place of the dvised to take Physics 1A-1B-1C-1D and Mathematics SA-sB courses listed above.
$r$ division units
Liberal arts major (upper division): A minimum of twenty-four upper division choice in chemistry including Chemistry 105A-105B, 110A-110 the major student must follow of related minors and the organization of the
a definite plan approved by the department.
For requirements for liberal arts major in physical science, see page 100.

1A-1B General Chemistry
Messner
The general principles and laws of chemistry, and a description of the elements and their compounds. Two lectures, one quiz and two laboratory periods per week. The laboratory work in the second semester consists of work in qualitative analysis Prerequisites: At least two years of high school mathematics. Recommended: High school chemistry and physics.
Year course (5-5)

## 2A-2B General Chemistry

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

## Year course (3-3)

7-8 Organic Chemistry
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 (3-8)
UPPER DIVISION COURSES
105A Quantitative Analysis
Messner
The principles of gravimetric and volumetric analysis. Discussions of the theory of quanples. One lecture and two laboratory periods per week. Prerequisite: Chemistry 1A-1B. One lecture and two laboratory periods per week. Prerequisite: Chemistry Fall (3)
105B Advanced Quantitative Analysis
Messner
Advanced work in the theory and practice of volumetric, Mravimetric and electroistry 105A.
Spring (3) (Not offered in 1944-45)
110A-110B Physical Chemistry
$1 \mathrm{~A}-1 \mathrm{~B}$ or $2 \mathrm{~A}-2 \mathrm{~B}$.ems on theoretical principles of chemistry. Prerequisites: Physics concurrently. With the aledge of calculus and Chemistry 105 A which may be taken concurrently. With the approval of the instructor, advanced courses in physics may be substituted for Chemistry 105A.
Year course (3-8) (Not offered in 1944-45)
111A-111B Physical Chemistry-Laboratory
Physico-chemical problems and measurement
Prerequisites: Credit or registration in Chemis. Two laboratory periods per week. Year course (2-2) (Not offered in 1944-45)
112A-112B Industrial Analysis A laboratory course including the analysis of fuels, petroleum products, water, and
gas. Prerequisite: Chemistry 105A which may be taken concurrently.
(3-3) (Not offered in 194 (3-3) (Not offered in 1944-45)
114 Biochemistry
An introductory
An introductory lecture course covering the carbohyes which thessner
changes which they undergo in digestiong the carbohydrates, proteins, fats and the the vitamins and other accessory food and metabolism as well as a consideration of Chemiscussion of the chemistry of plant life. Pre their importance to the body. A Chemistry 7, 8.
Spring (3) (Offered in 1944-45 and alternate years)

118 Colloid Chemistry
Messner
118 Colioid cheme colloid chemistry and the prepaA lecture course covering the theoretications of colloids. Prerequisite: Chemistry 7-8. Fall (2) (Not offered in 1944-45)

## 123-124 Organic Preparations

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

## 125 History of Chemistry

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

127 Advanced Inorganic Chemistry
A detailed study of the Periodic Table. Discussion of complex inorganic compounds A detailed study of the Periodic 1able. Prerequisite: Chemistry 1A-1B and upper division standing.
Fall (2) (Offered in 1944-45 and alternate years)
144 Industrial Chemistry Industrial stoichiometry, flow sheets, flow of fluids and unit processes. Lectures lems, and reports. Prerequisites: C

199 Special Problems
Instructors of the Department
Supen branches of chemistry. Admission only by
 the consent of the instructor. Hours and crede their ability to do A or B work in Chemistry.
Fall and Spring (1-8) (Not offered in 1944-45)

## COMMERCE

(See Economics and Commerce, below)

## ECONOMICS AND COMMERCE

The department provides anportunity for the student to choose between a解 major in economics and a m
解 Economics. Lower division preparation for the liberal arts mast one of the following: or the junior certificate: Economics 1A-1B, 14A-14B a Political Science $1 A-1 B$ or $71 A-71 B$; History $4 A-4 B$, Sociology 50A-50B;
Geography 10A-10B.
( follows: Economics
Liberal arts major in economics, 24 upper division units required as fected from Economios 100A, 140, and 100B or 111, with 9 or more additional units selected Six or more addi$100 B, 107,111,125,131,133,135,150,171$, and 19 Science $143 A-143 B$ may be substitional upper division units in econom
tuted for elective units in economics.
. Commerce. Candidates for a teaching credential in business education 21 and to the to the statement "Admission to Teacher Education Currial in Business Education on curriculum for

Lower division preparation for the liberal arts major in commerce and for the junior certificate: Economics 1A-1B, 14A-14B, 18A-18B; English 1B, 2; Geography 10A10B, Mathematics C, or equivalent, and Economics 2; History $4 A-4 B$ or $8 A-8 B$ or Political Science 1A-1B or 71A-71B.

Liberal arts major in commerce, 24 upper division units required as follows: Economics 111, 121, 140, with 12 or more units additional chosen in one of the following groups: A. Accounting: Economics 160A-160B, 161, 162.
B. Banking and Finance Economics 133, 135 and 6 units selected from Economics 107, 131, 134, 187.
C. Business Administration: 6 units selected from Economics 123, 125, 137, 142, 150 Electives: 9 or more additional upper division units in economics.

## LOWER DIVISION COURSES

1A-1B Principles of Economics
Cameron
The basic principles of economics : utility, wealth, value, price ; economic production, oly, and large scale banking, interna socialism, socialism, taxation, etc. Aims of the course: (1) to provide a foundation for further business pursuits economic problems; (2) to furnish to those who expect to follow future citizens to politiod foundation in economic principles; and (3) to introduce quizzes, quizzes, and collateral reading. Not open to entering freshmen except by special arrangement
Year course (8-8)
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. Pre requisites: 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 not advantageous. The balance sheet; izations, dissolutions, and books for different kinds of businesses; organizations, reorganing practice. Five hours consolidations, ete., keeping in view the best modern accountYear course (3-3)
Year course (3-3)
18A-18B Commercial Law
The leading and fundamental principles of business law. Simple cases showing the than the development of those principles. The and business transactions, rather agency, partnerships, corporations, real pres. The subjects covered: contracts, sales, and wills, with a brief study of evideal property, negotiable instruments, insurance, Fear course (3-s)

## UPPER DIVISION COURSES

100A Modern Economic Thought
Cameron
special reference to value anomic thought in the light of recent economic theory with utility theory of value, and distribution. Special attention is given to the marginal inditutional economists, and to pall (8)
Fall (3)

100B Modern Economic Thought
A problem course. Subjects include price theory; distribution with particular emphasis on income; effects of various kinds and degrees of competition and regulation; war economy and government planning. Recommended: Economics 100A.
Spring (3) (Not offered in 1944-45)
103 The Economics of War and Post-War Recovery and
A. G. Peterson Reconstruction
Backgrounds of the Present War; II, The Requirements of War Economy; III, International Recovery and Reconstruction; IV, National Recovery and Reconstruction.
Spring (3)
107 Credit and Credit Institutions
A study of the economies of credit, its cost, and the agencies supplying credit. Special attention is given to the growth of government credit agencies and their place in modern economic society. Prerequisite: Economics 1A-1B. Recommended: Eco nomies 100 .
Spring (3) (Not offered in 1944-45)
111 Economic History of the United States
A comprehensive survey of American economic development and of national legislation in the field of industry.
Spring (3)
121 Business Administration
A. G. Peterson

Problems of business administration as an interrelated whole and as an indication of lines of stady which a problems. A discussion of of lines of study which may lead to the solems 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, problens 1A-1B.
Fall (3)

## 123 Principles of Marketing

A survey of the fundamental principles and methods of marketing. Intended as a A survey of the fundamental principles and metnomics of advertising, sales managemen training for students interested in the econo those wishing a knowledge of the ment, retailing, and foreign trade, as well as for those wisice policies, distribution existing market structure. Subjects covered inernmental regulation. Prerequisite: Economics 1Ane,
Spring (3) (Offered 1945-46 and alternate years)

## 125 General Insurance-Principles and Practice

Eeonomice to both the individual and busiensomic theory of risk, its extent and importance to ; types of insurance carriers; ness; transfer of risk; distribution and prevention of loss; types special forms of life, problems of rate making; the insurance contract; co

## Fall (3) (Not offered in 1944-45)

## 127 Life Insurance-Principles and Practice

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

## Fall (8) (Not offered in 1944-45)

## 128 Land Economics

Real estate in transfer of title, valuation, finance, selling, estate in all its aspects : property rights, transfer of tinning, and the like, with special emphasis management, taxation, exist in San Diego.
Spring (3) (Not offered in 1944-45)
5-31196

131 Public Finance and Taxation
A. G. Peterson

Principles and practice of taxation, public expenditures, and financial administration. Economic effects of public expenditure, indebtedness, and taxation. Prerequisite: Economics 1A-1B
Spring (3) (Not offered in 1944-45)
133 Corporation Finance
Cameron
The corporate form of organization, instruments of long-time finance, methods of raising capital, efficient financial management, the financing of reorganizations, and governmental control. Prerequisite: Economics 1A-1B.
Fall (3)
134 Investments
Cameron
Investment principles and practices with emphasis upon problems of the small investor, such as tests of a good investment, sources of information, types of stocks and bonds, mechanies of purchase and sale, investment trusts, real estate mortgages, and the like.
Spring (3)
135 Money and Banking
Cameron
The elements of monetary theory. History and principles of banking with special reference to the banking system of the United States. Prerequisite: Economics 1A-1B Spring (3)

## 137 Credits and Collections

Cameron
The credit man and his work, including the instruments with which he works, sources of credit information, the technique of his department, collection methods, legislation for the protection of debtor and creditor, and credit insurance
Fall (3) (Not offered in 1945-45)

## 140 Statistical Methods

The nature and uses of statistical method in the social sciences. Practice in tabular and graphic presentation of data; analysis of frequency and time series; index number D, or equivalent.
Fall (3)

## 142 Business Fluctuations and Business Forecasting

Study of current business conditions cycles are analyzed and cycle theories are examined. tical application of forecasting methods to both in the course and develops into pracEconomies 140.
Spring (3) (Not offered in 1944-45)

## 150 Labor Problems and Industrial Relations <br> A discussion of employment Relations

A. G. Peterson
A. G. Petensions
workmen's compensation, labor organizations working conditions, insurance, pension o personnel functions; selective devices, training and safety programs, compensation plans, morale.
Spring (4) (Offered in 1945-46 and alternate years)
160A-160B Advanced Accounting
Wright
An intensive study of the corporation, its accounting and financial problems; a thor-
ough study of the balance sheet; depriat ough study of the balance sheet; depreciation; factory accounting, etc. Under prac-
tical anding an endeavor meet the needs of differentor is made to design, construct, and operate sets of books to laboratory. Prerequisite. Enditions and kinds of businesses. Six hours lecture and Year course Prerequisite: Economics 14A-14B.
Year course (3-3) (Offered in 1941-45 14A-14B.

161 Cost Accounting
Principles and methods of cost accounting in the mercantile establishment and in the factory. A study of bookkeeping procedure, the forms used, and their application to practical problems. Prerequisite: Economics 14A-14B.
Fall (8) (Offered in 1945-46 and alternate years)
162 Accounting Systems
Wright
The accounting systems used in various types of business and financial concerns. Some practice in devising and installing systems. Prerequisite : Economics 14A-14B.
Spring (3) (Offered in 1945-46 and alternate years)
164 Income Tax Procedure
Wright
A consideration of the problems arising from the Federal income tax. The problems Are approna are rem as well as from the account ing point of viow.
Fall (3) (Not offered in 1944-45)

## 165A-165B Auditing

The fundamental principles of accepted procedures of auditing and related types of accounting engagements.
Year course (8-3) (Not offered in 1944-45)

## 166 Honors Course

See page 15.
Fall (3) or Spring (3)

## Wright

167 Governmental Accounting A comparative study of accounting systems used by municipalities, coer procedures in state of California; detailed comparisons with combrances ; subsidiary records ; cos handling budget accounts, appropriat
records; internal checks; auditing.
Spring (3) (Not offered in 1944-45)
171 Transportation Cameron $\quad$ C materng; rates and rate making; The development of railway transportation; railroad financing; rates and rate making, governmental regulation; government operation of railroads during the war, recies. development of motor and air transportation; current problems in public utties. Prerequisite: Economics 1A-1B.
Fall (3) (Offered on demand)
A. G. Peterson

## 195 International Economic Relations

A brief treatment of certain geographical, sociological, and legal phases of internationy relations followed by a study of the commercial and industrial basis touching upon a rials covering the processes, principles, and policies of international trade. concerns itself primarily with the economic basis of international relations, fact that cal aspects are almost constantly taken into account in recognition of the fact internatis are almost constantly taken into accorm but economic in content.
(Offered in the summer session)

## A. G. Peterson

198 Investigation and Report Designed Designed to stimulate independent study and investigation; to furnish guta to improve the techique oflection, organ
Fall and Spring (1-3)

## TWO-YEAR COURSES

Watenpaugh
L15A-L15B Elementary Accounting recording busiAn introductory course in the fundamental principles of acinds of business in accordness transactions; opening and closing books of diferent combined with actual pracance with modern accounting practice; accounting theory
tice. Balance sheet ; profit and loss statements ; accounts ; book of entry, etc. Planned for students entering accounting work who must confine their preparation to one or two years. Open only to students enrolled in a two-year curriculum. Year course (3-8)

L16A-L16B Secretarial Accounting
Watenpaugh
A course in secretarial accounting covering the fundamental principles of accounting and the application of these principles to the accounting work required by one employed in a secretarial capacity. Open only to students enrolled in a two-year curriculum. Year course (3-3)

## L45A-L45B Business Economics

- Cameron

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

## L65A-L65B Record Keeping

Watenpaugh
An advanced course in the application of accounting theory and anght ing practice; the technical arrangement of accounting theory and principles to accountin business; advanced theory. Opportunity affoting forms, records and reports found tice sets, etc. to secure practice in applying afforded students through the use of pracPrerequisite: Accountin to actual work done in business. to students enrolled in a two-15B or 16A-16B or Economics 14A-14B. Open only Year course (8-3)

## COMPARATIVE LITERATURE

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

LOWER DIVISION COURSES
For a description World Literature
Year course (3-3)

UPPER DIVISION COURSES
101A Modern Continental Fiction
Dickhaut
For description, see English 101A.
Spring (3) (Offered in 1944-45
na alternate years)
A study of the princan Literature in English
Phillips

## A study of the principal writers of the

Spanish credit will be in English transactions. Class countries, with lectures in Spring (3) (Offered in 1943 115 pring (3) (Offered in 1943-44 and alternate years)
115 The Bible as Literature
For description, see English 115.
Kennedy
Fall (3) (Not offered in 1944-45)

140 Masterpieces of French Literature
E. M. Brown

A cultural course designed to be given in introduction to the great French works from the Song of Roland through Cyrano de Bergerac, with emphasis on the 16th, 17 th, 18th and 19th century authors. The contributions to world thinking of Rabelais, Montaigne, Moliere, Racine, Descartes, Pascal, Montesquieu, Voltaire, Rousseau, Hugo, Balzac, Flaubert, Maupassant, Zola, will be studied through lectures and outside readings.
Fall (3) (Offered in 1945-46 and alternate years)

## 142 German Literature in English

Walker
Masterpieces of German literature from the 18th and early 19th centuries. English translations read. No knowledge of German required.

## Spring (3) (Offered in 1944-45 and alternate years)

## 144 Spanish Literature in English

A study of the principal Spanish writers, emphasizing the 17 th and 19th centuries and stressing the relationships between Spanish and other European literature.
All lectures, collateral reading and reports in English.
Fall (8) (Not offered in 194/-45)
152A Survey of Drama: Comedy
For description, see English 152A.
Fall (3) (Not offered in 1944-45)
152B Survey of Drama: Tragedy
For description, see English 152B.
Spring (3) (Not offered in 1944-45 and alternate years)
Rogers

## 157 Primitive Myths and Rituals

For description, see Anthropology 157.
Spring (3) (Offered in 1945-46 and alternate years)

## EDUCATION

UPPER DIVISION COURSES
Deputy
L100A Methods and Materials of Instruction A course required of all candidates for the junior high and all special secondary credentials. It deals with general methods of instruction and for a combination of functions of the secondary school curriculum. Candidates either a junior high or a special secondary with an elementarse, but not vice versa. stitute the work of the elemen
Prerequisite: junior standing.
Fall and Spring (3)
Tinsley and major subject instructors
L100B Methods and Materials of Instruction field of the teaching
The course deals with specific methods and materials in the field of the teacing major or minor.

Semester offered
Subject sections in L100B are as follows:
Ed. L100B-A, Methods in Art
Ed. L100B-B, Methods in Bookkeeping
Ed. L100B-BE, Methods in Bus. Educ
Ed. L100B-E, Methods in English
Ed, L100B-I
Ed, L100B-L, Romance Language Methods
Ed. L100B-MA, Mathematics

Ed. L100B-MA, Mathematics
Ed. L100B-ME, Methods in Merchandising
Ed. L100B-MU, Methods in Music
Ed. L100B-PE, Methods in Phys. Ed. (Men)
Ed. L100B-PE, Methods in Phys. Ed. (Men)
Ed. L100B-PE, Methods in Phys. Ed. (Women)
Ed. L100B-PE, Methods in Phys.
Ed. L100B-SC, Methods in Science
Ed. L100B-SC, Methods in Science
Ed. L100B-SA, Methods in Speech Arts
Ed. L100B-SA, Methods in Speech Aregraphy
Spring

Ed. L100B-S.SC, Methods in Soci
Ed. L100B-T, Methods in Typing

One unit of this course is to be taken with the college supervisor of directed teaching in the secondary schools and must be taken in conjunction with the first assignment of directed teaching; two units are taken with an instructor in the major subject field. Fall and/or Spring, as indicated (3)

## 102A Measurement in Education

## Deputy, Tinsley

A course required of all students preparing for a teaching credential. It deals with the use of tests in the diagnosis and improvement of learning; construction of objective examinations; problems of evaluation in education; and the elements of statis-
tical techniques.
Fall and Spring (3)
102B Child Growth and Development
Deputy
The course deals with a study of the mental, emotional, social, and physical development during childhood and adolescence.
Directed observation required. Students who have credit in Psychology 102A or 102B will receive only half credit for this course.
Fall and Spring (3)
LE109B Educational Administration and Supervision Field Work
Individual field work as required for the administration credential. By arrangement with the Dean of Education. (3)

## LS110 Educational Organization and Supervision

Types of supervision and methods of evaluating and improving teaching. Prerequisites: Graduation from college with a teaching credential or two or more years of g experience
Summer (8)
LS111 English in the Junior High School (See Education 100B)
Objectives of literature and language teaching in the junior high school; criteria for selection of material; technique of classroom procedure; observation in the crity schools. Prerequisite: The satisfaction of the lower division requirements in English for the teaching major in English.
Summer (3)
LS114 Social Science in the Junior High School (See Education 100B) science suited to the of the elementary facts and principles of a "general" social through the medium of such history, geography, and civics. Mitudies in the junior high school curriculum as interest in social and civics. Methods of developing a genuine and continuing illustrated. Special stress on ems through observation and reading, discussed and educative purposes on thess on evaluating historical and geographical material for of history. Summer (3)

## Education 115A History and Philosophy of Education <br> Historical backgrounds and underlying phion

Ault school system has been established. Required of all upon which the modern public mentary and general junior high school credentials candidates for the general elecredential candidates. Prerequisite : senior credentials. Recommended for all other Fall and Spring (3)

## Education 115B Secondary Education

Tinsley
zation and development. tedary education; curricular organization; trends in organiciples. Required of all candidater and pupil personnel; underlying aims and prinschool credentials. Prerequisite. senion the general junior high and special secondary Fall and Spring (3)

L116 Directed Teaching
Ault, Deputy, Madden, Tinsley Systematic observation, participation and teaching under supervision in the campus elementary school, the affiliated city elementary school, the Woodrow Wilson Junior How School, and the Herbert Hoover Senior High School. All students enrolled in High school, and in the secondary schools are automatically enrolled in Education directed teaching in the secondary schools are automed in the time schedule.
the general plan is for elementary school credential candidates to take, in addition to the education practicums, a half-day of teaching daily in the campus elementary school or two and one-half hours daily in one of the affiliated city elementary schools throughout one semester. Junior high school and special secondary school eredential candidates will be guided by their adviser relative to the distribution of their directed teaching. For those seeking a combination of credentials, the requirements for each teaching. For those seeking a comburg level must be satisfied. Further information regarding this requirement
 directed teaching.
Thirty elock hars of directed teaching will usually carry one unit of credit in the course, but the final amount of credit allowed will depend upon the character and course, but the final amount of credudent. Directed teaching requirements may be reduced for those who furnish evidence of successful public school experience.
The maximum amount of eredit allowed for this course is twelve units.
The universities usually reduce the amount of directed teaching credit they will allow to four units. to cur units. Students planning to transfer to such instituts in other courses.
to meet this reduction with an equal number of acceptabe.
preat ; admission to teacher education ; Prerequisites: Completion of 75 units of college work; admission semester; three units a $C$ average in all college work and in the work of the prece ing this college. No credit of work in psychology; a minimum of one semester's work in the office of the Dean of will be give

Hunt
L117A Music in the Elementary School Main objectives of music teaching in the public elementary schools. presenting rote child voice. Organization of song material by grades. And part singing. Conductsongs, ear training, elementary notation, music reade, ential, nor to freshmen. Pre ing. Not requisite: Music 1A, or the equivalent.
Fall and Spring (2)
L117B Methods in Instrumental Music and conducting school bands and A study of the theory of problems or organizing and conducting in experience in conducting orchestras the theory of problems or organizides practical experience in condenning a children's orchestra and teaching sectional groups. A study of syste
of courses of study form and abilities will be made.
Fall and Spring (2)
Patterson
L119 Art in the Elementary School Discussion of the elements and principles of art and their pillustrated with examples and appreciation of the elementary school child. Lectures with mediums used in eleof children's work and opportunity given for experience whe elementary credential. of children's work and opportunity given starents taking the elementary credent Prerequisite: Art 6A.
Fall and Spring (2)
L. D. Smith

L127 Secondary Music Education (See Education 100B) Organization of Main objectives of music teaching in the public secondary schools. Organization of the chorus and glee clubs, voice testing, seating, a survey of song materias.
rganization of courses in applied music, har years)

LS130 Educational Psychology
Man's equipment for learning and the learning process. Consideration given to human behavior which is fundamental to learning. The study of learning includes such topic as laws of learning, improvements in learning, remembering and forgetting, fatigue in learning, and the transfer of training. Prerequisite: Psychology 1A Summer (3)

L145 Organization and Administration of Music Education
L. D. Smith Theory of the general principles of music administration; correlation of music with the various subjects in the public schools; music tests; creative work.
Fall (2) (Offered in 1941-45 and alternate years)

## L147A Education Practicum (Kindergarten-Primary)

. Hammack, Hunt, Madden, Patterso
The course is a continuation of L147B. It is a study of kindergarten education and must be accompanied by directed teaching in the kindergarten. The course includes elementary art education (1), elementary music education (1), children's literature (2), kindergarten-primary education (4), and educational psychology (2). Pre requisite, L1477B.
Fall and Spring (10)

## L147B Education Practicum

Bacon, E. Hammack, I. Hammack, Hunt, Madden, Redit This course is required of all students who expect to receive a credential which will qualify them to teach in the kindergarten or in the elementary school Students should take the course during the next semester after admission to shool. Student which is usually the first semester of the junior year to small groups.

Education Practicum is a unified course which deals with the interpretation and inteligent application of theory and practice in elementary education. The child learning is inter knowledge are studied as one affects the other. The psychology of experiencing of children. Fhie the college student is immediately associated with the experiencing of children. For two or three hours eaeh day classes are held in which knowledge and concurrently iny of education are studied and analyzed as systems of tion to which the student is anpreted in reference to the actual teaching participaelementary art education mental hygiene (2), and directed teaching (2).
The course is taurht by
Elementary is taught by college instructors who are in direct contact with the Campus Fall and Sbing (12)

L148 Education Practicum
Brydegaard, Corbett, Hunt, Madden, Patterson, Schwob, B. Stone candidates for the general element. L147B and is required of all students who are the psychology of education elementary credential. An extended analysis is made of teaching in grades 4 to 7 . The course inclus and application is made through directed tary music education (1), elementary includes elementary art education (1), elemen(2), elementary education methods (4ealth education (2), educational psychology L147B. Fall and Spring (12)
LE170 Administration of a Visual Instruction Program
organizing and distribut asual instruction center is studied as a collecting, selecting, organizing and distributing center for classroom illustrative a materials; a selecting,
training and adyer training and advisory bureau in the technique and correct use of visual aids; a photothe curriculum; a laboratory for making current and local illustrative materials for and upkeep of same a a center division for evaluating visual equipment, standardization opportunities offered a center for correlating and integrating the school program with opportunities offered by other community educational institutions and organd orgam with
an advisory department for supervising school film productions and for instrueting 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 bead of the Education Department and with the instructor.

## Pall and Spring (2)

LS175A Administration and Supervision of an Elementary School Summer (3)
LS175B City School Administration Swmmer (2-8)
L176 Speech Arts in the Secondary School (See Education L100B) Organization and conduct of junior high and high school speech activities. Fall (2)
L199 Educational Problems

## Education Staff

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

## ENGINEERING

(For curriculum in engineering see pages 42-44.)

## LOWER DIVISION

Gleason
1A-1B Plane Surveying and map-making, together Use and adjustment of surveying instruments, computations and map-making, together with a study of land, topographic, city, and mine surveying. Two ins. Prerequisites: and one three-hour period for field work and mapping each week. Pre standing. Trigonometry and Mechanical Drawing, or equivalent, and Year course (3-3)

83 Summer Class in Surveying
Practical field problems in ring triangulation, location and topraphic surreys, surveys. Observations for meridian, time and latitude. Precy, and professional skill angular measurements. Development of self-reliance, accuracy, nins near San Diego. on the part of the student. Four weeks course held in the moute of opening, and other 2rrangementsarding location of camp, date of registration, da may be secured at the Registrments, a special announcement of the survise : Surveying 1A-1B. Registrar's O
Summer ( 3 )

Walling
21 Descriptive Geometry
Fundamental Geometry enkineering pectes of descriptive geometry and One year of mechanical drawing, and sophomore standing.
Fall (3)
Walling
${ }^{22}$ Machine Drawing Design and drawing of simple machine parts with emphasis upon the p 21, Mathestandard drawin
matics 3A-3B.
Spring (3)
Walling
${ }^{23}$ Materials of Construction andability of the principle
Manufacturing processes, structural properties and adaptability of standing.
naterials used incesses, structural propertes quisite: Sophomore stanaug.
Spring (2)

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

## 105 Hydraulics

Walling
A general course in hydraulics including the fundamental principles of hydrostatics and hydrodynamies applied to the flow of water through orifices, over weirs, through pipes and canals. Lectures and problems. Prerequisites : Mathematics 4A, Physics 1C. Recommended : Physics 105A-105B.
Spring (3) (Not offered 1944-45)
123 Materials of Construction
Walling
Essentially the same as Engin
investigate more fully some Engineering 23 except that students will be expected to upon it. Prerequisites : Che particular material or process and prepare a written report Spring (2)
Spring (2)
128 Elements of Heat Power Engineering
Walling
Fundamental consideration of fuels, combustion, steam, boilers, furnaces, chimneys,
steam engines, steam steam engines, steam turbines and auxiliaries, internal combustion engines. Lectures Fall (3) (Not offered 1941 : Mathematics 4A, Physics 1B.
Fall (3) (Not offered 1941-45)

## ENGLISH

Lower division preparation for the liberal arts major in English: at least 12 units of work, including 1B, $56 \mathrm{~A}, 56 \mathrm{~B}$. Upper division requirements for the liberal arts major: lowing: 112, 116A, 116B, 117 A $117 B$ English courses, including 18 units from the for tion arrangement of courses under the 118A, 118B, 119, 121, 126, 151, 160; (2) seleclish department ; (3) a reading knoveledgervision of an adviser appointed by the EngFrench, German, Italian, Latin. Sedge of one of the languages taught in the College: full years of lower division Latin, Spanish. (By "reading knowledge" is meant two languages, in upper division work, or the equivalent. Further work in one of these


LOWER DIVISION COURSES
L1A Subject A: English Composition
The Staff
vocabulary building composition, including drill in grammar and usage; exercises in equivalent to passing and careful reading; theme writing. Credit in this course is equivalent to passing the English A Examination, and admits to English 2 courses.
Fall and Spring (3)

## L1AA Reading Efficiency and Vocabulary Extension

Trail

## Special drill in reading for compreabulary Extension

tary composition. Systematic, progressive, vocabulary building; practice in elemeneffective reading and methic, progressive, and intensive training and practice in English L1A. Fall and Spring (8)
The first First-Year Reading and Composition
The Staff
He first half year 1B, is composition
may be chosen from any section of Englith with exposition stressed. The second half year pleted either 1B ing and the analysis of literature is a continuation of composition, inits of corl 1 B or L1A. By completing 1 B and is open to students who have cons Students may elect mosition.
Students may elect more than one section of English 2.

1B Composition

## The Staff

Exposition is stressed. Prerequisite: satisfactory Subject A test. Not open to students who have taken English L1A or L1AA.
Fall and Spring (3)

## A Argumentation

I study of the underlying principles of, and of the methods involved in, writing噱 in both shorter and longer forms of such writing.
Spring (3) (Not offered in 1944-45)
F. L. Johnson

2B Biography F. L. Johnson Composition, stressing p
Fall and Spring (3)
${ }^{2}$ C Periodical Literature
Dickhaut
Composition stressing article writing of varied types. Reading from current periodical literature.
Fall and Spring (3)

## D Foundations of the Language

An elementary course in English linguistics designed to make more significant the native language through a study of the elements which have gone into the composition of its vocabulary.
Fall and Spring (8) (Not offered in 1944-45)
F. L. Johnson

2E Modern Drama
Composition based upon the reading of recent plays and dramatic criticism.
Spring (3)
2F Short Story Writing
A practical course in writing, including a study of short story technique and markets, and the writing of complete short stories.
Spring (3) (Not offered in 1944-45)
Keeney
2G Freshman Literature
American
In intreshman Literature culture, with composition.
Fall and Spring (3)
Amsden
L8 English in Business Business letters as applied salesmanTheory and practice of business correspondence. Business letters as applor employment, ship; problems in writing credit and collection letters, applicatiA or equivalent, as adjustment letters, and sales letters. Prerequisite: English This course is planned indicated by Subje for stud oy Dubject A Examine or lish requirements in other fields.
Fall and Spring (3)
The Staff
10 Recreational Reading Development of personal tastes for leisure-time reading through
written reports. May be taken a second time with new material.
Fall and Spring (1)
50A-50B Survey of American Literature Semits beginnings to 1860. Semester II: Semester I: A survey of American literature from its beginnings to 1860 , Seports. American literature from 1860 to the present.
Year Course (3-3)

52A-52B Types of World Literature
A chronological survey from Homer to modern times. The first semester stresses the classical epic and tragedy. The second semester, beginning with the Renaissance, stresses prose fiction, the drama, and the essay.
Year course ( $8-3$ )
56A-56B Survey of English Literature
Keeney
The study of some important works of English literature from the Anglo-Saxon period through the Victorian age, with emphasis upon the literary history of each period. Year course (3-3)

UPPER DIVISION COURSES
Dickhaut
101A Modern Continental Fiction Scandinavian, Italian, and German norelists A survey of leading French, Russian, Scandinavian, Italian, and Germa and short story writers, from Tolstoy and his associa

## 101B Modern British Fiction

The novel and short story, especially of the last quarter of a century.
Spring (3) (Offered in 1945-46 and alternate years)
104 Latin-American Literature in English
Phillips
A survey of the literature of the Latin-American countries, with lectures in Engiss and reading in English translations. Class reports on collateral reading. Spanis credit will be given to those who wish to do the requisite reading in Spanish.
Spring (3) (Offered in 1945-46 and alternate years)
Dickhaut
106A, 106B Advanced Composition
A laboratory course in modern prose writing. Semester I : Artistic narrative, with description. The short story. Semester II : The essay, the magazine artie, Outside readings. Prerequisite: One year of college composition. Either semer be taken first.
Fall, Spring (3-3) (Offered in 1945-46 and alternate years)
107A, 107B Advanced Composition
composi
These courses are designed for students who wish to do independent work in comped in tion. The discussions will consider the problems of effective expression as exhiblither the work of the members of the class. Prerequisite: Same as for 106A, 106 semester may be taken first.
Fall, Spring (8-8) (Offered in 1944-45 and alternate years)

## 110 Recreational Reading

An advanced course in the group reading of modern drama, poetry and fiction.
Fall and Spring (1 or 2)
112 The English Language
An inductive historical approach to basic aspects of the language. The course inengish an analysis of English sounds, grammar, and syntax, begimning with Modern and going back through Early Modern, Middle, and Old English.
Fall (3) (Not offered in 1944-45)

## 113 American English

The rise of American lary ; slang, regional and cultural differences.
Spring (3) (Offered in 1945-46 and alternate years)

## 115 The English Bible as Literature

A study of the Readings, reports, lectures, and discussions.
Fall (3) (Not offered in 1944-45)

116A The Age of Elizabeth
Poetry and prose, exclusive of the drama.
Spring (3) (Not offered in 1944-45)
F. L. Johnson

## 168 The Elizabethan Drama

F. L. Johnson

Principal contemporaries of Shakespeare.
Spring (3) (Offered in 1945-46 and alternate years)
F. L. Johnson

117A-117B Shakespeare
A chronological survey. The first semester gives special emphasis to the histories and medies; the second, to tragedy and the dramatic romances.
Year course (3-8)
118A The Age of Swift and Pope A study of the literature of the first half of the eighteenth century, emphasis on social satire of Swift, Pope, Addison, Steele, Gay and Prior
Spring (3) (Offered in 1945-46 and alternate years)
Keeney
a
A study of Johnson and his circle as representative of their age,
of Burns, Blake, and others as forerunners of the ag
Spring (8) (Offered in 1944-45 and alternate years)
119 The Romantic Period: Poetry
eridge,
A study of early nineteenth century poetry; the work of Wordsworth, Coled.
Byron, Shelley, and Keats, in relation to the thought of the revolutionary period.
Fall (8) (Offered in 1945-46 and alternate years)
121 The Victorian Period: Poetry
study of Thyson and Browning and their contemporaries and successors, relating English poetry to nineteenth century life and thought.
Fall (3) (Offered in 1944-45 and alternate years)
126 Nineteenth Century British Prose Coleridge, Hazlitt, Lamb, Romantic and mid-Victorian prose writers, including Co DeQuincey, Carlyle, Landor, Macaulay, Mill and Thackeray.
Fall (3) (Offered in 1944-45 and alternate years)

## 127 Modern British Prose

, Huxley
Late nineteenth and early twentieth century essays of Arnold
Newman, Pater, Ruskin, Shaw, Stevenson, Wells, and others.
Fall (3) (Offered in 1945-46 and alternate years)
Adams
130A American Literature: to 1900 Adary A survey of literary movements in the United States to the late nineteent cish 50A. Fall
Pall (3)
Kennedy
132 The Frontier and American Literature colonial days A survey of the influence of the frontier upon American literature from colowe writers the present. Studies in source materials, biog
such as Irving, Cooper, Harte, and Mark Twain
Fall (3) (Offered in 1944-45 and alternate years)
133 American Fiction
Spring (3) (Offeriters of novels and short stories,

134 American Literature: 1900 to the present
Kennedy
A survey of American literature since 1900 with emphasis upon contemporary poetry, fiction and drama. Not open to students with credit in English 50B.
Spring (3)

## 143 The Novel

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

## 151 Chaucer

Keeney
The study of Chaucer's works, and a consideration of the social and literary backgrounds of the fourteenth century.

## Fall (3)

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

## 152B Survey of Drama: Tragedy

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

## 160 The Age of Milton

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

## 166 Honors Cours

Special study. Open to members of the Honors Group in English (See page 21.)
Fall and Spring (1 to 5-1 to 5)

## 167 Research: Advanced Honors Course <br> Special study Open Cours

English literature, and to mature, specially qualified students, graduates, teachers of research in the field of others who have demonstrated marked aptitude for intensire Fall and Spring (3-5) English literature.
pring (3-5)
Comparative Literature. For other courses in literature, offered by members of the English Department and other departments, see Comparative Literature, page 68 .

## TWO-YEAR COURSES

L40A Beginning Composition
The Two-Year Staff
The elements of compositition vocabulary building and can, including drill in grammar and usage; exercises in students.
Fall and Spring (3)
L40B Freshman English
The Two-Year Staff
Cumposition stressing ish
The Two-Year
Satisfactory Subject A test. Open. Reading from essays and articles. Prerequisites Fall and Spring (3)

## L40C Freshman Literature

The Two-Year Staff Literature, mainly

The Two-Year
d ideas, especially in relation to human problems and their solution. Practice in writing is continued.
Prerequisite : One Prerequisite: One semester of Freshman English. Practice in writing is contirents;
open only to Two open only to Two-Year students.
Fall and Spring (3)

L45 Sophomore English: Biography
The Two-Year Staff
Composition stressing personal narrative and informal essay. Reading from field of biography and memoirs. Prerequisite: English L40A or L40B, and English LA0C. Open only to Two-Year students.
Fall (3)
L46 Sophomore English Contemporary Literature
The Two-Year Staff Study of contemporary literature, with emphasis on various forms, such as the novel, poetry, drama, etc., as used by the principal writers of the twentieth century world. The main objective of the course is to give students a background for the major portion of their reading beyond college. Open only to Two-Year students. Spring (3)

## FOREIGN LANGUAGES

The courses offered in foreign languages are listed below. See pages listed after each bject for a more complete description of the offerings under that designation. French, see below; General Language, page 80 ; German, page 83 ; Italian, page 86 ; Latin, page 87; and Spanish, page 109.
As a background for advanced work in Romance languages, students are advised to As a background for advanced work in Romance languages, students are advised 118, include in their electives as many as possible of the following courses. 56A, 56B, 101 ,
History $121 \mathrm{~A}, 121 \mathrm{~B}, 147$, Aesthetics 50 or 150; English 52A, 52B, 56A,
$118 \mathrm{~A}, 119,148$. 18A, 119, 148.

## FRENCH

Lower division preparation for the liberal arts major in French: French A-B-C-D; either German $A-B$ or Spanish $A-B$; History $4 A-4 B$.
Liberal arts major in French : Twenty-four units of upper division work, of which Liberal arts major in French : Twenty-four units of upper divis may be in related subjects, arranged in consultation with the chairman of the department. At least a C verage in upper division major courses.

LOWER DIVISION COURSES
A-B Elementary
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 résumé; dictation ; introduction to contemporary prose writers. Credit ar of French French A unless followed by French B. Students who have had one year who have had in high school should register for two units of work in French A. Tosk in French B. wo years of French in high school should register for four units of work in French B. Year course (5-5)
E. M. Brown, Phillips

C-D Intermediate Reading
class work, collateral
Reading and composition ; study of standard prose as a basis for ciasidual conferences. eading with résumés and written reports in French; dictation. Individual confent. StuPrerequisite : French B or three years of high school French, or itnch D.
Year with four yea
SC Scientific Reading
L. P. Brown
eading Outsidg taken from the fields of chemistry, physies, medicine, French B or equivalent
Fall (2) (Offered in 1944-45 if demand is sufficient)

## 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 $\sigma$. Year course (3-8) (Offered in 1945-46)
107A-107B Eighteenth Century Literature
L. P. Brown

The works of Montesquieu, Voltaire, Rousseau, the Encyclopedistes, and others. Prerequisite : French D, or its equivalent, with a grade of $C$.
Year course (3-s)

## 110A-11B 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, Bordeaur Bazin, Barrè, Romain Rolland, A. Gide, Marcel Proust, and others. Class and outside reading and reports. Prerequisite: French D, or its equivalent, with grade of $O$. Year course (8-3) (Offered in 1947-48)

## 111A-111B Seventeenth Century Dramatic Literature

E. M. Brown

Reading in class of plays of Molière, Corneille, and Racine
lectures on the background of the seventeentheille, and Racine. Outside readings and D or its equivalent, with a grade of $C$. Year course (3-3) (Offered in 1946-47)
199 Comprehensive Reading and Survey Course
forigned to fill up the gaps in the reading done in courses. Class meeting once a week Spring (3)

## GENERAL LANGUAGE

## LOWER DIVISION COURSE

## A Latin and Greek Word Derivation

L. P. Brown
most frequent elementary course in philology. A study of Latin and Greek roots of Fall (2)

## GEOGRAPHY

Lower division preparation for the liberal arts major in geography: Geography 1, 2,
and Geology 1A-1B. Recommended: A rear and Geology 1A-1B. Recommended: A reading knowledge of French or German.
Liberal arts major (major division): Twenty-four units of upper division work in geography or 18 units in geography and sio units in related subjects arranged in consultation with the chairman of the department.

## LOWER DIVISION COURSES

1 Introduction to Geography: Physical Elements
The Staff
The nature of maps, weathy: Physical Elements
forms and their associated soils, with elimates of the world; natural vegetation; land seas and their coasts. One sll-day fith reference to their climatic relationships; the Geography 10A-10B. This all-day field trip. Open to all students who have not taken Fall and Spring (8) This course is classified as a natural science.

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

## 3 Elementary Meteorology <br> An elementary study of ology

weather and influence human affairs atmosphere and changes in it which produce our instruments, and records. Aeronairs. Special attention given to local conditions, This course is classified as a Aeronautical meteorology stressed in the fall semester. Fall (3)

4 Map reading and Map Interpretation Post
Representation of geographic data by means of maps. Interpretation of projections, scales, symbols, land forms, and culture from topographic maps; measurements of caltural data on maps. Prerequisite: Geography 1.
Fall (2)
10A-10B Economic Geography
Beginning course in economic geography limited to students in commerce and prospective economics majors. Not open to students who have had Geography 1 and 2. This course may serve as prerequisite to upper division geography courses.
Fall and Spring (3-3) (Not offered in 1944-45)

## UPPER DIVISION COURSES

112 Geography of California
Storm
The physiographic regions of California and the cultural landscapes developed by the successive cultural groups. Prerequisite: Geography 1.
Spring (3) (Not offered in 1944-45)
116 Geography of Latin America
The natural regions of Latin America; their occupational condition and historical The natural regions of Latin Americ
evolution. Prerequisite: Geography 1. Spring (8)

117 Geography of Northern and Eastern Europe A study of the cultural development of the countries of northern and eastern Europe in relation to physical background and historical evolution. Prerequisite: Geography 1. Pall (3) (Not offered in 1944-45)
118 Geography of the Mediterranean Area
A study of the cultural devernern Europe, Western Asia, and North Africa in relation to physical background and resources. Prerequisite: Geography 1.
Spring (3)
torm
121 Geography of North America The natural regions of North America, their formation and economic and historical development. Prerequisite: Geography 1.
Pall (3)
124 Geography of Asia
Storm
The cultural regions of Asia, their physical environment, and historial development. Prerequisite : Geography 1.
Spring (3)
135 Geography of the San Diego Area Storm Directed individual urban and rural field work in the San Diego area; the mapping of a small area and urban and rural field work in thations. Prerequisites: Geography 1 and 2.
Pall (3) (Not offered in 1944-45)
Storm
$141^{\circ}$ Economic Geography Storm A survey of the raw materials of world trade; their production and distrib 1.
related to
166 Honors Course The Staff
To be arranged after consultation with the chairman of the department. (See page 15.)
Pall and Spring (Oredit to be arranged)
6- 81196

L40A-L40B Introduction to Geography
The Staff
An introductory descriptive course designed to acquaint students with the general features of the various regions of the world. Presents the climatic regions of the world with a description of what man has done with the resources of each. Develops a background for the interpretation of world problems and world happenings. One all-day field trip in L40A. Open only to students enrolled in a two-year curriculum. Year course (3-s)

## 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 3.A; Physics 1A-1B-10-1D or $2 A-2 B ; 3 A-3 B$. Students preparing for advanced work in Geology may substitute Engineering 21 for Mathematics SA. Geology 2A may be substituted for Geology 1.A in department prerequisite requirements provided the additional necessary unit of laboratory work is completed.

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

1A Physical
LOWER DIVISION COURSES throughposition, origin, and distribution of earth materials, and their modification our hour laboratory period weekly with related field study during the semester. (Not open to students who have had Geology 2A except for one unit upon the completion of the laboratory section.)
Fall (4)

## 1B Historical

Brooks
Theories of earth origin, and the evolutionary history of the earth as traced through rock and fossil records. Consideration of the Paleontologic Sequence. Three lecture 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 science majors or those already presenting one demonstration and discussion hour weekly.

## Fall (3)

2B Physiography
Brooks
A study of the land forms of the United States and their physiographic history a weekly illustre of universal geologic conditions. Two lectures and one discussion hour Spring (3) Prequisite: Geology 1A or 2A.
Spring (3)

## 21A-21B Mineralogy

Brooks
Study of the common minerals and rocks. Use of the blowpipe and simple chemical high school chemistry, uph sight determination. Prerequisite: Geology 1 A and Year course (s-s) (Offer or equivalents.
Year course (3-8) (Offered in 1944-45 and alternate years if demand is sufficient)
UPPER DIVISION COURSES
100 Structural Geology
Brooks
Faulting, folding, description of the structural and topographical features of the earth. American Continent and orogenic forces with practical illustrations from the Nortiscussions, and ocent and emphasis on California geologic conditions. Lectures, dis Fall (3) Coffered in 1944-45 trips. Prerequisite: Geology 1A-1B.
(9)

101 Geologic Problems

## Brooks

reading and Reconnaissance of adjacent areas with elementary mapping; or directed reading and group discussion of California Geology ; or selection and preparation of materials the museum collections
approval of instructor.
Fall and Spring (1-4)

## TWO-YEAR COURSE

L40 General Geology
An elementary course dealing with those processes of nature by which the surface an elementary course dealing with those processes A study of the natural history and occurrence of the common rocks and minerals.
Open only to students enrolled in a two-year curriculum.
Fall and Spring (3)

## GERMAN

## LOWER DIVISION COURSES

H. K. Walker

A-B Elementary Pronunciation, reading and grammar, with practice in simple conversa unless followed and description, both oral and written. Credit not given for German A un school should by German B. Students who have had one year of German have had two years of register for two units of work in German A. Its of work in German B.
German in high school should register for four units of work in German B.
Year course (5-5)
H. K. Walker

C-D Intermediate Review and Reading
H. K. Walker
ndard prose as basis for class work; collateral reading with written reports ; German conversation, with the texts dictation. Prerequisite: German B or two years of high school German, or equlent, ent S. Prerequisite: German or its equivalent, should enter German C.
Year course (3-3)

## Messner

SC-SD Scientific Reading
casional
Fall semester. Readings in scientific reader on chemistry, physics, etc.: oce. Spring written reports on scientific subjects read outside of class; sight readitten reports semester. Readings in special scientific or technical works; weekith a grade of $C$ or required; sight reading. Prerequisite: German SC-German German C, with a grade two years of high sehool German; German
of $C$, or three years of high school German.
Year course (3-3) (Not offered in 1944-45)

## HEALTH AND PHYSICAL EDUCATION

(See Physical Education)

## HEALTH EDUCATION

## LOWER DIVISION

C. E. Peterson

1 Health and Social Adjustment (Men)
C. E. Peterson
community hygiene. A study of social An informational course in personal and community hygrom the County Medical hygiene and the hygienic principles of living. Speakers from of this course. It is Association on subjects of vital interest enrich the ofsman year.
especially desirable that this course be taken in the freshman y.
Fall and Spring (2)
B. I. Stone

2 Health and Social Adjustment (Women)
An informational course, reviewing the principles underlying the improne prospective sonal health sonal health, and the solution of practical probiems fields serve to enrich the
homemakers. Lectures by specialists in the various fied
Required of all Lectures by specialists in the various fiel standing or the degree.
Required of all freshmen who are candidates for jun
Pall and Spring (2)

## 51 Safety Education

Prevention of accidents : practical application of first aid methods leading to American Red Cross First Aid Certificate. Formerly listed in bulletin as Physical Education 51.

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

61A Nutrition
Dustin
The purpose of this course is to consider health maintenance through food selection from the modern scientific viewpoint. Consideration is given to the fundamentals of an adequate diet from the basis of the known dietary essentials and of the disorders which result from the deprivation of these factors. Diets for special needs are also planned. Recommended for premedical, predental, prenursing, and sociology majors. Red Cross Nutrition Certificate is granted upon course completion.
Spring (2)
61B Nutrition-Laboratory
Dustin
A basic course in food preparation which includes the study of typical food selection and preparation methods which best conserve the essential food flavors and nutrients. Class meets once a week and is open only to students who have registered in Nutrition 61 A.
Spring (1)

## 90 Physiology of Reproduction

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

## UPPER DIVISION

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

L40A Nutrition

## TWO-YEAR COURSES

A course based on the study of how to make healthful food choices from the modern scientific viewpoint. Consideration is given to the meaning and indications of adequate nutrition and to food in its relationship to the maintenance of well-being. Red enrolled Fall (2)

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

## HISTORY

Lower division preparation for the liberal arts major in history: History $4 A-4 B$ or tory courses are reme 1A-1B, 71A-71B or Economics 1A-1B. Both hisshall enroll in' more thanended for students planning to major in history. No student shall enroll in more than one lover division history course during a semester.
Upper division requirements for the liberal arts major: At least twenty-four units in the department. A res in history, to be arranged in consultation with the chairman of history majors. A reading knowledge of at least one foreign language is expected of
(30) HISTORY

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 COUREES

Nasatir

## 4A-4B History of Modern Europe

Development of European society and institutions from about 1500 A.D. Year course (3-3)

## Nasatir

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

## UPPER DIVISION COURSES

## 11A-111B Ancient History

Seme Ancient History ith I-Social, economic, political and cultural developederal union and imperialism, Hellenism.
Semester II-Roman history to the beginning of the medieval period; discussions of Semester II-Roman history to the beginning of economic, social and religious developments in the republic and empire.
Year course (3-3) (Offered in 1945-46 and alternate yearis)
121A-121B Me dieval History General survey of Europal and cultural development between 500 and 1500 A.D., with special a totions which enlminated in the emergence of modern Europe
Year course (3-3) (Offered in 1944-45 and alternate years)
143 The French Revolution and Napoleonic Era
An intensive study of the revolutionary period in Europe from 1789 to 1815.
Pall (3)

## 144 Europe Since the World War

Developments in Europe from 1919 to the present.
Spring (3)
146A-146B Diplomatic History of Europe Since 1648
A course centering around the four major European treaties, their background, draftcurse centering around the four major Euties of Westphalia, Utrecht and Vienna. Second semester, the Treaty of Versailles.
Year course (3-3) (Not offered in 1944-45)
147 History of Modern France
Intensive survey of and social development of France under the Third Republic, 1870 to the political International and colonial problems of modern France will also be considered.
Pall (3) (Not offered in 1944-45)
148 History of Modern Germany Politiend 1870 , the Empire and Political, social and economic development of Germany after 18lishment of the Third Republie. German post-war problems, imperialism, and the estable
Reich will receive special attention.
Spring (3) (Not offered in 1944-45)

## 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-s)
161 South America Since Independence
Nasatir
The republics of South America. Attention directed to the development of nationality in South America, the struggles for political stability, the exploitation of resources, diplomatic and commercial relations with the United States, and other international problems of South America. Survey of present-day conditions, political, economic, and social.
Spring (8)
163 Mexico and the Caribbean Countries
Nasatir
Same plan in general as outlined in History 161. Special attention to the relations of the United States with these countries, and to the recent developments in Mexico. Fall (3)

171A-171B The Rise of the American Nation
Leonard
Semester I. English colonization in North America and the development of colonial institutions and politics. Semester II. The revolutionary movement and the Revolutionary War; the establishment of the government under the Constitution to the close of the War of 1812.
Year course (3-3) (Offered in 1944-45 and alternate years)
173A-173B The Expansion of the United States
Leonard
The rise of Jacksonian Democracy ; territorial expansion and the Mexican War; the slavery controversy; the Civil War, and reconstruction; the growth and progress of the United States to the World War.
Year course (3-3) (Offered in 1945-46 and alternate years)
199 Special Courses for Advanced Students
Leonard
Required of all students with a history major in the liberal arts curriculum and to be of the instructor. of the instructor.
Spring (2)
A-B Elementary
ITALIAN
Phillips
Intensive study of Italian grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation ; reading of works by contemporary writers. Credit not given for Italian A unless followed by Italian B. Students who have had one year of Italian in high school should register for Italian A. Those having two years in high school should register for Italian B.
Year course (5-5) (Not offered in 1944-45)

## JOURNALISM

Courses in journalism will not be given during the school year 1944-45. The when the dormal program of the college, and will be taught For the
For the curriculum in journalism see page 47.
For the profession of journalism introductor
political science, economics, sournalism introductory work in the fields of literature, history, political science, economics, social economics, the arts, eto., 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 founaation in correct speaking and writing of English has been laid. Practy press is emphasized. 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.
Pall and Spring (1-1)

## 51A-51B News Gathering and Reporting

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

## L53A-L53B Applied Journalism

feature stories and in other editorial Practice and projects in reporting news and feature stories and in other editorial work on The Aztec, El Palenque, Del Sudoeste. Students not enrolled in slaare required to take L53C-L53D.
Fall and Spring ( 1 to $3 ; 1$ to 3 )

## L53C-L53D Newswriting Problems

Techniqu Newswriting Problems emphasis upon work of class members on The Aztec, El Palenque, Del Sudoeste.

UPPER DIVISION COURSES

## 151A-151B Newspaper Editing

Study and Newspaper Editing tudy and practice in the editorial, headine writaper and magazine work. Required fall
Fall and Spring (1-1)
L153A-L153B Advanced Journalism Practice $\qquad$ pronsonel in editorial projects Editing of student publications and direction of personn51A-151B must be taken Prerequisite: $51 \mathrm{~A}-51 \mathrm{~B}$ (may be waived by instructor) concurrently with this course.
Fall and Spring ( 1 to $3 ; 1$ to 3 )
Nore, -Not more than six publications.
153C. 153D Newspaper Practices Work on commu Wrk on community publications, including county newspapers, the instructor.
Fall and Spring (2)
199 Special Course for Advanced Students
and to satisfy the instructor. Spring (2)
C.D Intermediate econd semester: Cicero
Readings from Latin writers. First semester: Caesar. Seconduivalent.
and Ovid from Latin writers. First semester: Catin or the equivalent.
Year course (3-3) (Not offered in 1944-45)

## L10 Use of the Library

J. P. Stone

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

## Fall and Spring (2)

## MATHEMATICS

Lover division preparation for the liberal arts major in mathematics: Mathematics $3 A, 3 B, 4 A$, and 8 with an average grade of $C$ or better. Two or more of the following German A-B, Physics 1ronomy 1, Economios 1A-1B, 2, Engineering 21, French A-B, German A-B, Physics 1A-1B or 2A-2B, Surveying 1A.
Liberal arts major (upper division): Twenty-four units including at least eighteen in upper division mathematics, the others being selected from Astronomy 107, Chemistry 111A-111B, 144, Physics 105A-105B, 112 and other approved courses. The major should be arranged in consultation with the chairman of the department and completed with a grade of $C$ or better.

LOWER DIVISION COURSES
LA-LB Basic Mathematics
Livingston
This is a wartime emergency course, primarily for those who have not had the high school course in plane geometry. It stresses arithmetic, informal geometry, simple present and very elementary numerical trigonometry, with applications. For the present it meets the minimum lower division requirement in elementary algebra and geometry. There is no prerequisite beyond junior high school mathematics. The class meets three times per week.
Year Course (2-2)

## C Intermediate Algebra

Gleason
The course begins with an extensive review of elementary algebra. Topics covered arithmetic and geometric progressions, binomions, ratio and proportion, variation, equivalent to the second year-course in high school ansion and logarithms. It is credit for high school algebra but without a recomool algebra. Students who have of college credit if they carry the course with gradending grade may earn two units Elementary Algebra and Geometry or Math grade of $C$ or better. Prerequisite: Fall and Spring (4) Geometry or Mathematics LAA-LB.

## D Trigonometry

Roughly equivalent to the high school course in plane trigonometry but with more culus. Num is often given to those aspects needed in analytic geometry and calA brief introduction to the science and industry. Students who have credit the solution of right spherical trigonometry is included. mending grade may earn two phitsigonometry in high school but without a recomgrade of C or better. Prerequisites of college credit if they carry the course with at least one semester. Prerequisites : Intermediate algebra with recommending grade in Fall and Spring (8)

## E Solid Geometry

A course in
faces and volumes for solid geometry with much attention to the calculation of surrequisite: Intermediate simpler solids and for certain others used in industry. Prerequisite : Intermediate algebra, with recommended grade for at least one semester.

## S Slide Rule

Theory and use of the slide rule. Practice in performing the fundamental operations
Intermediate. Some attention is given to more involved the fundamental operations Intermediate algebra and either trigonometry or solid geometry. The class meets
twice a week.
Fall and Spring (1)

## 1 Introduction to Analysis

A peneral hiological course in calculus and have for the longer courses in analytic geometry and calculus. Watheulus. Not available to studen who this meets the "Additional Year Course" requirement C taken in high school Prequisites: Elementary algebra and geometry, and intermediate algebra, with satisfactory grades.

## Fall and Spring (3)

3A-3B Analytic Geometry and Calculus Walling Analytic geometry, differential calculus, and an introduction to integral calculus, Credit is allowed for 3A taken alone if desired. Prerequisites: Blementary grades. and, geometry, intermediate algebra, and trigonometry, with satisfactory grades Students whose preparation is deficient either in quality or quantity should enroll in the appropriate remedial course.
Year course (3-3)
Livingston
4A-4B Solid Analytic Geometry and Calculus Integration, applications of integration, infinite series; solid analytic geometry, desired differentiation, and multiple integrals. Credit is allowed for 4 A ald; also college Prerequisites: Mathematics $3 \mathrm{~A}-3 \mathrm{~B}$. Solid geometry is recommended; also colleg algebra, before 4B.
Year course (3-3)
Gleason
8 College Algebra
Complex numbers, determinants, and other selected topics. Prerequisites: Trigorometry and either Mathematics 1 or 3 A .
Spring (3)
15 Spherical Trigonometry and Navigation ms in naviEssentials of spherical trigonometry with applications to certain problems in the gation, particularly to those of middle latitude sailing, great cmediate algebra, plane determination of latitude and longitude. Prerequisites: Intermed
trigonometry, and some knowledge of the geometry of the sphere.
Fall and Spring (3)

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TPPER DIVISION COURSES
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102 Selected Topics in Algebra
Topics supplementary to those considered in Mathematics 8 and 111. Prerequisites: Hathematics $3 \mathrm{~A}-3 \mathrm{~B}$ and 8 .
(Offered as needed)
Gleason
104 History of Mathematios $\quad$ Prerequisite: Mathematics
History of Mathematics
A.3B of mathematies down to early modern times. Presequise: Mat Pall (3) or 3 A and 1.
Fall (3) (Offered in 1945-46 and alternate years)
105 College Geometry
An extension of the high school course in plane geometry, dealing largely with ere Preand circles. Several new procedures, inclu requisite: Mathematics $3 \mathrm{~A}-3 \mathrm{~B}$, or 3 A and 1 .
Pall (3) (Offered in 1944-45 and alternate years)

## Livingston

106 Projective Geometry
Concurrence of Geometry by projections ; lines, collinearity of points and oth, hyperbolas and parabolas by means
projections; construction and study of elipses, 3 B or 3 A and 1.
Pall (3) (Offered in 1945-46 and alternate years)

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

## 117 Intermediate Calculus

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

## 118 Advanced Calculus

Livingston
Selected topics in advanced calculus, exclusive of differential equations. Prerequisite: Mathematics $4 \mathrm{~A}-4 \mathrm{~B}$, or 4 A with 4 B taken concurrently.
Spring (3) (Offered in 1944-45 and in alternate years)
119 Differential Equations
Ordinary differential equations of first and second order, with applications. Prerequisite: Mathematics 4A-4B (4B concurrently if desired).
Spring (2) (Offered in 1945-46 and alternate years)

## 124 Vector Analysis

Addition, subtraction, multiplication, differentiation, and integration of vectors, with applications in geometry, mechanics, and mathematical physies. Some attention is given to divergence, gradient, and curl. Prerequisites: Mathematics 4 A ( 4 A con-
Spring (3) (Offered occasionally)

## 140 Probability and Statistics

Gleason
Statistical theory and method from the mathematical standpoint; applications in
social and natural seien social and natural science. Prerequisites: Mathematics 4 A and 8 , or $4 \mathrm{~A}-4 \mathrm{~B}$
Fall (3) (Offered in 1944-45 and alternate years)

## 199 Special Study

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

## TWO-YEAR COURSE

## L40 Computational Mathematics

Basic work in
nometry. The chief students who already have credit in elemen on computation. Not open for credit to or in college. Open only to students elementary geometry, whether taken in high school Fall and Spring (3)

## L20 Consumer Problems

Growing importance of
United States: consumption constion as a field for study; consumer incomes in the practical problems of buying food, clothing cycles; bases of consumer choice-making; family budgeting; a survey of the clothing, shelter, transportation, insurance, etc.; market structure and functions the methods by which products reach the consumer; Fall (3) (Not offered in 1944-45)

L24 Principles of Merchandising
Prob the probs of store managers and merchandising stady of retail stores, emphasizing the problems orsol, sales promotion, buying and secutives; store location, organization, personnel, salrol methods. Changing conhadling of merchandise, inventory, turnover, and conder present conditions.
iftions in retailing, problems of profi
Spring (3) (Not offered in 1944-45)
225 Principles of Salesmanship
20 Principles of Saiesmanship Theoretical and psychological backgrounds of salesmanship, newer est, desire, closing ; de selling of ideas and services; steps in a sale ; attention, inter in salesmanship. the development of clienteles and
Pall (3) (Not offered in 1944-45)

MUSIC
Candidates for a teaching credential in music should refer to the statement "Admission Teacher for a teaching creden" on page 21 and to the other degree requirements on lat page and the curriculum for the A.B. Degree with a Special Secondary Credential in Music is on page 31.
loteer division preparation for the liberal arts major in music: Music 1B-1C-1D $4-4 B$; 4 units of $A$ pplied Music (study of voice or orchestral instrument); Aesthetic 1A-1B.

Likeral arts major (upper division): twenty-four upper division units of Applied Music; iaclude Music 105A-105B: 106A: 107A: 119: 120; 121; 4 un (Music 111, 112, 113, lesthetics 102A-102B ; and \& units of music activit 115, or 130).
At least a $C$ average in upper division music courses is necessary. It is recommended that students in meeting degree requiremen; French A-B; German electives, select from the following courses: Engli
$A-B ;$ History $4 A-4 B ; 146 A-B$; Physics 2A-2B.

## LOWER DIVISION COURSES

L. D. Smith

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

1B Musicianship-Music Reading and Ear Training Basic course for
Tonal and rhythmic dictation ; rhythmic writing; sight singing, Basicianship Book I. Lonal and rhythmic dictation ; rhythmic writing, Fumentals of Musions the departPrerequid minors. Text-Smith and Krone: Fundants not able to pass the deredit Prerequisite: Music 1A, or the equivalent. Students nic will take 1A without in preparationce examination in
Pall andion for this course.
Pall and Spring (2)
L. D. Smith

1C.1D Music Reading and Ear Training L. D. Smith Tonal work incianship-Advanced Music Readingant triads and seventh chords; interval work in minor keys; modal scales; dissonan elementary forms; rhythmic melodic feeling in all chords; rhythmic progression ance 1B.
Pelodic and harmonic dictation.
Pear course (2-2)
L2A String Instruments
Required of all music majors
Deginner's class in violin, viola, 'cello and string bass. Required of alion is the major
orking for a Special Secondary eredential unless this orchestral
or minor field.
Fall and Spring (1)

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

## 4A-4B Elementary Harmony

## Springston

Scale construction, intervals, by-tones and diatonic harmonies. Transposition and Prerequisite : Music 1A-1B simpler forms. Text-Alchin : Applied Harmony Vol. I. Prerequisite : Music 1A-1B, or the equivalent, and at least one year of piano study.
Year course (3-3)
L6A Brass Instruments
Beginner's class in trumpet, French horn, baritone, trombone and tuba. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.
Fall and Spring (1)
L7A Music Materials for the Elementary School
L. D. Smith

Study of the song material in the state music texts and in the supplementary texts. Appreciation materials applicable to the elementary school. Required course for Fall and elementary credential students. Prerequisite: Music 1A.
Fall and Spring (3)
11A-B-C-D Women's Glee Club-Treble Clef
L. D. Smith

Entrance upon examination.
Fall and Spring ( $\frac{1}{2}-\frac{1}{2}$ )
12A-B-C-D Men's Glee Club
Springston
Entrance upon examination.
Fall and Spring ( $\frac{1}{2}-\frac{1}{2}$ )
13A-B-C-D Orchestra
Leib
Permission of the conductor required for membership
Fall and Spring (1-1)

## 5A-B-C-D A Cappella Choir

Entrance upon examination.
Fall and Spring ( $\frac{1}{2}-\frac{1}{2}$ ) (Not offered 1944-45)
L16A-L16B-L16C-L16D Individual Study of an Orchestral Instrument
Fall and Spring (1-1)
L17A-L17B-L17C-L17D Individual Study of Voice
Fall and Spring (1-1)
*L18A-L18B-L18C-L18D Individual Study of Piano or Organ
Prerequisite: The ability to play artistically hymns and folk songs of the type found in the Golden Book of Favorite Songs.
Fall and Spring (1-1)
20A-B-C-D Chorus
Fall and Spring anterested 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 ( $\left.\frac{1}{2}-\frac{1}{2}\right)$ (Not offered 1944-45)
private instructors. Senditions under which credit may be given for music study under

## 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) (Not offered 1944-45)

## L28A-L28B Piano

## Springston

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

## 29A-B Class Voice

breath control
A class for beginners in the vocal field taking up the problems of breath control, tone placement, articulation and enunciation. Frequent performance before clas tone piacement, articula
required. Limited to 15.
Year course (1-1) (Not offered 1944-45)

## 30A-B Chamber Music

String and woodwind ensembles. The consent of the instructor necessary for admis sion to class.
Year course (1-1)

> UPPER DIVISION COURSES
L. D. Smith

## 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 empn composers. larger works. Considerable attention is given to the works of modern comps are Many symphonic works required to 1A or 1B.
Year course (2-2)
Springston
105A-105B Advanced Harmony and Composition harmonies: continuation of 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 (8-s)

## Springston

106 A Counterpoint
tice in writing in such forms.
Study of the five species of counterpoint with much practice in writing : Music 4A-4B. Application of contrapuntal style to modern compositio Pall (2)

Springston
107A Form and Analysis
tructure, har-
Aural and visual analysis of music forms through a cons
anic content, and style. Prerequisite : Music 105A-105B.
Spring (2)
L. D. Smith

111A-B-C-D Women's Glee Club-Treble Clef
Pall and Spon examination. all and Spring

112A-B-C-D Men's Glee Club
Entrance by examination.
a wnits in glee club may be counted toward the A.B. degree)

## 113A-B-C-D Orchestra

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

Entrance by examination.
Fall and Spring $\left(\frac{1}{2}-\frac{1}{2}\right)$ (A maximum of 2 units in A Cappella choir may be counted toward the A.B. degree) (Not offered 1944-45)
*L116A-L116B-L116C-L116D Advanced Individual Study of an Orchestral Instrument
Fall and Spring (1-1)
*L117A-L117B-L117C-L117D Advanced Individual Study of Voice
Fall and Spring (1-1)
*L118A-L118B-L118C-L118D Advanced Individual Study of Piano or Organ Fall and Spring (1-1)
119A Instrumental Conducting
Conducting and reading of orchestral scores.
Fall and Spring (1)
120A Vocal Conducting
The theory of vocal conducting together with practical experience gained from direct ing the college chorus. Prerequisite: Music majors with senior standing.
Fall and Spring (1)
121A Instrumentation
Arranging of music for full orchestra. Selected works of pupils to be performed by standard orchestras
Full and Spring (2)

## 126A-B-C-D Band

Fermission of the conductor required for membership.
Fall and Spring $\left(\frac{1}{2}-\frac{1}{2}\right)$ (A maximum of 4 units in band may be counted toward the A.B. degree) (Not offered 194ヶ-45)

130A-130B Chamber Music
String quintet and woodwind ensembles only. Permission of the instructor necessary for class membership.
Year course (1-1)
CONDITIONS UNDER WHICH CREDIT MAY BE GIVEN FOR MUSIC STUDY UNDER PRIVATE INSTRUCTORS
Oredit 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
2. The instructor giving such private work must be approved by the Music Department. All private work and the names of all such teachers must be registered in the office of the music department chairman at the beginning of the semester.
the music.department femester private study, a placement examination conducted by of the student at the beginning of the beginning of the semester will show the status
4. Evidence that the standards of the Music Department have been met will be shown
by an examination conducted by the music department by an examination conducted by the music department faculty at the end of the semester. private instructors.

## PHILOSOPHY

## LOWER DIVISION COURSES

Philosophy 3A, 3B The History of Thought
Steinmetz
A study of the basic ideas of Western Civilization in their historical development. The making of the modern mind as revealed in the development of philosophy and in the relations between philosophy and science, art and religion. The history of ideas against the social and political backgrounds from which they came. Prerequisite: Sophomore standing, or permission of instructor.
Fall, Spring (3, 3)
5A Introduction to Philosophy
The recurring problems of philosophy and the making of the modern mind. Pre requisite: Sophomore standing, or permission of instructor.
Fall (3)
5B Knowledge and Society
Steinmetz
Scientific method and the persistent topics of philosophy in their bearing upon the social problems of the day. Prerequisite: Philosophy 5A, save under unusual circum stances.
Spring (3)
8 Social Philosophies Steinmetz
The story of man's speculation regarding his "right" organization, the assumptions, analogies, and economics determining his temporary conclusions: James I. Hobbes, Rousseau, Locke, Jefferson, Kropotkin, Mill, Marx, Mussolini, Dewey, Pius XI, Hoover, Roosevelt, etc.
Spring (3) (1944-45 and alternate years)
UPPER DIVISION COURSES

## 120 Reflective Thinking (Logic)

Steinmetz
Analysis of fallacies, and the logic of argument and proof; also examination of reflec Analysis of fallacies, and the logic of argument and review of some psychological descriptive procedures in various fieds of Psychology 1A and Philosophy 5A.
Fall (3)

## Steinmetz

130 Conduct (Ethics) The meaning of morality ; motives and sources of belief, aspiration, ideal ;psychological and sociological factors; representative ethical systems; relation of ethes or axiological studies.
Spring (3)

## PHYSICAL EDUCATION

## Men's Department

Candidates for a teaching credential in physical education should refer to the statemen Candidates for a teaching credention curriculum in physical education see page 33.

## WER DIVISION COURSE

A A two-hour activity course each semester is requen entering and the work is fitted to A medical examination is given each student whe to fit the special needs of the indihis needs. Individual Adapted Activter of the required two years is planned to give vidual student are included. To participate in those sports which have carry-over value each student an opportunity to partoilding exercises and endurance training. Oppor into after life in addition to body building exercises competitive sports program.
tunity is given all students to take paren in addition to required lower division courses. A Intercollegiate sports may be the in semester may be counted toward the A.B. degree.

## 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 a portion of the class hour.

## Sports

L2A-L2B-L2C-L2D Golf Spring ( $\frac{1}{2}$ )
L3A-L3B-L3C-L3D Track Spring ( $\frac{1}{2}$ )
L4A-L4B-L4C-L4D Baseball Spring ( $\frac{1}{2}$ )
L5A-L5B-L5C-L5D Basketball Spring ( $\frac{1}{2}$ )
L6A-L6B-L6C-L6D Tennis Spring (1)
L7A-L7B-L7C-L7D Boxing Spring ( $\frac{1}{2}$ )
L8A-L8B-L8C-L8D Wrestling Spring ( $\frac{1}{2}$ )
L9A-L9B-L9C-L9D Cross Country Fall (1)
L10A-L10B-L10C-L10D Swimming Spring ( $\frac{1}{2}$ )
L11A-L11B-L11C-L11D Fencing ( $\frac{1}{2}$ )
L13A-L13B-L13C-L13D American football Fall ( $\frac{1}{2}$ )
L13X-L13Y-L13Z Spring football Spring (古)
L14A-L14B-L14C-L14D Gymnastics ( $\frac{1}{2}$ )
L15A-L15B-L15C-L15D Badminton Spring ( $\frac{1}{2}$ )
Any of above sports will be offered only if demand is sufficient.
The following courses fulfill degree requirements for physical education majors and meet State requirements for teaching credentials in phorsical education majors and

## 30 Emergencies

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

## Fall (2)

L53 Physical Education in the Elementary School
Two lectures of the State program in physical education forms the basis of the course. for 1D. -
Required of all candidates for the elementary school credential and the special credential in physical education.
Fall and Spring (21 $\frac{1}{2}$ )
L62A Gymnastic Activities
C. E. Peterson

Theoretical and practical wor
ratus. Emphasis on progression marching, free exercises, and light and heavy appamost explanatory terminology. Fall (2) (Offered in 1915-16

## L62B Gymnastic Activities

Acquisition of proficiency in the performance of a great group of gymnastic stunts
always popular in the gymnasium and on the plays always popular in the gymnasium and on the playground. Wroup of gymnastic stunts building given chity type rather than the formal. Tumbling, stunts, the recreational Spring (2) (Offered in 1945-46 and alternate years)

172 Principles of Physical Education
Cultivation of a favorable attitude for a professional study of physical education. Ideals and aims of physical education and the relation of physical education to school and society stressed.
Fall (2)
UPPER DIVISION COURSES
L154 Organization and Administration of Secondary Physical Education
Study of general and specific problems that confront physical education departments in junior and senior high schools and in colleges. Prerequisite: Physical Education 172. Spring (3) (Offered in 1945-46)
L155 Applied Anatomy and Kinesiology
A scientific analysis of the structure, function and relationship of the organs, bony cavities, bones and joints of the skeletal, muscular, nervous and circulatory systems. In addition, the student will apply the results of the analysis in the selection of activities in relation to mechanical strength and durability as influenced by anatomical factors. Prerequisite: Zoology 20, or 108.
Spring (3) (Offered in 1945-46 and alternate years)
L156A Sports Methods
Different theories and methods of teaching the more highly organized sports : basketball and baseball.
Fall (2) (Offered in 1944-45 and alternate years)
L156B Sports Methods
C. E. Peterson

Methods of teaching those sports most adaptable to the intramural and recreational programs: golf, handball, soccer, speedball, volley ball, badminton, archery, tennis, swimming, track, etc.
Spring (2) (Offered in 1944-45 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 1945-46 and alternate years)
L169A Technique of Teaching Activities
Directed leadership in activities. A course preliminary to practice teaching in which students are given opportunity to develop teaching techniques in an orderly, detailed, directed, and supervised experience. Requirements include the handling of classes, construction of tests, lesson plans and preparation of a syllabus. One hour of ecture, and two hours of laboratory per unit. Recommend.
year. Prerequisite: Admission to teacher training.
year. P
Fall (2)
L169B Technique of Teaching Activities
Continuation of directed leadership in activities as in L169A. Individual study will include conferences with instructor regarding class program, compilation of working bibliography, planned reading, school visitation, and preparation for practice teaching. Conferences and two hours of laboratory required. Prerequisite: Physical Education L169A.
Spring (1)
Shafer
L170 Recreational Leadership
Fundamentals of rection in club and camp Fundamentals of recreational leadership develities, the study of school recreational needs and facilities, and of civic recreation. activities, the study of school recreational needs Recommended to students interested in Open to all up
social service.
Spring (2) (Offered in 1944-45 and alternate years)
7 -31196

## L180 Theory of Coaching Football

Methods of coaching football．Details of teaching individual fundamentals，offensive lecture lecture and three hours of laboratory
Spring（2）（Not offered in 1944－45）
L190 Individual Program Adaptation
An introductory course dealing with the analysis and evaluation of aims，techniques， emphasis will in the preventive and corrective physical education program．Specia emphasis will be given to such problems as survey of the situation，recognition of follow－up，teacher limitations assigning of students，instructional programs，motivation， 20，and senior standing． 20 ，and senior standing．
Fall（3）（Not offered in 1944－45）

## WOMEN＇S DEPARTMENT

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

## LOWER DIVISION COURSES

Two hours of directed physical activity are required throughout the freshman and sophomore years．Freshman students may choose courses from the following，L1A L1B，L1C．Sophomore students may choose from all activity courses offered．
1A Fundamental Skills
Practice in efficient fundamental body movements
Fall and Spring（⿳亠丷厂犬）
1B Folk Dancing
Fall and Spring（ $\frac{1}{2}$ ）
Schwob

Schwob
1C Team Sports
（All three are required of all women candidates for the special credential in physical
education．）
Fall and Spring（ $\frac{1}{2}$ ）
Sophomores may elect from the following：
Physical Education Staff
L2A－L2B Folk Dancing
Fall and Spring（ $\frac{1}{2}$ ）
L3A－L3B－L3C－L3D Modern Dance
（Not offered in 1944－45）
L4A－L4B Social Dancing－for men and women
（Not offered in
（Not offered in 1944－45）
L5A－L5B Archery
Fall and Spring（ $\frac{1}{2}$ ）
L6A－L6B Badminton
Fall and Spring（ $\frac{1}{2}$ ）
L7A－L7B Golf
Fall and Spring $\left(\frac{1}{2}\right)$
L11A－L11B Tennis
Fall and Spring（ $\frac{1}{2}$ ）
L12A－12B Advanced Modern Dance．Laboratory experiments in advanced cho－ regraphy and percussion accompaniment．Faboratory experiments in advanced cho－ Fall and women， 10 for men．

$$
\begin{aligned}
& \text { ring (1-1) (Not offered in 1944-45) } \\
& \text { Any of the above anti...s. }
\end{aligned}
$$

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

L53 Physical Education in the Elementary School Schwob
The content of the State program in physical education forms the basis of the course． Two lectures，two one－hour laboratory periods per week．Required of all candidates for the elementary school credential and the special credential in physical education in the sophomore year．Junior college transferees only may take this course in their junior year．
Spring（2 $\frac{1}{2}$ ）

## Sports

1．The individual activities，tennis，golf，archery，badminton and dancing are offered through the year．Candidates for the special credential in physical education select one as a major activity and two others as minors．Skills in the activities thus selecter must be maintained as prerequisite to the senior course，Physical Education L185． （See page 100．）
2．The Women＇s Athletic Association sponsors the intramural sports program．Under its direction competition in dual and group games is promoted throughout the year． Open to all college women．

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

153 Principles and Administration of Secondary Physical Education Schwob A study of the significant influences shaping the trend of physical education，past and present．The philosophy and principles of physical education and school situation． eneral education．Administrative problems applied to the secondary school situation． Fall（3）（Offered in 1944－45 and alternate years）

## L155 Applied Anatomy and Kinesiology

A scientific analysis of the structure，function and relationship of the organs，bony cavities，bones and joints of the skeletal，muscular，nervous and circulatory systivi－ In addition the student will apply the results of the analy infuenced by anatomical ties in relation to mechanical strength and durability as inflen factors．Prerequisite：Zoology 20 or 8 ．
Spring（3）（Offered in 19，5－46 and alternate years）
L157A－L157B Sports Methods
Practice for skill Practice for skill，study of rules，and of coaching methods．Prerequisite：A bockey experience in at least four
Year course（2－2）
Schwob
L160 Principles of Teaching Gymnastics Gymnastic materials and methods followed nastics and use of apparatus．
Fall（2）（Offered in 1944－45 and alternate years）
161 Folk Dancing
tumes and
Practice in folk and clog dancing．Methods of presentation，study of costumes men eustoms related to the dance．Notebooks required．
and women．
Spring（2）（Not offered in 1944－45）Open to men and women
L164A－L164B Methods in Modern Dance
and percussion accompaniment．
Laboratory experiments in advanced choregraphy and percussion achorion teaching Historical survey and practical experience in production techen and women．Pre－ methods．Two activity periods and one lecture per wee
requisites same as for L12A．
Year course（2－2）（Not offered in 1944－45）

L169 Technique of Teaching Activities

## 170. Recreational Leadership

Fundamentals of recreational leadership developed by instruction in club and camp activities, the study of school recreational needs and facilities, and of civic recreation. Open to all upper division men and women. Recommended to students interested in the recreational aspects of social service.
Spring (2) (Offered in 1944-45 and alternate years)
L177 Individual Program Adaptations
Schwob
Adjustments of the physical education program to the physical needs and capacitie of individuals : problems concerning protective and preventive measures which are not highly specialized corrective phases.
Spring (2) (Offered in 1944-45 and alternate years)

## L185 Technique of Individual Sports

Shafer
A course summarizing rules, teaching methods, and individual playing ability. A required senior course. Can not be taken until all requirements regarding sports and games have been fulfilled. (See page 99.) Fall (1)

## PHYSICAL SCIENCES

The courses offered in the Physical Sciences are listed below. See pages listed after Astronomy, for a more complete description of the offering under that designation page 100; and Physics, page 101 . page 100 ; and Physics, page 101.

## PHYSICAL SCIENCE

Lower division preparation for the liberal arts major in physical science and for the work in at loast: Fulfilment of the department requirements for upper division physics. Recommend of the following sciences: Astronomy, chemistry, geology, and .
upper division work (upper division) in physical science, required: Twenty-four units of physics, with a minimum of or more of the physical.sciences: Chemistry, geology, and a minimum of six units in each of two of these sciences.

## LOWER DIVISION COURSE

1A Introduction to Physical Science
Watson
will nature and den materials chosen from topies in astronomy and physics to show the students who have bad of the scientific method and man's and physics Not open to with or without plans high school or college physics and use of energy. Not open tren Spring (3)

1B Introduction to Physical Science
Watson
A continuation of Physical Science 1A.
en from
geology and chemistry to show the 1A. Emphasis will be upon units chosen from in the modern world. Not open to origins of natural materials and their use by man istry and geology. May be taken to students who have had high school or college chemSpring (3) (Not offered in 1944-45) or without credit in Physical Science 1A.
10 Elementary Photography
This course seeks to praphy
the theory of photography ide an elementary knowledge of dark room techniques and and one three-hour laboratincluding printing, enlarging, and dark room techniques ans Fall and Spring (3)

## TWO-YEAR COURSE

L40 Man and His Physical World

## Watson

A brief survey of the nature of the scientific method and of selected topics in physical science. Materials will be chosen from physics, chemistry, astronomy, and geology in
order to give some background for an understanding of the relations of physical science order to give some background for an understanding of the relations of physical science
to modern life. Not open to students who have had both high school or college physics and chemistry or either of these subjects together with either astronomy or geology. Open only to students enrolled in a two-year curriculum. Pall (3)

## PHYSICS

Lower division preparation for the liberal arts major in physios and for the junior certificate: Physics 1A-1B-1C-1D; Chemistry 1A-1B; Mathematics $3 A-3 B$ and $4 A-4 B$, or their equivalents. Recommended: A reading linowledge of French and German. maximum of 12 units of lower division physics may be applied toward the degree.
Liberal arts major (upper division) in physics, required: Twenty-four units of upper division work in physics inchuding Physics 105A-105B and 110A-110B. Sio of the twenty-four units may be elected in related subjects and deviations from these requirements may be made on consultation with the chairman of the department.

## LOWER DIVISION COURSES

1A-1B Mechanics and Heat
Mechanics, properties of hatter, and heat. A development of the fundamental ideas which underlie the subject of physics, and the application of them in the discussion of practical problems. Lectures, text assignments, problem sets, and experimental laboratory work. Two lectures, and one laboratory period each week. Prerequisites : High school physics or chemistry, and trigonometry. Students deficient in any part of this requirement may enroll only with the permission of the instructor.
Year course (3-3)
1C-1D Electricity, Magnetism, Sound, and Light
A continuation of Physies 1A-1B for students in the sophomore year. Two lectures and one laboratory period each week.
Year course (3-8)
2A-2B General Baird
Properties of matter, mechanics, heat, sound, light, electricity, and magnetism. A nonengineering course. Lectures, dem
Two years of high school mathematics.
Year course (3-s)
3A-3B Physical Measurements Laboratory work in mechanics, properties of matter, heat, sound
magnetism. Usually taken in conjunction with Physics 2A-2B.
Year course (1-1)

## UPPER DIVISION COURSES

## *105A-105B Analytical Mechanics

of statics, kinematics and dynamics of particles
Treatment of fundamental principles of statics, kinematics and aynking knowledge of Phes 1A-1B or 2A-2B and a mor calculus.
Year course (3-3) (Offered in 1944-45 and alternate years)
Baird
*106 Optics A review A review of reflection, refraction and dispersion, with applications to physical nature of light: ments, followed by a survey of phenomena indicative of the physical nature interference, diffraction, polarization, and spectral radiation.
units in physics.
Pall (3) (Offered in 1944-45 and alternate years)

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

## 107A-107B Electrical Measurements

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

## *108 Modern Physics

An introduction to physical investigations of the ture and quantum theory in the light of high-vacuum phenomena, series in strucspectra, natural and induced radioactivity, and allied subjects. Prerequisite : Eight spectra, natural
units in physics.
Spring (3) (Offered in 1944-45 and alternate years)
108L Modern Physics Laboratory
Laboratory, to accompany Physics 108
Laboratory, to a
ternate years)
Elements of the
netism, and of steady and varying currents. Stectrostatics, of magnetostatics and magthe course with 1 unit of laborg currents. Students are encouraged to accompany and Mathematics $3 \mathrm{~A}-3 \mathrm{~B}$. Fall (3) (Offered in 1919
ate years)
110 B Principles of Electromagnetism and Electronics
illustrated with study and an extension of the material surveyed in Physics 110A the instructor. practical applications. Prerequisites: Physics 110A and consent of Spring (3) 10
(0)

## Thermal

laws of thermerties of matter. An introduction to the kinetic theory of gases and the knowledge of calculus. Prerequisites: Eight units in physics and a working nnowledge of calculus.
Spring (3) (Not offered in 1944-45)

## 12L Advanced Heat Laboratory

Laboratory work in thermal expansi
and other related topics in advancesion, specific heat, heat of combustion, radiation Spring (1) (Not offered in 1944-45)
113L Pyrometry Laboratory
Laboratory work in the caliby
Prequisite: Eight units in physics use of various temperature measuring devices pring (1) (Not offered in 1011-45)

## 4f-45)

A study of Waves and Acoustic
reception of sound musical instruments. Architectural acoustics, speech prdent transurical and Fall (3) (Not offered in 1944 : Eight units in physics,

114L Advanced Sound Laboratory
in various mork in the problems of wave motion, standing waves, velocity of sound Physics 114. Fall
Fall (1) (Not offered in 1944-45)

[^8]
## 115L Applied Acoustical Measurements

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

## 199 Special Study

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

## PHYSIOLOGY

LOWER DIVISION COURSES
A Human Physiology
A lecture course considering the functions of the human body. Prerequisites: lecture course considering the functions of the human or zoology. Three hours of ecture per week. Credit reduced to 2 units, for students having credit for Zoology 20. Spring (3)
1C Human Physiology
Astudy of the human functions through laboratory experiments and demonstrations, Prerequisites: Physiology 1A completed or in progress. Six hours of laboratory per week.
Spring (2)

## POLITICAL SCIENCE

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

LOWER DIVISION COURSES
A-1B Comparative Governent Semester I: England, France, and Switzerland. Semester II: Italy, Germany, Russia, and Japan.
Year course ( $8-8$ )
71A-71B American Government and Politics
位 71A-Governmental organization in legislative, executive and judicial branches of the zation, powers and functions of the lexpion of its activities.
national government, and the expans democratic control of government in the United 71B-Development of the means of democratic control of political parties ; party States; the history, motivation, methods and contity groups; the lobby; the press.
machines; election systems; influence
This course is not open to freshmen.
Year course (3-3) (Not offered in 1944-45)
UPPER DIVISION COURSES

## Leonard

101 American Institutions Constitution of the United States, and a survey of A study of the principles of the Constich have developed under it.
the political and social institutions whe law to secure credit in All candidates for the bachelor's degree are required by Sollo courses: History 171Athis course, unless they have completed one of the following courses. This course is offed only in $171 B, 173 A-173 B$
Enrollment is limited to students of junior or senior standing, except with the consent of the instructor.
Fall (2)

## 111 Theory of the State

Leonard
The nature of the State, its organization and activities, and its relation to the in the field of political thought. Special attention will be given to recent developments Fall (3)

## 113 American Political Ideals

Leonard
Underlying theories and principles of American governmental policy.
Spring (3) (Offered in 1944-45 and alternate years)
133A-133B Principles of International Law
This course is concerned with the function of law in the international community, cation of international law in the theory and rules of international law, the applinational law in national courts will be studied relations and the application of interYear course ( $3-3$ )

## 136A-136B Problems of the Pacifio Area

Particular emphasis
Century of the governmental first semester on the development through the 19th national. The second semester problems of the Far East, both internal and interaspects of these problems. Year course (8-3)

141 Theories of International Relations
modern times. Theories of 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. experienc
Fall (3) (Not offered in 1944-45)

## 142 International Organization <br> Prewar attempts at internation

of international relationships, postwanization, the effect of the World War on ideas will be given to the organization ar attempts at organization. Special attentio tion sinery, accomplishments and failures, tion since the war.
Spring (3) (Not offered in 1947-45)
143A-143B Principles of Public Administration in the United States
and the relationship between these agencies in the American federal government concerning the proper field of these agencies and the changes in American concepts Year course ( $3-\xi$ ) (Offered in governmental activity.
-40 and alternate years)
A study of the work of the Citutional Development
Leonard constitutional law.
Year course ( $3-3$ )

## PSYCHOLOGY

Lower division preparation
Psychology 1A-1B, Zoology 1A-1B or Biology for advanced work. Recommended: or 5A-5B, Mathematics 8, 1A-1B or Biological Soience 10A-10B, Philosophy 3A-3B 1A General LOWER DIVISION COURSES
An elementary survey of normal adult ptaff subjective and objective aspects of behavior psychology, focused upon personality; the psychology.
Fall and Spring (3)

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

## 4A Applied

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

## 4B Psychology Applied in Business

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

## 4C Psychology in Industry

Study of time, motion, lighting, fatigue; selection, placing, training, evaluating per, counseling, adjusting for morale and efficiency ; direct bseran chance for specialization allowed. Prerequisite:
A-1B or equivalent
Spring (3) (Offered in 1944-45 and alternate years)

## UPPER DIVISION COURSES

## 102A Genetic: Child

This course represents the main effort of the psychology department to provide an orientation toward parenthood. The course has been developed in recognition of the need for the establishment of parental-domestic adjustment through through common growth and development from the prial in child psychology ; emphasis nowledge by parents of relevant material in genetics and child psychology ; emphasis is practical.
Fall (3) (Not offered in 1944-45)
102B Genetic: Adolescence
Survey of the wealth of knowledge in physiology, sociology, and psychology recently lable to parents and professional workers with youth just before, during, and after puberty.
Spring (3) (Not offered in 1944-45)

## 118 Mental Hygiene

Problems, personality adjustment, emotional problems, attitudes, conflicts, neurotic behavior, conduct disorders of both child and adult.
The beginnings of undesirable attitudes and habits and methods of treating them are stressed more than serious cases of maladjustment which are either incurable or problems for a psychiatrist. The methods of buisorders. Prerequisite: Psychology emphasized more than the analysis of ex.
1A. Recommended: Psychology 1B,
145 Social Psychology in elation to social environment. Suggestion, imitation, Personality as it develops in relation to social environmudice, propaganda, sex differleadership, the crowd, public opinion, social controc, pregy 1A. Recommended: Psyences, race
chology 4A.
Fall (3) (1945-46)

150 Abnormal Psychology
Steinmetz
The relation of psychology to the psycho-neuroses and insanity; the appearance of abnormal traits in incipient stages of mental disturbances. Methods of diagnosis and early treatment.
Fall (3) (Offered in 1944-45 and alternate years)
151 Clinical Psychology
Steinmetz
A study of diagnostic individual tests, the interview, and especially personality tests, and of psychotherapeutic principles, for intensive study of personality and face-to-face judgment. Specialization is determined by individual needs. Spring (3)

## 160 Experimental Psychology of Learning

Introduction to instrumental and comparative psychology and to methods of research department andent of behavior theory. Prerequisite: 5 units of other work in the Fall (3) (Not offered in 1944-45)

## TWO-YEAR COURSE

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

## SECRETARIAL TRAINING

## LA Business Mathematics

A practical course in the mathematics of business. A thorough study of interest, Fall and Spring (1) (No credit will ben tables, insurance rates, etc.
Fall and Spring (1) (No credit will be counted toward A.B. degree requirements except in the curricula leading to the Business Education Credential)
L1A-L1B Typewriting
A rapid development of a thorough command Amsden
acquisition of speed and the artistic arrangement a keyboard by the touch method. The reference to commercial forms, tabulationgement of typewritten material with special preparation of manuscripts ; transcription, and laboratory practice.
Year course (3 3) (Vo.
in the curricula leading to the Business Education toward A.B. degree requirements except
L2A Typewriting
A short course designed for those not wishing to Amsden
a knowledge of the use of the typewriter Spring (2)

L3A Office Methods and Appliances
Practice and principles of office management Wright operation. Study and use of modern office appliances organization, arrangement and graph, filing devices, calculating and bookkeeping ees such as the multigraph, mimeoTraining 1A or its equivalent.
Fall (3) (No credit will be counted toward A.B. degree requirements except in the curricula leading to the Business Education Oredential)

## L5A-L5B Stenography

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

L6A-L6B Advanced Stenography
Amsden
Development of speed in writing and transcription. Advanced dictation on letter forms, legal forms, speeches, and literary and technical material.
Year course 3-3
English in Business (See English, page 75)

## SOCIAL SCIENCES

The courses offered in the Social Sciences are listed below. See pages listed after each subject for a more complete description of the offerings under that designation. Anthropology, see page 54; Economics and Commerce, page 63; Geography, page 80; History, page 84; Political Science, page 103; Social Science, page 107; and Sociology, page 108.

## 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 followthe departmentat requirements form, political soience, sociology. ing sciences: Anthropology, economics, geography, history, poive Twenty-four units of Liberal arts major (upper division) in social science, required. division units in one of upper division work including a concentration of two
the following fields and six units in each of two others: Anthropology, economics, the following fields and six units in each of geography, history, political science, sociology.
This major is available only to students who are preparing for graduate work in anthropology, political science, or sociology, and to those enrolled in certain preprofesanthropology, political scional for candidacy for a degree with a social science major mem the dean of liberal arts.

## COWER DIVISION COURSES

1 A Contemporary Political, Social and Economic Problems A. G. Peterson In analysis of of which they arise andelth restard to their essential unity and interrelationships. Particular attention to implith regard to their est-war problems. An attempt to introduce the student to sound methods of approach in dealing with these problems.

Fall and Spring (3)
1B American Trends Since 1918
Ain War. Stress on immediate background Main currents of American life since the World War. Stress major events which have of modern institutions. Aims to familiarize college generation.
Fall and Spring (3) (Not offered in 1944-45)

## TWO-YEAR COURSES

L40 Contemporary Problems
A survey of the major political, social, and economic forces in moden are given sound Chief problems are analyzed in relation to their setting, and students are given sound methods of approach in dealing with them. ear curriculum
Fall (3)

## 45 American Democracy

government, as it relates to individual Americans Special emphasis on popular participation through voting, political parties, pressur groups, and public opinion. Prereq
Spring ( 3 )

## SOCIOLOGY

Lower division preparation for the liberal arts major in social science with concentra tion in sociology: Sociology 50.A,50B; Economics 1A-1B and one of the following year courses: Anthropology 50A-50B, Political Science 1A-1B, 71A-71B. See requirements for the social science major, page 107 .

## LOWER DIVISION COURSES

50A Introduction to Sociology
Barnhart A study of modern social problems recognizing the geographic, economic, psychological, and sociological factors involved. Emphasis is on a scientific method of approach. An evaluation of various causes and solutions of problems is made. Fall (3)

## 50B General Sociology

Barnhart
A course in general sociology for upper division students. The development and us of the concepts of sociological analysis, such as human nature, the effects of isolation and social contacts upon the development of personality ; social interaction ; social processes ; social forces ; social control ; collective behavior; and social progress.
Spring (3)
55 Marriage and Family Life
A psychological and sociological approach to the study of marriage and the family. Some of the topies considered are : relation of courtship to marriage; emotional maturity and marriage ; eugenic aspects of marriage ; college marriages ; harmony in modern marriage ; economic adjustment in marriage, parenthood. Prerequisite: Health Education 1 or 2 ; a biological science and Psychology 1A recommended. Not open to Freshmen.
Fall (3)
105 Social Pathology
Barnhart
A study of the alleged abnormal phenomena in society; family disorganization and personal demoralization ; pathology of individual and group relationships and of economic, social, and cultural relationships.
Fall (3)

## 106 Criminology and Penology

Barnhart
and sociological causes of crime; study of methods of penal discipline, prison labor, parole, and probation ; programs of prevention. Spring (3) probation; programs of prevention.

## 108 The Family

Barnhart
History of marriage and family as a social institution. Effects of various economic and social factors on the modern family; higher education and the birth rate; married women in industry and professions; causes of desertion and divorce and their ; maciological effects. Not open to students who have credit for Sociology 55.
Spring (3) (Offered in 1945-46 and alternate years)

## 109 Fields of Social Work

A survey of the nature of social work and the various kinds of social work which are found in modern urban life. The student is familiarized with the various which are cies in the community, their problems and methods of work, by readings and field trips. Volunteer social work in some social agency recommended.
Spring (8)

126 Social Reform Movements
A study of organized efforts to change social institutions in the United States since 1865. Emphasis given to backgrounds, objectives, techniques, and relationship to democracy of each movement. Fall (3) (Not offered in 1944-45)

197 Urban Sociology
Barnhart A study of the structure and function of the modern city; types of neighborhoods; forms of recreation; social forces in a metropolitan area; types of urban personalities and groups ; rural-urban conflicts of culture. Practical field studies required. Fall (3)

TWO-YEAR COURSE
L45 Marriage and the Family
Perry
The purpose of this course is to prepare young people for successful marriage and family life. The development of the personality through family relationships, the choice of a life partner, and the social and economic factors involved in the establishment of a home, are given special emphasis. The importance of the family as a unit in larger social groupings is stressed, and both psychological and material factors which affect the welfare of family members are brought to the student's attention. Open only to students enrolled in a two-year curriculum. Prerequisite: Sophomore standing.
Spring (3)

## SPANISH

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

LOWER DIVISION COURSES
Phillips, L. P. Brown
A-B Elementary
y written work; clas
Intensive study of Spanish grammar and syntax, with daily writ discussion and drill in conversational idiom and pronunciation; reading with oral Credit not given résume ; dictation; introduction to contemporary prose wro have had one year of for Spanish A unless followed by Spanish B. Students wh Spanish A. Those who Spanish in high school should register for two units of work in Span
have had two years of Spanish in high school should register for four units of work in Spanish B.
Year course (5-5)

## Phillips

C-D Intermediate Spanish
Reading and prose as basis for class work; collatera reading and composition : study of staten reports in Spanish; dictation. Class work reading in prose and drama, with written reporferences. Prerequisite: Spanish B or conducted mainly in Spanish. Individual conferent. Students with credit for four years of high school Spanish, or its equivalent, should enter Spanish D.
Year course (3-3)

## 1-2 Elementary

Year course (3-8) (Not offered in 1944-45)

## Phillips

50 Spanish Commercial Correspondence A one-semester intermediate course in Spanish composition, direction of real business commercial letters, and supplementary reading in Spanish on commercial subjects. P.
letters, and supplementary reading in Spa or completion of Spanish C or D.
Pall (3)

## UPPER DIVISION COURSES

Phillips
101A-101B Conversation and Composition
Prerequisite: Spanish D , or its equivalent, with grade of $C$.
Year course ( $3-3$ ) (Offered in 1945-46)

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 1946-47)

## 104A-104B Spanish-American Literature

Phillips
Reading from representative Spanish-American authors during the colonial, revolutionary and modern periods. Lectures, class reading, collateral reading and reports Prerequisite : A grade of $C$ in Spanish D or permission from the instructor.
Year course (8-3)
See also English 104, Latin-American Literature in English, which may be taken for Spanish credit.

## 105A-105B Modern Spanish Drama

L. P. Brown

The development of the drama of Spain from the beginning of the nineteenth century to the present time. Prerequisite : A grade of $C$ in Spanish D or permission from the instructor.
Year course (3-3) (Offered in 1947-48)
110A-110B Novel and Short Story in Spain
L. P. Brown

The development of the novel and short story in Spain from 1830 to the present time. Prerequisite: A grade of $C$ in Spanish D or permission from the instructor.
Year course (3-3) (Offered in 1945-46)
199 Comprehensive Reading and Survey Course
The Staff
Designed to fill up the gaps in the reading done in courses. Class meeting once a week for guidance, reports, and quizzes. Required of all seniors majoring in Spanish. Spring (3)

## SPEECH ARTS

Lover division preparation of the Liberal Arts major in Speech Arts: At least 18 units of lower division courses in Speech Arts, including 1A, 1B, and six units chosen from $55 A, 55 B, 55 C, 55 D$. Recommended: Aesthetics $1 A, 1 B, 50$; Art 52A, 94
Upper division requirements for the Liberal Arts major in Speech Arts: At least 18 $155 \mathrm{~A}, 155 \mathrm{~B}$, 156 A , 152A, $159 B, 156 A, 156 B$. Also required: six units from English 112, 113, 117A, 117B 5h, 102B. Recommended: English 110, 116B ; French 105A, 105B ; Physical Education 164A, 164B; Spanish 105 A .

Teacher Edes for the teaching credentials in Speech Arts should refer to "Admision to ial in Speech Art on page 21 or to the note regarding the Special Credenial in Speech Arts on page 35.

## LOWER DIVISION COURSES

## A Fundamentals of Public Speaking

## F. L. Johnson

Training in fundamental processes of oral expression; methods of obtaining and speaking and open forum debating princles of attention and delivery; extemporaneous of speech.

## Fall and Spring (8)

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

1C Oral Interpretation
Jones
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 English literature
Fall (3) (Not offered in 1944-45)
1D Advanced Interpretation
Jones
Emphasis placed on stage poise and grace with adequate attention given to variations in the presentation of literary selections. Much opportunity is provided for individual and group creative work. No prerequisite. Class limited.
Spring (3)

## 20 Corrective Speech

Corrective laboratory training prescribed on the basis of vocalization tests made on Electro-Vox Recording Machine. Required of education majors who fail to meet spech requirements test. Private clinical assistance given to stutterers and lispers. Fall and Spring (1) (9 weeks' course) (Not-offered in 1944-45)

## 55A-55B Dramatic Production

Jones
A course for first and second year students in which, through participation, they aequire 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 (3-8) (Offered in 1945-46 and alternate years)

## 55-55D Dramatic Expression

Jones
A course to help students realize and develop their creative abilities for expressing life and character through acting and writing. History, technique and theory of various dramatic forms studied, created and presented through workshop methods. A fundamental writing. Prerequisite : Consent of instructor.
Year course (3-3) (Offered in 1944-45 and alternate years)

## 60 Augmentation and Debate

Obtaining and organizing of evidence and the construction and use of the brief; tudy and discussion of current issues; the presentation of formal and informal ebates. Attention to intramural and intercollegiate debating.
Spring (3) (Not offered in 1944-45)
61A-61B-61C-61D Intercollegiate Debate
Year course, each year (1) (Not offered in 1944-45)
63A-B-C-D Verse Choir
Jones
Participation in verse speaking chorus to develop quality, range of tone, and ability in dramatic visurisation of poetry. Required for speech arts credential.
Fall and Spring (1-1)
102 Organized Discussion
Onsideration Onsideration of the symposium, the panel, the open forunization and presentation. Attention to of conference speaking. Emphasis upor groups.
Attention to parliamentary procedu
Fall (3) (Not offered in 1944-45)

## 08 Art of Interpretation

daalysis of various aty iter of literature. Material chosen will emphase the finer echniques ef emotional power, read ing skill and platform deportment in its varied phases.
College Speech or equivalent.
Spring (3) (Not offered in 1944-45)

110 Recreational Reading
See English, page 76.
112 History of the English Language
See English, page 76.
113 American English
See English, page 76.
116B The Elizabethan Drama
See English, page 77.
117A-117B Shakespeare
F. L. Johnson

See English, page 77.
F. L. Johnson

## 150 Phonetics

Auditory and kinaesthetic analysis of the sounds of the English language. Valuable as a corrective course in pronunciation and articulation. Required of speech majors Fall (2) seeking Speech Correction Credential.
Fall (2) (Not offered in 1944-45)
152A Survey of Drama: Comedy
See English, page 78.

## 152B Survey of Drama: Tragedy

See English, page 78.
155A-155B Advanced Dramatic Expression
For upper division students training for leadership in different fields as well as
drama. More advanced forms of dramatic drama. More advanced forms of dramatic expression studied; creative abilities in subjects and activities conducted, and stagecraft developed in relation to various subjects and activities conducted through individual research projects, group discusdrama course.
Year course (3-3) (Offered in 1945-46 and alternate years)

## 156A-156B Advanced Dramatic Production

The study of more difficult dramatic types and periods in the production of poetic
and prose literature of different countries. and prose literature of different countries. Arrangement, organization, creation, direction and presentation of class room, recreational and other forms of performances. Practical participation and demonstration. A course designed for students majoring in other subjects as well as the theater arts.
Year course (3-3)-(Offered in 1944-45 and alternate years)
157A-157B Radio Production
Preparation and production of ralio plays and variou Fall and Spring (3-3)

163A Rhythm, Pantomime and Choric Verse
A course combining bodily movement with group speaking. Presents the fundamentals of rhythm and pantomime in different forms of dramatic. Presents the fundamentals Spring (3) (Offered in 1945-46 and alternate years)
163B Advanced Rhythm, Pantomime and Choric Vers
Continuation of above.
Spring (3) (Offered in 1944-45 and alternate years)

## 175 Major Speech Disorders

Clinical survey of newest methods of speech correction with special emphasis given to Credential.
Spring (3) (Not offered in 1944-45)

## TWO-YEAR COURSE

## 40 Fundamentals of Public Speaking

Training in fundamental processes of oral expression; practice in organization and presentation of material ; emphasis upon speech in daily situations, including public discussion, conversation, recitation, extemporaneous speaking, and short speeches or special occasions. Open only to students enrolled in a two-year eurriculum.
Fall and Spring (3) (Not offered in 1944-45)

## ZOOLOGY

Lower division preparation for the liberal arts major in zoology: Zoology 1A, 1B, and high school chemistry, Chemistry 1A-1B or 2A-2B. Recommended: German or French, Botany 2A, 2B, 4.
Liberal arts major in zoology: (1) At least a C average in upper division major courses. (2) Twenty-four units of upper division courses in zoology or eighteen in the major subject and six in related courses in botany, chemistry, physics, physiology or bacteriology.
Students preparing to teach science in the junior high school should try to include courses in zoology, botany, physiology, bacteriology, physics, chemistry (at least high school chemistry). Courses designed to help the student get acquainted with wild life of the region should be included. Recommended: Botany 4, 104, 102; Zoology 112, 113A, 11sB, 113C, 121.

LOWER DIVISION COURSES
1A General Zoology
Harwood
An introduction to animal biology dealing with structure, functions, and evolution of animal life. Laboratory work supplementing the lectures and based on the study and observation of living and preserved material (frogs and invertebrates). Valuable to the general student as well as to the biology specialist, acquainting him with the fundamental facts and theories of biology as they pertain to animal life. Two lectures or recitations and six hours of laboratory per week. Students who have credit for Biology 10A-10B receive no credit for Zoology 1A but receive credit for Zoology 1B. Pall (4)
1B General Zoology

## Harwood

A continuation of 1 A . The structure, relationships, and classification of the chordates. Two lectures and six hours of laboratory per week. Prerequisite: Zoology 1A or Biology 10B.
Spring (4)
4 Microtechnique
M. E. Johnson

Introduction to methods of preparation of tissues for microscopic study. Six hours of laboratory per week. Prerequisite: elementary chemistry.
Spring (2)

## Crouch

8 Human Anatomy Crouch
4 study of human structure through the use of models, prepared dissections and microscopic slides. Prerequisite : high school biology, Biology 10A, 1, or Zoology 1A. hours of lecture and three hours of laboratory per week. To 2 nits if student has students. Not open to premedical students. Credit reduced to 2 units if student has eredit for Zoology 20.
Pall (3)
Crouch
20 Human Anatomy and Physiology An elementary course in human anatomy and physiology. Prerequisite: High sered biology, or Biology 1 or 10A or Zoology 1A. Lectures Phee 8 or Physiology 1A.
reduced to 2 units if student has credit for Zoology 8 or
Pall and Spring (3)
$8-31196$

100 Embryology
M. E. Johnson

The development of vertebrates as illustrated by the frog, chick, and pig. Three hour of laboratory and three hours of lecture and quiz per week. Prerequisite: Zoology 1B or Biology 10B.
Spring (4)
100D Microtechnique
M. E. Johnson

Introduction to methods of preparation of tissues for microscopic study. Three hours of laboratory per week. Prerequisite: elementary chemistry and embryology completed or in process.
Spring (1)
106 Comparative Anatomy of the Vertebrates
Dissection, study and comparison of organ systems of typical vertebrates. Two hours per week of lecture and six hours of laboratory. Prerequisite: Zoology 1B or Biology 10B.
Fall (4)
108 Human Anatomy
Crouch
Lectures and laboratory work of Human Anatomy 8 with an additional hour of seminar each week. Open only to upper division students by special arrangement. Fall (3)

## 112 Marine Invertebrates

M. E. Johnson

Identification and study of behavior and life histories of invertebrates of the San Diego region. Frequent collecting trips to the beaches required. Prerequisite: Zoology 1A or Biology 10B. One hour of lecture and six hours of laboratory or field work per week Fall (3) (Offered in 1945-46 and alternate years)
113A Taxonomy and Natural History of the Mammals
Harwood
Frequent field trips and the identification of museum material. Three hours of laboratory per week.

## Spring (1) (Offered in 1944-45 and alternate years)

113B Ornithology
Crouch
The study and identification of birds, especially those of the Pacific Coast and the San Diego region. One hour of lecture and six hours per week of laboratory, or field excursions. Prerequisite: Zoology 1B or Biology 10B.
Spring (8) (Offered in 1944-45 and alternate years)
114A Genetics
Harwood
General introductory course designed to acquaint the student with the fundamental principles of heredity and variation. Special attention given to the Mendelian interpretations of the facts of inheritance. Two lectures per week.
Fal

114B Evolution
M. E. Johnson

The development of theories of evolution. Two lectures or M. E. Johnson Spring (2)

## 121 General Entomology

## Harwood

The classification, life history, structure, and plysiology of insects. Prerequisite : Zoology 1A or Biology 10B. Two hours of lecture and six hours of laboratory per week. Spring (3)

122 Systematic Entomology
Harwood
e student's
22 Systematic Entomology
choice. To be taken with or to follow 121. May be repeated for credit but with a total of not more than 2 units. Three to six hours of laboratory work each week. Spring (1 or 2)

## 124 Scientific Illustration

Instruction and practice in various methods used to illustrate scientific publications. Recommended course in preparation for this one : Art A-B.
Fall (2)

## 126 Medical Entomology

The role of insects and other arthropods in transmission and causation of human diseases. Three hours of laboratory and one hour of lecture per week. Prerequisite: Zoology 1A or Biology 10B.
Fall (3) (Offered in 1945-46 and alternate years)

## 130 Readings in Biology

Harwood
Reading from a suggested bibliography with informal class discussion of topics. Subjects discussed will include history of biology, biological principles, ecology, economic zoology, zoogeography, breeding habits, animal behavior.
\$pring(2) (Offered in 1945-46 and alternate years)

## 199 Special Study

The Staff
Work other than is outlined in the above courses. Admission only by consent of the instructor with whom the work is to be done. Credit and hours to be arranged in instructor with whom the work is to be done. a grade of $\mathbf{A}$ or $\mathbf{B}$.
Fall and Spring (1 or 2)

## DIRECTORY (1943-44)

HEPNER, WALTER R $\qquad$ President A.B., 1913, M.A., 1916, Ed.D., 1937, University of Southern California. At ADAMS, JOHN R. $\qquad$ Professor of English A.B., 1920 , A.M., 1922, University of Michigan; Ph.D. ${ }^{1940}$, University of $\dagger$ ALCORN, MARVIN DOUGLAS $\qquad$ Assistant Professor of Education; Director of Teacher Placement A.B., 1925, Southwestern College ; A.M., 1931, Teachers College, Columbia University; Ed.D., 1942
College since 1941.
*ALLEN, HAROLD BYRON $\qquad$ Assistant Professor of English A.B., 1924 , Kalamazoo College ; A.M., 1928, Ph.D., 1940, University of Michi-
gan. At San Diego State College since gan. At San Diego State College since 1940

## SDEN, GEORGIA C.

$\qquad$ Associate Professor of Commerce Diploma, Gregg School, Chicago. At San Diego State College since 1925.
AULT, JESSE W. $\qquad$ Dean of Education, Professor of Education B.S., B.Pd., 1910 , Valparaiso University; M.A., 1925, University of South University of Southern California. At San Diego State College since 1925 .
BACON, GUINIVERE KOTTER (Mrs. George) _-Supervisor of Student Teaching; Associate Professor of Education B.S, Utah Agricultural College ; M.A., Stanford University. One year graduate
study since 1926 at Stanford University, Teachers College of Columbia Univer-
sity, University of Southern California, and Univergity of Cifornial sity, University of Southern California, and University of California at Los Angeles. At San Diego State College since 192S.
BAIRD, OSCAR $\qquad$ Professor of Physics
B.A., 1910, University of Wisconsin; M.A., 1924, University of California. of California, University of Southern California, University of Oregon. At San Diego State College since 1921.
*BAKER, CLIFFORD HENRY, Jr. $\qquad$ Instructor in Spanish and French B.A., 1933, San Diego State College ; M.A., 1935, University of Callfornia. Two
years graduate study since 1935 at University of California. At San Diego
State College since 1937 . BARNHART, KENNETH EDWIN $\qquad$ Associate Professor of Sociology A.B., 1915, Southwestern University, A.M., 1920; Southern Methodist Uni-
versity ; Ph.D., 1924, University of Chicago. At San Diego State College since
1939. *BENNETT, MURIET $\qquad$ Instructor in Physical Education
B.A., Pomona College; M.A., Claremont Colleges. One-half year graduate Angeles. At San Diego State College since and University of California at Los

N_ $\qquad$
_Instructor in Meteorology
Meteorologist, U. S. Weather Bureau. At San Diego State College since 1927. $\dagger$ BROMLEY, J. PHILIP $\qquad$ Assistant Professor of Commerce B.S., 1934, M.S., 1936 , University of Southern California. One year graduate
study since 1936 at University of Southern California. and Texas Agricultural and Mechanical College. At San Diego State College

[^9]BROOKS, BAYLOR $\qquad$ _-Assistant Professor of Geology B.A., 1928, Stanford University. Two years graduate study since 1928 at
University of Arizona and Stanford University. At San Diego State College University,
since 1931.
BROWN, ELIZABETH (Mrs. Leslie P.) $\qquad$ Associate Professor of French Ph.B., M.A., Ph.D., University of Chicago $t$ San Diego State College since

BROWN, LESLIE PARKER- $\qquad$ Professor of Spanish and French B.A., 1912, Yale College; M.A., 1913, Harvard University ; Ph.D., 1935, UniBersity of Southern California. At San Diego State College since 1922.
†CALLAND, LEO BLAKELY $\qquad$ Associate Professor of Physical Education †CALLAND, LEO BLAKELY_........Associate Professor orn Chivernia; M.S., 1931, University of Idaho.
B.A., 1923, University of Southern Calif
One year graduate study since 1931 at University of Southern California. At One year graduate study since 1935 .
San Diego State College since
CAMERON, ROY ERNEST $\qquad$ Professor of Economics A.B., 1922, Ph.D., 1929, University of California. At San Diego State College since 1929 .
CORBETT, KATHERINE E. $\qquad$ _Supervisor of Student Teaching; Associate Professor of Education B.Pd., Michigan State College ; B.S., M.A., Teachers' College, Columbia UniB.Pd., Michigan State College; B.S., M.A., Teach
versity. At San Diego State College since 1921 .

CROUCH, JAMES ENSIGN $\qquad$ Professor of Biology B.S., 1930, M.S., 1931, Cornell University ; Ph.D., 1939, University of Southern B.S., 1930, M.S., 1931, Cornelt Ute College since 1932 .
$\dagger$ DARSIE, MARVIN LLOYD, JR................................................. By A.B., 1934, University of California at Los Angele
University. At San Diego State College since 1939.

DEPUTY, ERBY CHESTER $\qquad$ Professor of Education B.A., 1922, University of Denver ; M.A., 1926, Ph.D., 1929, Columbia University. At San Diego State College since 1931 .
DICKHAUT, FLORENCE LILLIAN SMITH (Mrs. Charles A.)
B.A., Northwestern University ; M.A., University of Chicagossor of English State College since 1917.
**DUSTIN, GERTRUDE LORRAINE $\qquad$ Instructor in Psychology and Home Economics B.S., Teachers College, Columbia University; M.S., University of Southern California. At San Diego Junior College since 1941. $\Varangle$ EUBANK, JOHN F. $\qquad$ Assistant Professor of Physical Education Assistant Professor of Physical Education
EdM., 1939, State College of Washington. B.S., 1933, M.S., 1937, Ed.B., 1937, Ed
At San Diego State College since 1942 .

GLEASON, JOHN MORTIMER $\qquad$ -Assistant Professor of Mathematics B.A., 1929, University of California at Los Angeles; M.A., 1930, University B.A., 1929, University of California at Los Angstudy since 1930 at University
of California. One and a half years graduate study at Los Angeles and Clareof Callfornia. One and a half years Ealifornia, University of California at Los
of Southern Cor 1930 .
mont Colleges. At San Diego State College since
mont Colleges. At San Diego State College since 1930. HAMANN, ILSE HEDWIG- $\qquad$ M.A., Columbia University. B.E., University of California at Los
At San Diego State College since 1934 .

## HAMMACK, EDITH CHASTAIN

$\qquad$ Supervisor of Student Teaching B.A. San Jose State College. At San Diego State College since 1911.

HAMMACK, ISABELLA STEWARD.
Supervisor of Student Teaching ; Assistant Professor of Education As-half year graduate study since B.A., M.A., University of California. San Diego State College since 19.0 B.A., M.A. University of Callifornia. San Diego S
1929 at University of California. At Sal

## On military leave <br> Junior college

HARVEY, DOROTHY R. (Mrs. F. A.) $\qquad$ Assistant Professor of Botany B.A., San Diego State College; M.A., University of Southern California. One year graduate study since 1928 at University of Southern
versity of Chicago. At San Diego State College since 1924 .
HARWOOD, ROBERT DANIEL $\qquad$ Professor of Zoology A.B., 1920, Pomona College ; Ph.D., 1928, Cornell University. At San Diego
State College since 1928. SER, LOWELL D. $\qquad$
$\qquad$ _-Inst Diploma, 1924, Chicago Art Institute. Five years' special study since 1924
in Mexico, Yucatan, Haiti, and New York City. At San Diego State College since 1938.
HUFF, GEORGE D........................................ Professor of Health and Hygiene M.D., 1924, University of Texas. At San Diego State College since 1939.

HUNT, MARGARET B. (Mrs. E. J.)
Supervisor of Student Teaching;
Instructor in Music B.S., M.A., Teachers College, Columbia University, One-half year graduate
study since 1935 at Teachers College, Columbia University, and Michigan State
College. study since 1935 at Teachers College, Columbia
College. At San Diego State College since 1940.
JACKSON, EVERETT GEE $\qquad$ Professor of Art B.A., 1930, San Diego State College. Three years special study in Mexico.
M.A., 1939, University of Southern California. At San Diego State College
俍 since 1930.

## JOHNSON, FRANK LOUIS

S $\qquad$ Assistant Professor in English B.A., 1928, M.A., 1929, University of Minnesota; Ph.D., 1934, University of
Wisconsin. At San Diego State College since 1939.

JOHNSON, MYRTLE $\qquad$
_- Professor of Biology B.S., M.S., Ph.D., University of California. At San Diego State College
since

JONES, SYBIL ELIZA $\qquad$ _-Assistant Professor of Speech Arts B.L., M.L., University of California. Two years special study since 1907.
At San Diego State College since 1925.
$\dagger$ JORDAN, HARRY JOHN $\qquad$ Professor of Commerce B.A., 1926, Washburn College ; M.B.A., 1930, Harvard School of Business
Administration : Ph.D., 196, Northwestern University. At San Diego State Administration; Ph.
College since 1939 .
KEENEY, JOSEPH SUMNER $\qquad$ Associate Professor of English B.A., 1921, Yale College; M.A., 1928, Ph.D., 1933, University of California. At
San Dlego State College since 1933.

## Y, GENEVIEVE

$\qquad$ Assistant Professor of Sociology B.A., University of California ; M. A., Columbia University. At San Diego

KENNEDY, OHESTEER BARRETT $\qquad$ Assistant Professor of English B.A., 1927, Chico State College ; M.A., 1939 , Stanford University. Two and
one-half years graduate study since 1928 at Stanford University and the University of California. At San Diego State College since 1937 .
LEIB, JULIUS $\qquad$ Asisstant Professor of Music Three years special study at Leipzig Conservatory. At San Diego State Col-
lege since 1938. LEONARD, CHARLES B. $\qquad$ _Professor of History B.A., 1921, M.A., 1922 , Ph.D., 1929, University of Callfornia. At San Diego
State College since 1921 .

## LESLEY, LEWIS B

$\qquad$ Professor of History B.A., 1920, Stanford University; M.A., 1923, Ph.D., 1933, University of $\ddagger$ On military leave

LIVINGSTON, GEORGE ROBERT $\qquad$ Professor of Mathematics B.S., 1910, M.A. 1922, University of California. One year graduate study Angeles. At San Diego State College since 1921.
¡LUCIO, WILLIAM HOWARD $\qquad$ Supervisor of Student Teaching : Assistant Professor of Education A.B., 1934, M. A., 1937, University of California. Three years graduate study
since 1934 at University of California. At San Diego State College since 1939 . MADDEN, RICHARD
$\qquad$ Principal of Campus Elementary School ; Professor of Education
B.A., 1926 M. The Shers College : M.A., 1930, Ph.D., 1931 B.A., 1926 , Nebraska (Peru) State Teachers College; M.A.,
Columbia University. At San Diego State College since 1939. Columbia University. At San Diego State College since $183 \mathrm{C}^{2}$
*MEAD, HUNTER $\qquad$ Assistant Professor of Philosophy and Psychology B.A., 1930, Pomona College ; M.A., 1933, Claremont Colleges ; Ph.D. 19.

MENDENHALL, MARY___._. Dean of Women ; Professor of Educational Guidance B.A., University of Colorado ; M.A., University of Southern California; Ph.D., Yale University At San Diego State College since 1939.
 B.A., 1927, M.A., 1928, Stanford University. Two years graduate study since B. A.,
1928 at Tec
since 1931. since 1931. $\qquad$ Associate Professor of Physics
$\dagger$ MOE, CHESNEY R. D., 1941, University of Southern B.A., 1929, M.A., 1931, Stanford University ; Ph.D.,

California. At San Diego Stat $\qquad$ Professor of History
 B.A., 1921, M.A., 1922, P
State College since 1928. $\qquad$ Instructor in Chemistry *NICHOLS, AMBROSE R., Jr._-................................ University of Wisconsin. At B.S., 1935 , University of California ;

NORDAHL, MARGUERITE ANNA.................. Supervisor of Student Teaching; B.A., San Diego State College; M.A., Claremont Colleges. At San Diego State College since 1936 .
†OSBORN, CLARENCE G.....Associate Professor of History and Political Science B.A., 1926, M.A., 1927, Ph.D., 1935, Stanford University. At San Diego State B.A., 1926, M.A.,
College since 1937.
_Professor of Art
PATTERSON, LENA E.-......................................................... One year graduate A.B., B.S., Ohio University, M.A., Columbia Unis, At San Diego State College A.tudy since 1918 in Berlin, since 1933. $\qquad$ Assistant Professor of Physical Education
$\dagger$ PEASE, ESTHER ELIZABETH -....-Assistaneles. One year graduate study at B.A., University of California at Loses, University of Southern Calinor At An Mills College and one year Eur Diego State College since 1939.
$\dagger$ PEIFEER, HERBERT C., Jr...............Instructor in Psychology and Speech Arts A.B., 1928 , University of California at Los Angeles; M.A., 1931, Ph.D., 1939,
190 lege since 1941.
s. J. M.)

Director of Guidance for Two-Year Students; lege since 1941
$\qquad$ Assistant Professor of Sociology
PERRY, FAY V. (Mrs. J. M.) B.A., San Diego State College; M.A. University of Southern California and StanB.A., San Diago state study since 1931 at University of ford Univer
since 1940 .

## t On military leave <br> - On leave

PETERSON, ARTHUR G. $\qquad$ Dean of Liberal Arts ; Professor of Economics B.A., 1912, College of the Pacific; M.A., 1926, Stanford University. Two years and University of Southern California. At San Diego State College since 1921.
PETERSON, CHARLES E..........-Dean of Men; Professor of Physical Education A.B., 1928, San Diego State College ; M.A., 1937, Claremont Colleges. At San
Diego State College since 1921.
¡PFAFF, PAUL LEWIS $\qquad$ Associate Professor of Speech Arts B.A., 1929, Stanford University ; M.A., 1937, University of Southern California. B.A., 1929, Stanford University ; M.A., 1937, University of Southern California.
Two years study since 1937 at University of Southern California. At San Diego
State College since 1931 . State College since 1931.
PHILLIPS, WALTER THOMAS $\qquad$ Associate Professor of Spanish and French B.A., 1925, University of Washington; M.A., 1926, Stanford University. GraduPh.D., 1943, University of Southern California. At San Diego State College since 1927 .
POST, LAUREN CHESTER $\qquad$ Associate Professor of Geography A.B., 1924, M.A., 1931, Ph.D., 1937, University of California. At San Diego
State College since 1937.

REDIT, EDITH ESTHER
Supervisor of Student Teaching ; Assistant Professor of Education B.A., M.A., University of California. At San Diego State College since 1938.
*RICHARDSON, ROBERT WILLIAM Assistant Professor of Geography B.A., 1930, University of California. Three years graduate study since 1930 at
University of California. University of California. At San Diego State College since 1939.
$\dagger$ ROBINSON, DUDLEY HUGH $\qquad$ Professor of Chemistry B.A., 1927, Louisiana State University ; M.S., 1932, University of Iowa; Ph.D., ROGERS, SPENCER LEE

Director of Extension Service; Associate Professor of Anthropology B.A., 1927, San Diego State College ; M.A., 1930, Claremont Colleges; Ph.D.,
1937, University of Southern California. At San Diego State College since 1930 . ROSS, MELVYN K. $\qquad$ Instructor in Physics and Chemistry A.B., 1939, San Dlego State College ; M.S., 1942 , University of Southern CaliforSOHWOB, MARION LYON (Mrs. W. E.)
ssociate Professor of Physical Education B.A., University of Iowa; M.S., University of Southern California. At San
Diego State College since 1934 . SHAFER, FLORENCE I. $\qquad$ _-Assistant Professor of Physical Education B.A., University of California; M.S., University of Southern California. At
San Diego State College since 1933 ., †SMITH, CHARLES ROBERTS $\qquad$ Assistant Professor of Physical Education B.A., 1931, San Diego State College. One year graduate study since 1931 at
University of Southern California. At San Diego State College since 1933. $\dagger$ SMITH, OLIFFORD EDWARD $\qquad$ Associate Professor of Astronomy B.A., 1923, Carleton College ; M.A. 1926, Swarthmore College; Ph.D., 1936,
University of California. At San Diego State College since 1937; *SMITH, DEANE FRANKLIN $\qquad$ Assistant Professor of Music B.Mus., 1931, M.Mus., 1939, Northwestern University. At San Diego State
College since 1939. SMITH, LEILA DEBORAH $\qquad$ Professor of Music A.B., Oberlin College ; M.Mus., Oberlin Conservatory ; M.A., Columbia University. Une-half year study since 196 at Stanford Unive
western University. At San Diego State College since 1922.
$\ddagger$ On military leave
On leave
*SOULE, ELINOR $\qquad$ Supervisor of Student Teaching; Instructor in Ar B.A., San Diego State College; M.A., Teachers College, Columbia University. SPRINGSTON, CHRISTINE $\qquad$
$\qquad$
$\qquad$ Associate Professor of Music B.A., B.M., University of Redlands; M.A., University of Washington. Diplomée d'execution, Conservatoir
State College since 1930 .

STEINMETZ, HARRY CHARLES $\qquad$ Associate Professor of Psychology B.A., 1924, M.A., 1927, University of California. Two years graduate study
since 1927 at Stanford University, University of Callfornia, and Purdue Unisince 1927 at Stanford University, University of
versity. At San Diego State College since 1930 .
STONE, BERENICE IRENE Medical Examiner ; Associate Professor of Health and Hygiene B.S., M.D., University of Wisconsin. At San Diego State College since 1936.

STONE, JOHN PAUL___-_Head Librarian ; Associate Professor of Library Science B.S., 1926, Northwest Missouri State Teachers College; B.S., 1929, M.S., 1930, University of Illinois. Three years graduate study since 1926 at University
Chicago and University of Illinois. At San Diego State College since 1930 .
 A.B., A.M., University of California. At San Diego State College since 1926.
†SWANSON, CHARLES EDMUND $\qquad$ Instructor in English (Journalism) B.A., 1941, San Diego State College. At San Diego State College since 1938.

TRAIL, MABEL COY $\qquad$ _--Assistant Professor of English B.A., Parsons College; M.A., State University of Iowa. Two years graduate study since 1927 at University of Southern Califor
College 1935. At San Diego State College since 1940.
WALKER, HILDE KRAMER (Mrs.) _-.-.-.-.-.-.-Assistant Professor of German B.A., M.A., Northwestern University. At San Diego State College since 1931.

WALLING, CURTIS R._-.-.-Assistant Professor of Mathematics and Engineering B.A., 1925, E.E., 1926, Stanford University. One and a half years graduate B.A., 1925, E.E., 1926 , Stand University and University of Southern California. At San Diego State College since 1931.
WALTON, LEWIS FLETCHER .............-.................. Instructor in Mathematics B.S., 1929, M.S., 1931, Emory University ; Ph.D., 1940, University of California. At 1920 .

WATENPAUGH, FRANK M. $\qquad$ Assistant Professor of Commerce A.B., 1916, Pomona College, M.A., 1931, University of Southern California. Two years graduate study since 1931 at University of Southern Cahifornia and University of Orego
College since 1940 .
WATSON, DONALD R._-.................................... Acting Registrar and Director of Student Personnel B.A. 1924 B.S. 1925, M.A., 1927, Ed.D., 1940, University of Southern CaliB.A., 1924, B.S., 1925, M.A., College since 1939 .
fornia. At San Diego State Coll

WRIGHT, WILLIAM H. $\qquad$ Associate Professor of Commerce
1928, University of Callfornia, Ph.D., 1943, University of B.S., 1917, M.A., 1928, University of California, Ph. ${ }^{\text {Son }}$, 1921 .

Instructor in Law B.A., 1927, Pomona Colle
State College since 1938.
$\dagger$ YOUNG, CARL HAVEN $\qquad$ Assistant Professor of Physical Education B.A., 1925, Pomona College ; M.A., 1935, University of Southern California. Two years graduate study
State College since 1939 .

## I On military leave - On Teave

## SAN DIEGO JUNIOR COLLEGE FACULTY

Hepner, Walter R $\qquad$
Watson, Donald R. $\qquad$ Chairman
Dustin, Gertrude Lorraine Counseling, Psychology and Home Economics
$\dagger$ Greer, Thomas H. $\qquad$ 8, 8 Social Science

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Geo. D. Huff, M.D.
Irene Mannivg, B.S.
James A. May, M.D.
H. G. Merrill, M.D.

Anita Mühl, M.D., Ph.D.

## Fred Pyle

Alfreda Rooke, B.S.
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Louis Strahlmann, M.D.
R. H. Sundberg, M.D.

Wm. P. Thien
Michael Walch
Chester Webber, D.D.S.
Martha Welpton, M.D.

## MEDICAL STAFF

†O. S. Harbaugh, M.D. Medical Examiner for Men Richard Pegk, M.D $\qquad$ D. Acting Medical Examiner for Men Berenice I. Stone, M.D.
 Marilynn M. Fenwick, R.N. Nurse

## LIBRARY STAFF

John Paul Stone, M.S. in Library Seience $\qquad$ Head Librarian
*Margaret Helen Demcray, A.B. and Certificate in Librarianship- $\qquad$
Lulu Germann, B.S
Senior Librarian

Anita M. Ghlett
Senior Librarian
nita M. Ginlett Typist-Clerk
Nettie L. Hagar $\qquad$ Secretary to Librarian
Geraldine K. Haynes, A.B., B.S. $\qquad$ Senior Librarian
Genevieve Kelly, A.M. Senior Librarian
Elsie L. Roy, A.B $\qquad$ Senior Librarian

## Harriet B. Stovali

$\qquad$
$\dagger$ Winiered Smith $\qquad$ - On leave.
$\dagger$ On leave for military service.

## ADMINISTRATIVE OFFICE STAFF

Marion L. Campbell, M.A. $\qquad$ Assistant Registrar Stella Louise Diboll, A.B Recorder Faye Gunnell $\qquad$ Secretary to Employment-Placement Office
 Genevieve M. Hamblen $\qquad$ Secretary to the Registrar Bulie B. Holden $\qquad$ Secretary to Dean of Education and Dean of Liberal Arts Constance King, B.S $\qquad$ Secretary to Dean of Women

Fay Landweer, A.B. $\qquad$ Secretary to Dean of Men and Director of Extension

Helen M. Norris $\qquad$ Secretary to Two-year and Junior College Offices
D. G. Parker $\qquad$ B. Assistant to the Comptroller
$\dagger$ Katherine M. Pyle, A.B. $\qquad$
$\qquad$ --Secretary to Amplay
$\dagger$ Mildred Ann Robertson, A.B PBX Operator and Receptionist

Frank M. Watenpaugh, M.A.
Florende Wiggins $\qquad$ Secretary of the Campus Elementary School

## MAINTENANCE STAFF

C. L. Fisk
_Supervisor of Buildings and Grounds
$\qquad$
Whliam Duns Head Gardener Myrlen Southworth Engineer
$\dagger$ On military leave.

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[^0]:    - Grades of A or B.

[^1]:    * In addition to required physical education courses.

[^2]:    ${ }^{1}$ See lower division requirements, page 18.

[^3]:    To be chosen from the following be substituted.
    *See lower division requirements, page 17.

[^4]:    ${ }^{1}$ Foreign language if not completed in high school.

[^5]:    ${ }^{1}$ See prerequisites, page 62 .
    1 See prerequisites, page 62 .
    Foreign language if not complet in high school.
    Fore

[^6]:    - See lower division requirements, page 17

[^7]:    * See list in italics on page 49.

[^8]:    Will be offered if there is sufficient demand

[^9]:    $\ddagger$ On military leave
    $\ddagger$ On leave

