SAN DIEGO STATE COLLEGE BULLETIN 1940-1941
A section of the Academic Building with the Library Tower in the background.
TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Officers of Administration</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calendar</td>
<td>7.8</td>
</tr>
<tr>
<td>The College</td>
<td>9-22</td>
</tr>
<tr>
<td>Historical Sketch</td>
<td>9</td>
</tr>
<tr>
<td>Location and Environment</td>
<td>9</td>
</tr>
<tr>
<td>Buildings and Equipment</td>
<td>10</td>
</tr>
<tr>
<td>Facilities for the Training of Teachers</td>
<td>10</td>
</tr>
<tr>
<td>The Library</td>
<td>10</td>
</tr>
<tr>
<td>Living Accommodations</td>
<td>10</td>
</tr>
<tr>
<td>Student Life</td>
<td>11</td>
</tr>
<tr>
<td>Student Health Service</td>
<td>11</td>
</tr>
<tr>
<td>Placement Service</td>
<td>11</td>
</tr>
<tr>
<td>Alumni Association</td>
<td>12</td>
</tr>
<tr>
<td>Fees and Expenses</td>
<td>13-14</td>
</tr>
<tr>
<td>Probable Expenses for One Semester</td>
<td>13</td>
</tr>
<tr>
<td>List of Fees and Deposits</td>
<td>13-14</td>
</tr>
<tr>
<td>Admission and Registration</td>
<td>15-17</td>
</tr>
<tr>
<td>General Admission Requirements</td>
<td>15</td>
</tr>
<tr>
<td>Registration</td>
<td>16</td>
</tr>
<tr>
<td>Tests Required at Registration Time and Later</td>
<td>16</td>
</tr>
<tr>
<td>Late Registration</td>
<td>17</td>
</tr>
<tr>
<td>Change in Registration</td>
<td>17</td>
</tr>
<tr>
<td>Auditors</td>
<td>17</td>
</tr>
<tr>
<td>Loans and Scholarships</td>
<td>17</td>
</tr>
<tr>
<td>General Regulations</td>
<td>18-22</td>
</tr>
<tr>
<td>Officers for Consultation</td>
<td>18</td>
</tr>
<tr>
<td>Definition of Residence</td>
<td>18</td>
</tr>
<tr>
<td>Classification of Students</td>
<td>18-19</td>
</tr>
<tr>
<td>Scholarship, Grades, and Grade Points</td>
<td>19</td>
</tr>
<tr>
<td>Units of Work and Study Lists Limits</td>
<td>19-20</td>
</tr>
<tr>
<td>Probation and Disqualification</td>
<td>20</td>
</tr>
<tr>
<td>Withdrawals from Class</td>
<td>21</td>
</tr>
<tr>
<td>Transcripts of Record</td>
<td>21</td>
</tr>
<tr>
<td>Eligibility for Practice Teaching</td>
<td>21</td>
</tr>
<tr>
<td>The Honors Group</td>
<td>22</td>
</tr>
<tr>
<td>The Degree with Honors</td>
<td>22</td>
</tr>
<tr>
<td>Examinations</td>
<td>22</td>
</tr>
<tr>
<td>Extension and Correspondence Courses</td>
<td>22</td>
</tr>
<tr>
<td>The Bachelor of Arts Degree</td>
<td>24-48</td>
</tr>
<tr>
<td>General Requirements</td>
<td>25-25</td>
</tr>
<tr>
<td>Specific Upper Division Requirements for the Liberal Arts Curricula</td>
<td>26-27</td>
</tr>
<tr>
<td>Specific Upper Division Requirements for the Teacher Training Curricula</td>
<td>28-32</td>
</tr>
<tr>
<td>Curricula Leading to Teaching Credentials</td>
<td>33-48</td>
</tr>
<tr>
<td>The Bachelor of Education Degree</td>
<td>49-50</td>
</tr>
</tbody>
</table>

**TABLE OF CONTENTS—Continued**

<table>
<thead>
<tr>
<th>Professional and Preprofessional Curricula</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two-Year Completion Curricula</td>
<td>51-63</td>
</tr>
<tr>
<td>Two-Year Curricula in Liberal Arts</td>
<td>54</td>
</tr>
<tr>
<td>Two-Year Curriculum in Art</td>
<td>65</td>
</tr>
<tr>
<td>Two-Year Curriculum in Music</td>
<td>65</td>
</tr>
<tr>
<td>Two-Year Curriculum in Speech Arts</td>
<td>66</td>
</tr>
<tr>
<td>Two-Year Curriculum in Pre-Nursing</td>
<td>66</td>
</tr>
<tr>
<td>Two-Year Curriculum in Merchandising</td>
<td>67</td>
</tr>
<tr>
<td>Two-Year Curriculum in Accountancy</td>
<td>67</td>
</tr>
<tr>
<td>Two-Year Curriculum in Secretarial Training</td>
<td>68</td>
</tr>
<tr>
<td>Courses of Instruction</td>
<td>69-139</td>
</tr>
<tr>
<td>Aesthetics</td>
<td>70</td>
</tr>
<tr>
<td>Art</td>
<td>71</td>
</tr>
<tr>
<td>Education</td>
<td>74</td>
</tr>
<tr>
<td>Engineering</td>
<td>79</td>
</tr>
<tr>
<td>English</td>
<td>81</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td>85</td>
</tr>
<tr>
<td>Health Education</td>
<td>89</td>
</tr>
<tr>
<td>Journalism</td>
<td>90</td>
</tr>
<tr>
<td>Library Science</td>
<td>91</td>
</tr>
<tr>
<td>Life Sciences</td>
<td>91-95</td>
</tr>
<tr>
<td>Biology</td>
<td>91</td>
</tr>
<tr>
<td>Bacteriology</td>
<td>92</td>
</tr>
<tr>
<td>Botany</td>
<td>92</td>
</tr>
<tr>
<td>Zoology</td>
<td>93</td>
</tr>
<tr>
<td>Mathematics</td>
<td>95</td>
</tr>
<tr>
<td>Merchandising</td>
<td>98</td>
</tr>
<tr>
<td>Music</td>
<td>99</td>
</tr>
<tr>
<td>Philosophy</td>
<td>103</td>
</tr>
<tr>
<td>Physical Education</td>
<td>104</td>
</tr>
<tr>
<td>Physical Sciences</td>
<td>110-117</td>
</tr>
<tr>
<td>Astronomy</td>
<td>110</td>
</tr>
<tr>
<td>Chemistry</td>
<td>111</td>
</tr>
<tr>
<td>Geology</td>
<td>114</td>
</tr>
<tr>
<td>Physical Science</td>
<td>115</td>
</tr>
<tr>
<td>Physics</td>
<td>116</td>
</tr>
<tr>
<td>Psychology</td>
<td>118</td>
</tr>
<tr>
<td>Secretarial Training</td>
<td>119</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>120-136</td>
</tr>
<tr>
<td>Anthropology</td>
<td>121</td>
</tr>
<tr>
<td>Economics and Commerce</td>
<td>122</td>
</tr>
<tr>
<td>Geography</td>
<td>128</td>
</tr>
<tr>
<td>History</td>
<td>130</td>
</tr>
<tr>
<td>Political Science</td>
<td>132</td>
</tr>
<tr>
<td>Sociology</td>
<td>134</td>
</tr>
<tr>
<td>Speech Arts</td>
<td>136</td>
</tr>
<tr>
<td>Directory</td>
<td>140</td>
</tr>
<tr>
<td>Index</td>
<td>147</td>
</tr>
</tbody>
</table>
### CALENDAR 1940-1941

**SUMMER SESSION, 1940**

Term I, six weeks, June 17-July 26.
Term II, three weeks, July 29-August 17.

**FALL SEMESTER, 1940-1941**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 2</td>
<td>Applications for admission for the Fall semester must be filed on or before this date.</td>
</tr>
<tr>
<td>September 6, 7</td>
<td>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.</td>
</tr>
<tr>
<td>September 10</td>
<td>Orientation Program for entering Freshmen. Attendance required. Program begins at 8:00 A.M. and lasts throughout the entire day. Pre-registration of Freshmen begins.</td>
</tr>
<tr>
<td>10:00-11:00 A.M.</td>
<td>College Aptitude Test.— Required of all entering students.</td>
</tr>
<tr>
<td>1:00-4:00 P.M.</td>
<td>Fundamentals Tests.— Required for admission to Upper Division Teacher Training. Should be taken during Sophomore year when possible.</td>
</tr>
<tr>
<td>September 11</td>
<td>Registration and payment of fees.</td>
</tr>
<tr>
<td>September 12</td>
<td>Registration and payment of fees.</td>
</tr>
<tr>
<td>November 11</td>
<td>Armistice Day Holiday.</td>
</tr>
<tr>
<td>November 21, 22</td>
<td>Thanksgiving Recess.</td>
</tr>
<tr>
<td>December 13</td>
<td>Last day before Christmas Recess begins.</td>
</tr>
<tr>
<td>January 2</td>
<td>Classwork resumes.</td>
</tr>
<tr>
<td>January 29-February 5</td>
<td>Mid-Year Examinations.</td>
</tr>
</tbody>
</table>
SPRING SEMESTER, 1940-1941

January 27  Applications for admission for the Spring semester must be filed on or before this date.

February 10  Orientation Program for entering Freshmen. Attendance required. Program begins at 8:00 and lasts throughout the entire day. Pre-registration of Freshmen begins.

10:00-11:00 A.M. College Aptitude Test.—Required of all entering students.

1:00-4:00 P. M. Fundamentals Tests.—Required for admission to Upper Division Teacher Training. Should be taken during Sophomore year when possible.

February 11  Registration and payment of fees.

February 12  Instruction begins—Late registration fee becomes effective.

April 11  Holiday—Good Friday.

April 27  Founder’s Day.

May 30  Holiday.

June 5-June 12  Final Examinations.

June 13  Annual Commencement.

SUMMER SESSION, 1941

Term I, six weeks, June 23-August 1.

Term II, three weeks, August 4-August 23.

THE COLLEGE

Historical Sketch

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

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

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

In September, 1925, the college entered upon its third phase when it became, by legislative enactment, the San Diego State College. This change in status permitted the college to drop the requirement in education courses from the curricula previously known as presecondary and to convert them into liberal arts curricula leading to the A.B. degree with any one of the sixteen majors enumerated above.

Location and Environment

Renowned as a winter resort with a mild but invigorating climate, San Diego has become equally famous for its cool summers. High cultural standards in art, music, literature and science create a stimulating environment for a college. Many of these advantages are to be found in the heritage resulting from the expositions of 1915-16 and 1935-36, including the buildings themselves, which portray the best types of Spanish colonial art and architecture. Housed in these buildings are the Fine Arts Gallery, exhibits in anthropology, natural history, and American archaeology which are in many respects unsurpassed. The
outdoor organ, the Ford Bowl, and the horticultural gardens make Balboa Park, in which all these facilities are located, world renowned. The Scripps Institute of Oceanography, operated by the University of California at La Jolla, gives opportunity for important cooperation in the biological sciences.

Buildings and Equipment
On February 1, 1931, the college was moved to the new campus, located one mile north of the city's principal east-west boulevard, El Cajon Avenue. The buildings are of Spanish-Moorish architecture which is well suited to the landscape and climate of this region. They include the Academic Building, which houses lecture halls, classrooms and administrative offices; the Science Building; the Library, the Little Theater; the Campus Elementary School; Scripps Cottage (a social club house for women students); the Cafe and Book Store; and the Physical Education Building, a structure with adequate facilities for both men and women. The gymnasium contains a very fine basketball floor with stands that will accommodate 1500 spectators. A fine concrete stadium, constructed in a natural site, has a seating capacity that is adequate for present needs. Ultimately it will accommodate approximately 45,000 people.

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

By arrangement with the San Diego City Schools, practice teaching is provided in the Euclid elementary school for one-half day throughout a semester, and a somewhat similar arrangement exists at the Woodrow Wilson Junior High School for students who are preparing to teach junior high and special secondary school subjects. Students preparing to teach only special secondary school subjects may be assigned to one of the senior high schools.

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

The Campus Elementary School Library, representing a collection of 9000 volumes possesses equipment and building facilities that are unique.

Living Accommodations
The college does not maintain dormitories since nearly all of the students live with parents or guardians. Living arrangements for students whose homes are not in San Diego or within commuting distance are made through the offices of the Dean of Women or the Dean of Men. All women students are urged to live in the residence hall adjoining the campus. Careful consideration is given to study conditions, healthy living and adequate social opportunities. Room and board may be secured for as little as $160.00 per semester, payable in four installments. Opportunities to reduce this figure by working a few hours each week are occasionally available. Reservations should be made in advance through the Office of the Dean of Women. Where students find other accommodations more desirable, written permission from parents must be secured and filed with the Dean of Women.

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

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

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

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

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

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

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

Teacher Placement: Dr. Raymond C. Perry.

Commercial and Industrial Placement: Mrs. Frances Torbert.

N. Y. A.: Miss Betty Jeter.
Alumni Association

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

FEES AND EXPENSES

Probable Expenses for One Semester

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

A Partial Estimate of Expenses

One Semester

<table>
<thead>
<tr>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fees and Deposits</td>
<td>$20.00</td>
</tr>
<tr>
<td>Books</td>
<td>12.00</td>
</tr>
<tr>
<td>Board and Room</td>
<td>125.00</td>
</tr>
<tr>
<td>Transportation</td>
<td>10.00</td>
</tr>
<tr>
<td>Lunches (daily in cafe)</td>
<td>35.00</td>
</tr>
<tr>
<td>Organizations</td>
<td></td>
</tr>
<tr>
<td>Fraternity</td>
<td></td>
</tr>
<tr>
<td>Initiation and pin</td>
<td>$16.50</td>
</tr>
<tr>
<td>Dues and Assessments</td>
<td>5.50</td>
</tr>
<tr>
<td>Sorority</td>
<td></td>
</tr>
<tr>
<td>Initiation and pin</td>
<td>16.00</td>
</tr>
<tr>
<td>Dues and Assessments</td>
<td>8.00</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>5.00</td>
</tr>
</tbody>
</table>

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

List of Fees and Deposits (Subject to Revision)

Enrollment Fees and Deposits

Payable at Time of Registration

By all students:

Tuition:

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident students</td>
<td>$6.50</td>
</tr>
<tr>
<td>Limited students (5 units or less)—per unit</td>
<td>2.50</td>
</tr>
<tr>
<td>Nonresident students—1st semester</td>
<td>75.00</td>
</tr>
<tr>
<td>2d and subsequent semesters</td>
<td>37.50</td>
</tr>
</tbody>
</table>

Auditors pay same fees as students enrolled for credit.

See page 18 for definition of residence for fee-paying purposes.
ADMISSION AND REGISTRATION

General Admission Requirements

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

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

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

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

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

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

Admission with Advanced Standing Credit earned in recognized institutions of collegiate grade will be evaluated and advanced standing allowed on the basis of the evidence submitted. Credit toward the fulfillment of graduation requirements will be allowed only in so far as the student has met the standards and requirements of this institution.

* Grades of A or B or the equivalent.
Applicants for advanced standing must show an average grade of C or better in all college work previously undertaken. No applicant may disregard his collegiate record and apply for admission with freshman standing.

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

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

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

Registration

Registration for the fall semester of 1940-41 will take place on September 16, and for the spring semester on February 10. Candidates for admission may obtain an application blank from the Registrar which must be filed, with complete transcripts of record, two weeks before registration. See calendar on page 7.

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

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

Tests Required at Registration Time and Later

1. A physical examination is required of all students upon entering the college. Appointments for this examination are made during the orientation program.

2. All entering students are required to take the College Aptitude Test. Exceptions may be made for students who register for five units of work or less, for former graduates of this college, and for graduates of approved four-year colleges.

3. All entering students who are not transferring with advanced standing must take a High School Achievement Examination, a Reading Test, and a standard English Examination.

4. The Subject A Test (English Composition) is required of all entering students. English LIA must be taken by all students whose tests indicate that they are not qualified for English 1B, even though they may not intend to enroll in English 1B. No student may enroll for his third semester of attendance unless he has qualified for English 1B or is enrolled in English LIA. Exceptions may be made for students transferring credit in English from other colleges.

5. Passing the Fundamentals Test in reading, spelling, arithmetic and handwriting, and a Speech Test are prerequisites for admission to upper division courses in teacher training curricula. Students should take these tests at the beginning of their sophomore year in order that they may have sufficient time to make up deficiencies, if any exist, before applying for admission to the upper division of teacher training curricula. Exceptions may be made for former graduates of this or other California State teacher training institutions who have been teachers in service.

Late Registration

A student who registers after the first week of the semester is subject to a limitation of his program. A fee of one dollar must be paid for registration after the regular registration period and the instructor’s approval must be secured for each course entered after the first week of the semester.

Changes in Registration

Petitions for changes in program may be secured at the Registrar’s office. A statement regarding withdrawals from class is to be found on page 20.

Auditors

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

Loans and Scholarships

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

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

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

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

Concerning study lists and personal problems of two-year (Junior College) students—Dean of Junior College Guidance.

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

Concerning health and physical condition—The Health Department.

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

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

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

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

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

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

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

Classification
Full-time students are those students who have complied with the requirements for admission and are registered in more than 5 units of work. Full-time students are expected to carry 12 units of work unless Limited students are partial course students who, for adequate reasons, have been permitted to register for 5 units of work or fewer.

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

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

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

Class. For convenience in administration, students who have completed 0 to 29 units of work are classified as freshmen; 30 to 50 units as sophomores; 60 to 80 units as juniors; and more than 80 units as seniors.

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

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

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

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

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

Units of Work and Study—Lists Limits
A unit of credit represents approximately three hours of actual work per week throughout one semester. It represents one hour of lecture or recitation combined with two hours of preparation, or in the case of laboratory credit, three hours of laboratory or field work.
Sixteen units in addition to physical education (16½ units) constitute a normal semester's program for all students. Entering students are not permitted to enroll for more than 17 units,* and all other students are limited to 18 units.*

Even though a student has carried a heavier program, he may not ordinarily apply more than 16 units toward graduation. Certain exceptions to this rule exist where the student has successfully carried at least 12 units during the preceding semester: 1) 17 units* will be credited toward graduation if the student has maintained an average of not less than 1.5 grade points during that semester, and 2) 18 units* will be credited if a grade point average of at least 2.0 has been maintained. Any course in which a student received a passing grade may be used in the satisfaction of course requirements, even though the credit for such a course is in excess of the units credited for graduation.

Credit for a program that does not conform to the above regulations can be obtained only through a petition addressed to the Scholarship Committee. No student will be permitted to register for less than 12 units without the approval of the Dean of Liberal Arts or the Dean of Education.

Probation and Disqualification

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

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

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

Withdrawals from Class

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

*In addition to physical education.

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

Transcripts of Record

Students may secure one transcript of record without fee. Thereafter, requests for a transcript should be accompanied by a transcript fee of fifty cents. Once a student has matriculated in this institution, transcripts of record from other schools will not be returned or copies of them made.

Eligibility for Practice Teaching

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

The Honors Group

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

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

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

Students who wish to apply for entrance in the Honors Group may do so by filing out cards to be obtained from their major departments. The applications should be filed with the chairman of the major department not later than a week after registration opens. Units earned by students doing individual study under this plan will be recorded under the symbol I 16 and will be subject to the formulated rules dealing with limitations of student load.
The Degree with Honors

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

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

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

Examinations

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

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

Students shall pay a special examination fee of fifty cents at the business office for every special examination given. The instructor shall give such examination only when the student presents a receipt showing that the fee has been paid.

Extension Courses

An extension program covering a wide range of offerings is made available each semester. Members of the regular college faculty and others expert in special fields instruct extension classes. The extension program is designed to meet the needs of San Diego and neighboring communities for courses on the college level that are not available on the campus, or 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 $1.00 per unit for the year 1940-1941.

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

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 total of such acceptable credit to twelve units.

(22)
Foreign Languages  At least 15 units in not more than two languages are required in the lower division, except that only 10 units in a modern language are required in the commerce major and no language is required in teacher training. Each year of acceptable high school work in a foreign language will be counted in satisfaction of 5 units of this requirement. Not less than two high school year-courses is acceptable in any language except Latin, in which a year-course is permissible.

Social Sciences  Fourteen units chosen from two or more departments are required in this field. All students must present credit for Social Science IA or for an acceptable equivalent. Additional lower division courses to meet the social science requirement must be chosen from the following list and all except teacher training students must include one of the year courses marked with an asterisk: Anthropology 50A-50B*, 54, 55; Economics IA-IB*, 18A-18B; Geography 2; History 4A-4B*, 8A-8B*; Political Science IA-IB*, 71A-71B*; Social Science 1B; Sociology 50A-50B*.

Two semesters of fourth year high school courses in the fields of history, political science, sociology, and economics taken with grades not lower than C may be used to satisfy three units of the social science requirement. A maximum of two units of the social science requirement may be chosen from upper division courses if high school senior courses have been used to satisfy the requirement, otherwise a maximum of five units may be counted.

Natural Sciences  Fourteen units chosen from courses representing each of the following groupings are required:

(a) Biology 1 or a year course in high school or college biology, botany, physiology or zoology.
(b) Physical Science IA or IB or a year course in high school or college chemistry or physics.
(c) Additional lower division courses to meet the natural science requirement must come from the following list and must include one of the laboratory courses marked with an asterisk. High School courses: a maximum of two years (6 units) of third and fourth year courses in botany, chemistry, physics, physiology, zoology and advanced biology taken with grades not lower than C may be used to satisfy the natural science requirement. College courses: Astronomy 1, 9, 2; Biology 1, 10A-10B; Botany 2A*, 2B*; Chemistry 1A*, 1B*, 2A-2B*, 7A-7B*, 8A-8B*; Geology 1A, 1B*, 2A, 2B; Physical Science IA, 1B; Physics 2A-2B, 3A-3B*, 1A-1B*, 1C-1D*; Zoology 1A*, 1B*.

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

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

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

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

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

Latin: Two years of high school courses in Latin.

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

Philosophy: 5A-5B.

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

Lower Division Preparation for the Major  See description of requirements for teaching majors on page 29. Specific requirements for the majors in the liberal arts curricula are listed in connection with the descriptive list of courses in each major field (see pages 99 to 139).

(24)
Specific Upper Division Requirements for the Liberal Arts Curricula

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

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

UPPER DIVISION

Subject Matter Requirements

Political Science 101
First minor (minimum in upper division courses)
Second minor (minimum in upper division courses)
Major (upper division courses)

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

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

A minor consists of at least twelve units of work completed in one of the above fields of study. It is required that at least six of these units must be earned in upper division courses. The entire requirement for a minor may be met with upper division courses provided these courses have no lower division prerequisites. Prerequisites for each course are listed among the course descriptions on pages 69 to 139.

Minor in Education A student who desires to satisfy the undergraduate requirements for the general secondary teaching credential will minor in education. He should include in his program a major in a subject of his choice and a minor in the field. In order to conform to the usual university requirements, this minor should include Education 102A-102B (or Education 130, and Psychology 102).

Majors

The specific requirements for each major are listed at the beginning of each departmental division among the description of courses. (See pages 69 to 139.) The student is advised to choose his major as early in his college course as practicable so that he may be able to plan his work according to the major requirements. Failure to meet the lower division requirements of the major department before the junior year may make it impossible to satisfy the upper division requirements within the normal period of two years.

Limited Electives

A total of not more than 12 units of limited and vocational courses listed below will be counted toward junior standing or the A.B. degree in Liberal Arts; Art L7, L14A; Accounting L15A, L15B, L16A, L16B, L65A, L65B; Business Economics L10A-L10B; Economics L129, L163; Education, all courses except those listed as available for credit toward a minor (see Education minor above); Engineering L22, L23; English L1A, L8; Journalism L63A, L63B, L63A, L63B; Library Science L10; Merchandising, all courses; Music L1A, L2A, L3A, L6A, L7A, L16-A-B-C-D, L17A-B-C-D; Library Science L10; Merchandising, all courses; Music L1A, L2A, L3A, L6A, L7A, L16-A-B-C-D, L17A-B-C-D; Library Science L10; Merchandising, all courses; Music L1A, L2A, L3A, L6A, L7A, L16-A-B-C-D, L17A-B-C-D; Physical Education, all courses beyond the requirements specified in the curricular patterns except 90, 91, 101, 104A, 104B, 170; Secretarial training, all courses. All courses which are offered specifically to students taking two-year completion courses leading to the Associate of Arts degree are classified as limited electives. See definition of Two-year students, page 19.

Professional and Preprofessional Courses. See pages 64 to 68.
Specific Upper Division Requirements for the Teacher Training Curricula

Admission to the Teacher Training Curriculum: Admission to the college does not imply that the student will be admitted to the teacher training curriculum. No student intending to enroll in the teacher training curriculum may enroll in an upper division course in education before being admitted to teacher training. Any exception to this rule must have the written approval of the Dean of Education. Students who have been in regular attendance at the college should make application for admission to the teacher training curriculum during the final semester of their sophomore year. Students who have completed three or more semesters of work in another college, upon transferring to San Diego State College, should make application as soon as they can meet the preliminary requirements. It will be advantageous for transfer students to present themselves for the necessary tests given during the orientation period preceding the enrollment in the college. The preliminary requirements which must be met before making application are:

1. A satisfactory score in a college aptitude test taken at the college. (See college calendar for date of test.)
2. Evidence of satisfactory ability in arithmetic, handwriting, reading and spelling indicated by having passed the fundamentals test. (See college calendar for date of test.)
3. Assurance of correct speech habits and voice control by having satisfactorily completed a course in corrective speech or by having passed a speech test given by the college.
4. Assurance of physical fitness by having passed a prescribed examination given by one of the college physicians.
5. If the student is to be a candidate for one of the special secondary credentials, he must furnish a recommendation from the chairman of that department stating that the student has ability and shows promise of teaching success in his field and that the department looks with favor upon his application.
6. The completion of the first two years of a given curriculum, or its equivalent, with a scholarship grade of C or better.

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

Advanced Standing in Teacher Training: A maximum of 18 units in such work was taken more than five years before entering upon the degree record at this college (date of first work taken after an evaluation) will be allowed 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 at other colleges or elsewhere must be approved by an official adviser or the Registrar (for those taken elsewhere) in order to be credited toward meeting degree requirements.

Teaching Major Defined: A teaching major consists of a minimum of twenty-four units in a field other than education, at least twelve of which must be in the upper division. A C average in scholarship is required in all upper division courses in the field of the teaching major. A major field of study in the fields of secondary school credential varies from twenty-four to forty units as specified in the requirements for the various curricula.

Teaching majors may be established in the following fields: English, foreign languages, general science, mathematics and social sciences (anthropology, economics, geography, history, political science) and in the special secondary school credential fields of art, business education, music, physical education, and speech arts.

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

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

Teaching Major in Social Science: Candidates for a teaching major in the field of the social sciences are required to include in their programs a year course in modern history and a concentration of twelve units at least six of which are upper division, in one major subject (economics, geography, history, political science). See definition of teaching majors.

The following courses may not be applied to the teaching major in the field of the social sciences: Economics 14A-14B, 18A-18B, 140, 100A-100B, 161, 162, 163, 164, 165; and all courses in merchandising.

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

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

Teaching Minor in Music: Candidates for the teaching minor in music are required to take music aptitude tests at the time the minor is chosen and to enroll in at least one music activity each semester. In special cases this requirement may be waived by petition to the Music Department.
Applicants for music minors must maintain a grade average of C in all music courses. To Music 1A and 7A, required for the elementary credential, the following twelve units are added for the music minor. In the lower division, with the proper regard for course sequences, six units may be chosen from the following courses: Music 1B-1C-1D; 2A; 3A; 4A-4B; 6A; 8A-8B; 16; 17; 18; Aesthetics IA-IB. In the upper division, not less than six units may be chosen from the following courses: Music 103A-103B; 105A; 116; 117; 118; 121A; Aesthetics 102A-102B.


Candidates for a teaching minor in physical education for men must show credit for Physical Education L1A, L1B, L1C, L1D, L53, and L62A in the lower division; and six units elected from Physical Education L156A, L156B, 161, L106, or L170 in the upper division.

Major and Minor Credential Requirements

1. The junior high school credential: A teaching major and a teaching minor in subjects taught in a junior high school are required. The combination of a special secondary school credential with the junior high school credential requires the completion of another teaching major than that required for a special secondary school credential.

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

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

4. Credit limitations: The State Board of Education has placed a limitation of a maximum of forty units of credit in one subject matter field that may be applied toward the minimum of one hundred and twenty-four units required for the A.B. degree.

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

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

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

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

A. The college offers curricula leading to the A.B. degree with the following teaching credentials:

1. Elementary School Credential authorizing the holder to teach any or all subjects in any grade of any elementary school in California.

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

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

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

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

6. Special Secondary Credential in Physical Education authorizing the holder to teach physical education in any grade of the public schools of California.

7. Special Secondary Credential in Speech Arts authorizing the holder to teach public speaking, oral expression and dramatic art in the public schools of California.

B. The college offers the following credentials to persons meeting the qualifications designated for each:

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

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

In the case of students seeking more than one teaching credential, the curriculum for each credential must be completed in full, with only such exceptions as are indicated in the requirements. For each credential in addition to one, at least twelve additional units of credit must be earned, this work to be in electives in nonprofessional fields only, after the basic curriculum requirements have been satisfied.

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

Limited Electives

Credit for limited and vocational courses will be allowed in fulfillment of the requirements for the A.B. degree whenever they are required in any credential pattern completed by the student. A maximum of six units of credit in the following courses may be allowed to fulfill the requirements of any other credential pattern only after the student has received permission from the Dean of Education: Art 17, 1L4A; Economics 1L0A, 1L0B, 1L5A, 1L5B, 1L6A, 1L6B, L65A, L65B, L129, L139; Engineering 122, 123; English 1L1A, 1L3; Journalism L53A, L53B, L53A, L53B; Library Science 1L0; Merchandising, all courses; Music L1A, L2A, L3A, L6A, L7A, L16A-B-C-D, L17A-B-C-D, L18A-B-C-D, L28A-L28B, L16A-B-C-D, L17A-B-C-D, L18A-B-C-D; Physical Education, all activity courses beyond the requirements specified in curricular patterns; Secretarial Training, all courses.

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

Curricula Leading to Teaching Credentials

All candidates in teacher training curricula should observe carefully the requirements for admission to teacher training and be prepared to meet them at the end of the sophomore year. Transfer students should meet these requirements as soon as possible after enrolling in the college. See college calendar for dates when the fundamentals test will be given and page 28 in this bulletin for requirements for admission to teacher training.

A.B. Degree With Elementary School Credential

First Semester—— FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 6A, Structure</td>
<td>2</td>
</tr>
<tr>
<td>Biology 10A, Science of Life</td>
<td>3</td>
</tr>
<tr>
<td>Geography 1, Elements (Natural Science)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education, Freshman Activities</td>
<td>2</td>
</tr>
<tr>
<td>Electives *</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>13</td>
</tr>
</tbody>
</table>

Second Semester——

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 10B, Science of Life</td>
<td>3</td>
</tr>
<tr>
<td>English 1B, 2, 3, 30A, 30B, 52A, 52B, 56A, 56B</td>
<td>3</td>
</tr>
<tr>
<td>Geography 2, Regions (Social Science)</td>
<td>2</td>
</tr>
<tr>
<td>Music L1A, Music Reading and Ear-training</td>
<td>1</td>
</tr>
<tr>
<td>Physical Education, Freshman Activities</td>
<td>3</td>
</tr>
<tr>
<td>Electives *</td>
<td>5</td>
</tr>
<tr>
<td>Total</td>
<td>32</td>
</tr>
</tbody>
</table>

First Semester—— SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 6B, Structure</td>
<td>2</td>
</tr>
<tr>
<td>English (selected from 1B, 1C, 2, 3, 30A, 30B, 52A, 52B, 56A, 56B, unless taken in freshman year)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education, Sophomore Activities</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>13</td>
</tr>
</tbody>
</table>

Second Semester——

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education L53—Physical Education in the Elementary School</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>22</td>
</tr>
</tbody>
</table>

Either Semester——

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 61A, Elementary Crafts</td>
<td>2</td>
</tr>
<tr>
<td>Art 61B, Elementary Crafts</td>
<td>2</td>
</tr>
<tr>
<td>Music L7A, Music Materials for the Elementary Schools</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 1A, General</td>
<td>3</td>
</tr>
<tr>
<td>Social Science 1A, Pol. Soc. and Econ. Problems</td>
<td>3</td>
</tr>
<tr>
<td>Electives to meet requirements in Natural Science, Social Sciences, and minors *</td>
<td>11-14</td>
</tr>
<tr>
<td>Total</td>
<td>32</td>
</tr>
</tbody>
</table>

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

3—81240
### Junior Year

**First Semester**
- Education 102A, The Psychological Foundations of Education... 3
- Education L147, Education Practicum—Lower Levels... 12

**Second Semester**
- Education 102B, The Psychological Foundations of Education... 3
- Education L148, Education Practicum—Upper Levels... 12

**Senior Year**
- Education L116, Practice Teaching... 6

**Either Semester**
- Education 115 A, The Principles and Functions of Education... 4
- Electives including two minors and political science requirement... 20

**SUMMARY**
- Art 6A, 6B, 61A, 61B... 8
- Education 102A-102B, 115A, L116, L147, L148... 40
- English... 6
- Health Education 1 or 2... 2
- Music L1A, L7A... 5
- Natural Sciences (incl. Biology 10A-10B and Geog. 1)... 14
- Physical Education L1A-B-C, L53... 4
- Political Science 101... 2
- Psychology 1A... 3
- Social Sciences (including Social Science 1A and Geography 2)... 14
- Electives, including two teaching minors... 20

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

2 See page 24.

### Sophomore Year

**First Semester**
- English (selected from 2, 3, 30A, 30B, 52A, 52B, 56A, 56B)... 3
- Social Science 1A, Pol., Soc, and Econ. Problems... 3
- Electives, including major and minor (for the year)... 22-25

**Second Semester**
- Physical Education, Sophomore Activities... 4

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

### Junior Year

**First Semester**
- Education L100A, Methods and Materials of Instruction... 3
- Education 102A, The Psychological Foundations of Education... 3
- Political Science 101, American Institutions (or substitute)... 2

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

2 Depending on result of Subject A test.

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

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

5 If 4 units in minor taken in freshman year, none needed in sophomore year.

6 Not required if student is meeting requirements for elementary credential also.
Second Semester—
Education L100B, Methods and Materials of Instruction .......... 3
Education 102B, The Psychological Foundations of Education .......... 3
Education L116, Practice Teaching ................................ 3
Either Semester—
Health Education 151 ............................................. 2
Electives, including major and minor (for the year) ....................... 11

SENIOR YEAR
First Semester—
Education L15A, The Principles and Functions of Education .......... 4
Education L116, Practice Teaching ................................ 3
Second Semester—
Education L15B, The Principles and Functions of Education .......... 4
Either Semester—
Electives, including major and minor (for the year) ..................... 19

SUMMARY
English ........................................................................ 6
Health Education 1 or 2; 151 ......................................... 4
* Natural Sciences (including Biology 103A-103B and Geo. 1) ........ 14
Physical Education ..................................................... 2
Political Science 101 .................................................. 2
Psychology 1A ......................................................... 3
* Social Sciences (including Social Science 1 and Geography 2) ........ 14
Electives, including teaching major and minor ............................ 53
124

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

LOWER DIVISION

Aesthetics 50, History and Appreciation of Art ......................... 2
Art 6A-6B, Structure .................................................. 4
Art 61A, 61B, Fine and Industrial Arts, Elementary Crafts ............. 4
Education L19, Art in the Elementary School .......................... 2
English L1A; 1B; 2A, 2B, 3A, 3B, 30A, 30B, 52A, 52B, 56A, 56B ....... 6
Health Education 1 or 2 ............................................. 2
* Natural Sciences ...................................................... 8
Physical Education, Freshman and Sophomore Activities .............. 2
Psychology 1A, General .............................................. 3
* Social Sciences (including Social Science 1A) ....................... 9
Electives, including additional art for major and courses for teach-
ing minor* ......................................................... 11

11-22

UPPER DIVISION

Aesthetics 150 .......................................................... 2
Art 105A-105B ......................................................... 4
Art 112A-112B ......................................................... 6
Art 112A (unless 52A was taken in lower division) ....................... 0
Art 115 ................................................................. 2
Art 116 ................................................................. 2
Art 116A ............................................................... 3
Electives in U. D. Art .................................................. 3
Education L100A-L100B, Methods and Materials of Instruction .... 6
Education L15B, The Principles and Functions of Education ......... 4
Education L116, Practice Teaching (4 units in special field) ........... 6
Political Science 101, American Institutions (or substitute) ............ 2
Electives, including additional art and teaching minor ................ 12

60

SUMMARY

Aesthetics 50, 150 ..................................................... 4
Art major ................................................................ 40
Education ............................................................. 40
English ................................................................. 6
* Natural Sciences .................................................... 14
Physical Education .................................................. 2
Political Science 101, American Institutions ............................ 3
Psychology 1A ....................................................... 3
* Social Sciences (including Social Science 1A) ....................... 14
Electives, including teaching minor ........................................ 15

124

1 Depending on result of Subject A test.
2 Unless minor is English, General Science, or Social Science.
3 Not required if student is meeting requirements for elementary creden-
tial also.
4 Maximum credit allowable in art.
5 See Subject Matter Requirements in the Lower Division.
* See page 24.
A.B. Degree With Special Credential in Business Education. This course leads to the A.B. degree and to the Special Secondary Credential in Business Education, which entitles the holder to teach business subjects in senior high and junior high schools.

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

**Accounting and Secretarial Subfields**

<table>
<thead>
<tr>
<th>Subfield</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOWER DIVISION</td>
<td></td>
</tr>
<tr>
<td>Economics 1A-1B, Principles</td>
<td>6</td>
</tr>
<tr>
<td>Economics 1A-1B, Accounting</td>
<td>6</td>
</tr>
<tr>
<td>Geography 10A-10B, Economic Geography</td>
<td>6</td>
</tr>
<tr>
<td>Natural Science</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education, Freshmen and Sophomore Activities</td>
<td>3</td>
</tr>
<tr>
<td>Health Education</td>
<td>2</td>
</tr>
<tr>
<td>Speech Arts 1A, Fundamentals of Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Social Science 1A, Pol., Soc. and Econ. Problems</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 1A, General</td>
<td>3</td>
</tr>
<tr>
<td>Secretarial Training 1A, Business Mathematics</td>
<td>1</td>
</tr>
<tr>
<td>Secretarial Training 1A-L1B, Typewriting</td>
<td>6</td>
</tr>
<tr>
<td>Secretarial Training 1A-L1B, Stenography</td>
<td>10</td>
</tr>
<tr>
<td>Secretarial Training 1A-L1B, Office Methods and Appliances</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>UPPER DIVISION</td>
<td></td>
</tr>
<tr>
<td>Economics 18A-18B, Commercial Law</td>
<td>6</td>
</tr>
<tr>
<td>Economics 100, or 102 or 111 or 123</td>
<td>3</td>
</tr>
<tr>
<td>Economics 121, Business Administration</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Education L100A-L100B, Methods and Materials of Ed</td>
<td>6</td>
</tr>
<tr>
<td>Education 115B, The Principles and Functions of Ed</td>
<td>3</td>
</tr>
<tr>
<td>Education L116, Practice Teaching</td>
<td>6</td>
</tr>
<tr>
<td>Special Methods Courses as prescribed by major department</td>
<td>6</td>
</tr>
<tr>
<td>Political Science 101, American Institutions (or substitute)</td>
<td>2</td>
</tr>
<tr>
<td>Minor</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

**General Business Subfield**

<table>
<thead>
<tr>
<th>Subfield</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOWER DIVISION</td>
<td></td>
</tr>
<tr>
<td>Economics 1A-1B, Principles</td>
<td>6</td>
</tr>
<tr>
<td>Economics 2, Mathematics of Finance</td>
<td>3</td>
</tr>
<tr>
<td>Economics 1A-1B, Accounting</td>
<td>6</td>
</tr>
<tr>
<td>Economics 18A-18B, Commercial Law</td>
<td>6</td>
</tr>
<tr>
<td>Geography 10A-10B</td>
<td>6</td>
</tr>
<tr>
<td>Merchandising L20, Salesmanship</td>
<td>2</td>
</tr>
<tr>
<td>Merchandising L27, Advertising</td>
<td>3</td>
</tr>
<tr>
<td>Accounting and Secretarial Subfields</td>
<td>60</td>
</tr>
<tr>
<td>Physical Education, Freshman and Sophomore Activities</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 1A, General</td>
<td>3</td>
</tr>
<tr>
<td>Secretarial Training 1A, Business Mathematics</td>
<td>1</td>
</tr>
<tr>
<td>Secretarial Training 1A-L1B, Typewriting</td>
<td>6</td>
</tr>
<tr>
<td>Secretarial Training 1A-L1B, Stenography</td>
<td>10</td>
</tr>
<tr>
<td>Secretarial Training 1A-L1B, Office Methods and Appliances</td>
<td>3</td>
</tr>
<tr>
<td>Electives, including Freshman English</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>64</td>
</tr>
</tbody>
</table>

**UPPER DIVISION**

<table>
<thead>
<tr>
<th>Subfield</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 100, Modern Economic Thought, or a course in Consumer Economics or Economics 102, Social Control and Economic Planning</td>
<td>3</td>
</tr>
<tr>
<td>Economics 121, Business Administration</td>
<td>3</td>
</tr>
<tr>
<td>Economics 135, Money and Banking</td>
<td>3</td>
</tr>
<tr>
<td>Economics 162</td>
<td>3</td>
</tr>
<tr>
<td>Education 100A-100B, Methods and Materials of Instruction</td>
<td>6</td>
</tr>
<tr>
<td>Education 115B, The Principles and Functions of Ed</td>
<td>4</td>
</tr>
<tr>
<td>Education 116, Practice Teaching</td>
<td>6</td>
</tr>
<tr>
<td>Special Methods Courses as prescribed by major department</td>
<td>4</td>
</tr>
<tr>
<td>Economics 194</td>
<td>3</td>
</tr>
<tr>
<td>Health Ed. 1 or 2</td>
<td>2</td>
</tr>
<tr>
<td>Political Science 101, American Institutions (or substitute)</td>
<td>2</td>
</tr>
<tr>
<td>Electives (including a minimum of 5 units in the upper division, 3 units of which must be in commerce)</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

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

By electing Merchandising L25, Salesmanship 2 units; Merchandising L27, Advertising 2 units; Merchandising L26, Applied Salesmanship; Economics authorization.

3 See page 24. Students deficient in high school natural science will have to make up such deficiency in college. See subject matter requirements in the Lower Division.
A.B. Degree With Special Credentials in Music. Students intending to become applicants for this credential must show evidence of musical ability, before entering the course. They must be able to play artistically upon the piano, music of the grade to become applicants for this deficiency exists in the field of general musicianship, the student will be required to take either or both of these courses without credit.

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

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

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

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

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

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

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English L1A,1 1B, or 1C</td>
<td>3</td>
</tr>
<tr>
<td>Health Education 1 or 2</td>
<td>2</td>
</tr>
<tr>
<td>History 4A or 5A</td>
<td>3</td>
</tr>
<tr>
<td>Aesthetics 1A</td>
<td>2</td>
</tr>
<tr>
<td>Music 1B</td>
<td>2</td>
</tr>
<tr>
<td>Social Science 1A</td>
<td>3</td>
</tr>
<tr>
<td>Music L18</td>
<td>1</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1B, 1C, 2, 3, 30A, 30B, 52A, 52B, 56A, 56B</td>
<td>3</td>
</tr>
<tr>
<td>Geography 1, Elements (Natural Science)</td>
<td>3</td>
</tr>
<tr>
<td>History 4B or 5B</td>
<td>3</td>
</tr>
<tr>
<td>Aesthetics 1B</td>
<td>2</td>
</tr>
<tr>
<td>Music 1C</td>
<td>2</td>
</tr>
<tr>
<td>Music L1A</td>
<td>1</td>
</tr>
<tr>
<td>Music L18</td>
<td>1</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
</tbody>
</table>

**SECOND SEMESTER—**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1B, 2, 3, 30A, 30B, 52A, 52B, 56A, 56B</td>
<td>3</td>
</tr>
<tr>
<td>Geography 1, Elements (Natural Science)</td>
<td>3</td>
</tr>
<tr>
<td>History 4B or 5B</td>
<td>3</td>
</tr>
<tr>
<td>Aesthetics 1B</td>
<td>2</td>
</tr>
<tr>
<td>Music 1C</td>
<td>2</td>
</tr>
<tr>
<td>Music L1A</td>
<td>1</td>
</tr>
<tr>
<td>Music L18</td>
<td>1</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 4A</td>
<td>3</td>
</tr>
<tr>
<td>Music 1D</td>
<td>2</td>
</tr>
<tr>
<td>Music L18</td>
<td>6</td>
</tr>
<tr>
<td>*Natural Science</td>
<td>3</td>
</tr>
<tr>
<td>Geography 2, Regions</td>
<td>1</td>
</tr>
<tr>
<td>Music L2A</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
</tbody>
</table>

**SECOND SEMESTER—**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 4B</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 1A</td>
<td>3</td>
</tr>
<tr>
<td>*Natural Science</td>
<td>3</td>
</tr>
<tr>
<td>Music L18</td>
<td>3</td>
</tr>
<tr>
<td>Education L17</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
</tbody>
</table>

**FIRST SEMESTER—**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music L16</td>
<td>1</td>
</tr>
<tr>
<td>Music L105A</td>
<td>2</td>
</tr>
<tr>
<td>Education L145</td>
<td>1</td>
</tr>
<tr>
<td>Music L117 or L117</td>
<td>3</td>
</tr>
<tr>
<td>Education L102A</td>
<td>3</td>
</tr>
<tr>
<td>Education L100A</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Minor</td>
<td>1</td>
</tr>
</tbody>
</table>

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Political Science 101</td>
<td>3</td>
</tr>
<tr>
<td>Music 105B</td>
<td>1</td>
</tr>
<tr>
<td>Music L117</td>
<td>3</td>
</tr>
<tr>
<td>Education L300B</td>
<td>3</td>
</tr>
<tr>
<td>Education L102B</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Minor</td>
<td>18</td>
</tr>
</tbody>
</table>

**SECOND SEMESTER—**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 119</td>
<td>2</td>
</tr>
<tr>
<td>Music 107A</td>
<td>1</td>
</tr>
<tr>
<td>Music L117</td>
<td>2</td>
</tr>
<tr>
<td>Aesthetics 102A</td>
<td>6</td>
</tr>
<tr>
<td>Education L116, Practice Teaching</td>
<td>2</td>
</tr>
</tbody>
</table>

**FIRST SEMESTER—**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Music Activities</td>
<td>5</td>
</tr>
</tbody>
</table>


---

1 Depending on result of Subject A test.

---

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 4A</td>
<td>3</td>
</tr>
<tr>
<td>Music 1D</td>
<td>2</td>
</tr>
<tr>
<td>Music L18</td>
<td>6</td>
</tr>
<tr>
<td>*Natural Science</td>
<td>3</td>
</tr>
<tr>
<td>Geography 2, Regions</td>
<td>1</td>
</tr>
<tr>
<td>Music L2A</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
</tbody>
</table>

**SECOND SEMESTER—**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 4B</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 1A</td>
<td>3</td>
</tr>
<tr>
<td>*Natural Science</td>
<td>3</td>
</tr>
<tr>
<td>Music L18</td>
<td>3</td>
</tr>
<tr>
<td>Education L17</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
</tbody>
</table>

**FIRST SEMESTER—**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music L16</td>
<td>1</td>
</tr>
<tr>
<td>Music L105A</td>
<td>2</td>
</tr>
<tr>
<td>Education L145</td>
<td>1</td>
</tr>
<tr>
<td>Music L117 or L117</td>
<td>3</td>
</tr>
<tr>
<td>Education L102A</td>
<td>3</td>
</tr>
<tr>
<td>Education L100A</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Minor</td>
<td>1</td>
</tr>
</tbody>
</table>

**SECOND SEMESTER—**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Political Science 101</td>
<td>3</td>
</tr>
<tr>
<td>Music 105B</td>
<td>1</td>
</tr>
<tr>
<td>Music L117</td>
<td>3</td>
</tr>
<tr>
<td>Education L300B</td>
<td>3</td>
</tr>
<tr>
<td>Education L102B</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Minor</td>
<td>1</td>
</tr>
</tbody>
</table>

**FIRST SEMESTER—**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 119</td>
<td>2</td>
</tr>
<tr>
<td>Music 107A</td>
<td>1</td>
</tr>
<tr>
<td>Music L117</td>
<td>2</td>
</tr>
<tr>
<td>Aesthetics 102A</td>
<td>6</td>
</tr>
<tr>
<td>Education L116, Practice Teaching</td>
<td>2</td>
</tr>
</tbody>
</table>

**SECOND SEMESTER—**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Music Activities</td>
<td>5</td>
</tr>
</tbody>
</table>

---

* See Subject Matter Requirement in the Lower Division.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 121</td>
<td>2</td>
</tr>
<tr>
<td>Music 106</td>
<td>2</td>
</tr>
<tr>
<td>Music 120</td>
<td>1</td>
</tr>
<tr>
<td>Music L117</td>
<td>1</td>
</tr>
<tr>
<td>Aesthetics 102B</td>
<td>2</td>
</tr>
<tr>
<td>Education 115B</td>
<td>4</td>
</tr>
<tr>
<td>Education L116, Practice Teaching</td>
<td>3</td>
</tr>
<tr>
<td>*Music Activities</td>
<td>1</td>
</tr>
</tbody>
</table>

### SUMMARY

<table>
<thead>
<tr>
<th>Category</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Education</td>
<td>2</td>
</tr>
<tr>
<td>Aesthetics</td>
<td>8</td>
</tr>
<tr>
<td>Education</td>
<td>29</td>
</tr>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>Upper Division Minor</td>
<td>6</td>
</tr>
<tr>
<td>Natural Science</td>
<td>14</td>
</tr>
<tr>
<td>Music</td>
<td>40</td>
</tr>
<tr>
<td>Social Science</td>
<td>14</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
</tbody>
</table>

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

---

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

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

#### MEN

**LOWER DIVISION**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 10A-10B, Science of Life (unless taken as a year course in high school with at least a grade of B)</td>
<td>4-6</td>
</tr>
<tr>
<td>Zoology 1A, General</td>
<td>6</td>
</tr>
<tr>
<td>English L1A, L1B, L2, 50A, 50B, 52A, 52B, 56A, 56B</td>
<td>2</td>
</tr>
<tr>
<td>Health Education</td>
<td>5 or 7</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>5</td>
</tr>
<tr>
<td>Physical Education:</td>
<td>3</td>
</tr>
<tr>
<td>1) L1A-1B, L1C-1D</td>
<td>2</td>
</tr>
<tr>
<td>2) L16, Tennis</td>
<td>3</td>
</tr>
<tr>
<td>3) L53, Physical Education in the Elementary School</td>
<td>4</td>
</tr>
<tr>
<td>4) L65, Playing Rules of Modern Games</td>
<td>1</td>
</tr>
<tr>
<td>5) 72, Principles</td>
<td>2</td>
</tr>
<tr>
<td>6) Sports and Athletics</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 1A, General</td>
<td>3</td>
</tr>
<tr>
<td>Red Cross Swimming Test</td>
<td>1</td>
</tr>
<tr>
<td>Social Sciences, including Social Science 1A, Political, Social and Economic Problems</td>
<td>14</td>
</tr>
<tr>
<td>Speech Arts 1A, Fundamentals of Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 20, Anatomy and Physiology</td>
<td>6</td>
</tr>
<tr>
<td>Electives, including courses to meet minor requirements</td>
<td>64</td>
</tr>
</tbody>
</table>

**UPPER DIVISION**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education L100A-L100B, Methods and Materials of Instruction</td>
<td>6</td>
</tr>
<tr>
<td>Education 102A-102B, The Psychological Foundations of Education</td>
<td>6</td>
</tr>
<tr>
<td>Education 115B, The Principles and Functions of Education</td>
<td>6</td>
</tr>
<tr>
<td>Education L116, Practice Teaching</td>
<td>2</td>
</tr>
<tr>
<td>Health Education 151</td>
<td>2</td>
</tr>
</tbody>
</table>

**Physical Education: Choose four out of the six starred courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>L154, Organ. and Admin. of Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>*L155, Applied Anatomy</td>
<td>2</td>
</tr>
<tr>
<td>L156A-156B, Sports Methods</td>
<td>4</td>
</tr>
<tr>
<td>*L161, Folk Dancing</td>
<td>2</td>
</tr>
<tr>
<td>*L166, Technique of Officiating</td>
<td>2</td>
</tr>
<tr>
<td>*L168, Physiology of Exercise</td>
<td>2</td>
</tr>
<tr>
<td>L189, Technique of Teaching Activities</td>
<td>2</td>
</tr>
<tr>
<td>*L170, Recreational Leadership</td>
<td>2</td>
</tr>
<tr>
<td>*L180, Theory of Coaching Football</td>
<td>2</td>
</tr>
<tr>
<td>Sports and Athletics</td>
<td>2</td>
</tr>
</tbody>
</table>

* Depending on result of Subject A test:
*Men majoring in Physical Education must actively participate in at least three sports each year.
*Unless minor is English, General Science, or Social Science.
†See Subject Matter Requirements in the Lower Division.
### A.B. Degree with the Special Secondary Credential in Speech Arts

This credential will entitle the holder to teach public speaking, oral expression, and dramatic arts in the public schools of the state. Applicants for the credential must maintain a scholarship average of C or better in Speech Arts courses.

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speech Arts 1A-1B or 1C-1D or 60</td>
</tr>
<tr>
<td>Speech Arts 55A-55B or 55C-55D</td>
</tr>
<tr>
<td>Natural Sciences</td>
</tr>
<tr>
<td>Social Sciences</td>
</tr>
<tr>
<td>Electives and Minor</td>
</tr>
<tr>
<td>Psychology</td>
</tr>
<tr>
<td>Health Education</td>
</tr>
<tr>
<td>English L1A, 1B, or 1C and 3 units from 3A-30B, 52A-52B, 56A-56B</td>
</tr>
<tr>
<td>Physical Education L1A, L1B, L1C and L3A or L11A</td>
</tr>
<tr>
<td>Speech Arts 63A-63B</td>
</tr>
<tr>
<td>Aesthetics 1A or 5</td>
</tr>
</tbody>
</table>

### Summary

- **Units**
- **Aesthetics**
- **Education**
- **English**
- **Health Education**
- **Natural Sciences**
- **Psychology**
- **Social Sciences**
- **Speech Arts**
- **Electives, including a teaching minor**

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Education 151</td>
</tr>
<tr>
<td>Education L100A-L100B</td>
</tr>
<tr>
<td>Education 102A-102B</td>
</tr>
<tr>
<td>Education 115B</td>
</tr>
<tr>
<td>Education L116</td>
</tr>
<tr>
<td>Political Science 101</td>
</tr>
<tr>
<td>Teaching minor</td>
</tr>
<tr>
<td>Speech Arts 155A-155B, 156A-156B</td>
</tr>
<tr>
<td>Speech Arts 163</td>
</tr>
<tr>
<td>Speech Arts 150</td>
</tr>
<tr>
<td>Speech Arts 157A or 175</td>
</tr>
<tr>
<td>Electives to include 6 units from P. E. L164A or L162A; Speech Arts 157B; English 152A-152B; Eng. 110, 116B, 117A-B</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
</tr>
<tr>
<td>Health Education</td>
</tr>
<tr>
<td>Natural Sciences</td>
</tr>
<tr>
<td>Physical Education</td>
</tr>
<tr>
<td>Psychology</td>
</tr>
<tr>
<td>Social Sciences (including Social Science 1A and Political Science 101)</td>
</tr>
<tr>
<td>Speech Arts 150</td>
</tr>
<tr>
<td>Speech Arts 157A or 175</td>
</tr>
<tr>
<td>Electives, including teaching minor</td>
</tr>
</tbody>
</table>

### Notes

- See page 24.
Special Credential in Correction of Speech Defects. The credential is available to graduate students who have successfully completed two years of teaching in any field. Specialized courses are required for certification plus a total of 100 hours of clinical experience in the treatment of articulatory and nervous disorders of speech.

THE BACHELOR OF EDUCATION DEGREE

General Requirements

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

Residence Requirements

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

Purpose of the Degree

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

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

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

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

2. Holders of California life diplomas or those who have taught five or more years in the public schools of California.

Nature of Work and Fields of Study

Candidates will take academic courses designed to strengthen them in the fields of knowledge in which their initial training is inadequate. Professional courses in education will be included to qualify candidates to teach the newer curricula by means of the newer methods. All work will as far as possible be provided in classes for mature and experienced teachers.
Each candidate for the Bachelor of Education Degree must include in the last 60 semester hours of credit earned a minimum of six semester hours in each of three of the following six fields of knowledge.

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

Effective Dates of the Bachelor of Education Curriculum

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

Application for Candidacy

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

PROFESSIONAL AND PREPROFESSIONAL CURRICULA

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

The degree curricula in liberal arts may be modified to include the course outlines which follow. For a complete statement of the requirements for the junior certificate and the degree see pages 23 to 27.

Prelegal Curriculum

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

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

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

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>Health Education 1 or 2</td>
<td>2</td>
</tr>
<tr>
<td>*Foreign Languages (if needed to complete requirement)</td>
<td>3</td>
</tr>
<tr>
<td>*Natural Science</td>
<td>3</td>
</tr>
<tr>
<td>*Speech Arts 1A-1B or English elective</td>
<td>3</td>
</tr>
<tr>
<td>Economics 14A-14B</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 1A</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>0-5</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>*Additional Natural Science (if needed to meet requirement)</td>
<td>3</td>
</tr>
<tr>
<td>Economics 1A-1B or Mathematics 3A-3B</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 1A-1B or 7A-71B</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 4A</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>0-6</td>
</tr>
</tbody>
</table>

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 121</td>
<td>3</td>
</tr>
<tr>
<td>Economics 123</td>
<td>3</td>
</tr>
<tr>
<td>Economics 140</td>
<td>3</td>
</tr>
<tr>
<td>Economics elective</td>
<td>3</td>
</tr>
<tr>
<td>History 151A-151B or 175A-175B</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 111 and 113 or 143A-143B</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
</tr>
</tbody>
</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 100</td>
<td>3</td>
</tr>
<tr>
<td>Economics 102 or 111</td>
<td>3</td>
</tr>
<tr>
<td>Economics 190A-190B</td>
<td>3</td>
</tr>
<tr>
<td>*Foreign Language (if needed to complete requirements)</td>
<td>3</td>
</tr>
<tr>
<td>Physics 2A-2B</td>
<td>3</td>
</tr>
<tr>
<td>Physics 3A-3B</td>
<td>3</td>
</tr>
<tr>
<td>*Social Science</td>
<td>3</td>
</tr>
<tr>
<td>*Electives</td>
<td></td>
</tr>
</tbody>
</table>

*See lower division requirements, page 24.

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

2 Recommended electives: English, philosophy, psychology, sociology.

---

**Preoptometry Curriculum**

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

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

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>Health Education 1 or 2</td>
<td>2</td>
</tr>
<tr>
<td>*Foreign Language (if needed to complete requirements)</td>
<td>3</td>
</tr>
<tr>
<td>Physics 2A-2B</td>
<td>3</td>
</tr>
<tr>
<td>Physics 3A-3B</td>
<td>3</td>
</tr>
<tr>
<td>Speech Arts 1A-1B</td>
<td>3</td>
</tr>
<tr>
<td>*Social Science</td>
<td>3</td>
</tr>
<tr>
<td>*Electives</td>
<td></td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 1A-1B</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics 3A-3B</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 1A</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 20</td>
<td>2</td>
</tr>
<tr>
<td>*Electives</td>
<td></td>
</tr>
</tbody>
</table>

**Bonomary Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 100</td>
<td>3</td>
</tr>
<tr>
<td>Economics 102 or 111</td>
<td>3</td>
</tr>
<tr>
<td>Economics 190A-190B</td>
<td>3</td>
</tr>
<tr>
<td>*Foreign Language (if needed to complete requirements)</td>
<td>3</td>
</tr>
<tr>
<td>History 111A-111B or 121A-121B</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 175A-175B</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

*See lower division requirements, page 24.

---

**Premedical Curriculum**

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

A student who is pursuing a four-year premedical curriculum should major in chemistry or zoology in his junior and senior years, and must meet all upper division requirements for the A.B. degree in the Liberal Arts curricula.

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

*See lower division requirements, page 24.
Following is a recommended arrangement of courses:

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>Units</th>
<th>SOPHOMORE YEAR</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>½</td>
<td>Physical Education</td>
<td>½</td>
</tr>
<tr>
<td>Health Education</td>
<td>2</td>
<td>Zoology 1A-1B</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 1A-1B</td>
<td>5</td>
<td>Chemistry 7-8</td>
<td>3</td>
</tr>
<tr>
<td>English 1B and 2 or 3</td>
<td>3</td>
<td>*Social Science Year</td>
<td>3</td>
</tr>
<tr>
<td>*French or German (if needed to meet requirement)</td>
<td>3-5</td>
<td>*Social Science 1A</td>
<td>3</td>
</tr>
</tbody>
</table>

*Electives | 0-2 | *Additional Year Course | 3 |

15 15

JUNIOR YEAR

<table>
<thead>
<tr>
<th>Units</th>
<th>SENIOR YEAR</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Political Science 101</td>
<td>2</td>
<td>Upper division requirements and electives for the major, the minors</td>
</tr>
<tr>
<td>Physics 2A-2B</td>
<td>3</td>
<td>and the degree (see pages 29-27)</td>
</tr>
<tr>
<td>Physics 3A-3B</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Chemistry 105</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Zoology 100</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Zoology 100D</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Zoology 106</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

15 15

Prenursing Curriculum

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

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

* See lower division requirements, page 24.
1 German if the major is Chemistry.
2 Mathematics 1A-1B if the major is Chemistry.

The following is a recommended arrangement of courses:

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>Units</th>
<th>SOPHOMORE YEAR</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>½</td>
<td>Physical Education</td>
<td>½</td>
</tr>
<tr>
<td>Health Education</td>
<td>2</td>
<td>Psychology 1A-1B</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 2A-2B</td>
<td>3</td>
<td>Economics 1A-1B</td>
<td>3</td>
</tr>
<tr>
<td>Bacteriology 1</td>
<td>4</td>
<td>*Social Science 1A</td>
<td>3</td>
</tr>
<tr>
<td>English 1B and 2 or 3</td>
<td>3</td>
<td>*Additional Year Course</td>
<td>3</td>
</tr>
<tr>
<td>*French or German (if needed to complete requirement)</td>
<td>3-5</td>
<td>*Social Science 1A</td>
<td>3</td>
</tr>
</tbody>
</table>

*Electives | 3-5 | 0-2 | 16 16

15 15

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; trigonometry, ½ unit; chemistry, 1 unit; physics, 1 unit; foreign language, 3 or 4 units.

The following arrangement of courses is recommended:

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>Units</th>
<th>SOPHOMORE YEAR</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>½</td>
<td>Physical Education</td>
<td>½</td>
</tr>
<tr>
<td>Health Education</td>
<td>2</td>
<td>Chemistry 7-8</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 1A-1B</td>
<td>5</td>
<td>Physics 2A-2B</td>
<td>3</td>
</tr>
<tr>
<td>Biology 10A-10B</td>
<td>3-4</td>
<td>*Social Science Year</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 1A-1B</td>
<td>3-4</td>
<td>Course</td>
<td>3</td>
</tr>
<tr>
<td>English 1B and 2 or 3</td>
<td>3</td>
<td>*Psychology 1A</td>
<td>3</td>
</tr>
</tbody>
</table>

*Foreign language (if needed to complete requirement) | 3 | *Social Science 1A | 3 |

*Additional Year Course | 3 | 16 16

*See lower division requirements for junior standing (junior certificate)
1 Offered in the summer session.
2 Offered in the summer session. If not available Zoology 20 (3 units) should be substituted.
3 A new course projected for the Spring of 1941.
The following arrangement of courses is recommended:

**Curriculum in Plant Science**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Health Education</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 1A-1B</td>
<td>3</td>
</tr>
<tr>
<td>Botany 2A-2B</td>
<td>4</td>
</tr>
<tr>
<td>Physics 2A-2B</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>16</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Economics 1A-1B</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Chemistry 7-8</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Geology 1A or 2A</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Botany 4</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Curriculum in Animal Science**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Health Education</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 1A-1B</td>
<td>3</td>
</tr>
<tr>
<td>Zoolgy 1A</td>
<td>4</td>
</tr>
<tr>
<td>Botany 2A</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>16</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Economics 1A-1B</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Chemistry 7</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Geology 1A or 2A</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Botany 4</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

---

**Preengineering Curricula**

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

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

**Mechanical, Electrical, Civil and Mining Engineering**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Health Education</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 3A-3B</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 1A-1B</td>
<td>3</td>
</tr>
<tr>
<td>Physics 1A-1B</td>
<td>4</td>
</tr>
<tr>
<td>*Geology 1A or elective</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>15</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering 1A</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Engineering 21</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Engineering 122</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Engineering 123</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Mathematics 4A-4B</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Mathematics 118 or 119</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Physical Education</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Physics 1C-1D</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

* See prerequisites, page 81.
* Foreign language if not taken in high school.

---

**Mechanical and Electrical Engineering**

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>15</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering 1A</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Engineering 21</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Engineering 122</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Engineering 123</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Mathematics 4A-4B</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Mathematics 118 or 119</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Physical Education</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Physics 1C-1D</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

* See prerequisites, page 81.
* Foreign language if not taken in high school.
* Geology 1A is required in the civil engineering curriculum.
Curriculum in Industrial Chemistry

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

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

Following is the recommended arrangement of courses:

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>Units</th>
<th>SOPHOMORE YEAR</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1A-1B</td>
<td>5</td>
<td>Chemistry 7A-7B</td>
<td>3</td>
</tr>
<tr>
<td>Physics 1A-1B</td>
<td>3</td>
<td>Physics 1C-1D</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 3A-3B</td>
<td>3</td>
<td>Mathematics 4A-4B</td>
<td>3</td>
</tr>
<tr>
<td>English</td>
<td>3</td>
<td>Foreign Language</td>
<td>3-5</td>
</tr>
<tr>
<td>Health Education</td>
<td>2</td>
<td>Engineering 1</td>
<td>3</td>
</tr>
<tr>
<td>Social Science 1A</td>
<td>3</td>
<td>Social Science 1B</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>3</td>
<td>Physical Edu.</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
<td>Electives</td>
<td>0-2</td>
</tr>
<tr>
<td></td>
<td>16½</td>
<td>15½-17½</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>Units</th>
<th>SENIOR YEAR</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 106A-B</td>
<td>3</td>
<td>Chemistry 11A-B</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 112</td>
<td>2</td>
<td>Chemistry 11A-111B</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 144</td>
<td>2</td>
<td>Chemistry 127</td>
<td>2</td>
</tr>
<tr>
<td>Engineering 125-128</td>
<td>3</td>
<td>Engineering Elective</td>
<td>0</td>
</tr>
<tr>
<td>*Economics 1A-1B</td>
<td>3</td>
<td>Physics (upper division)</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 101</td>
<td>2</td>
<td>Electives</td>
<td>6-7</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td>16-17</td>
<td></td>
</tr>
</tbody>
</table>

Public Service Curricula—Public Administration

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

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

*Lower division requirements must be met in full. See page 23. Students who, during the first two years, choose the regular engineering curriculum will find that certain lower division requirements will have to be deferred until the junior year. All lower division requirements must be completed before senior standing is granted.
The high school program should include the following subjects: elementary algebra, 1 unit; plane geometry, 1 unit; intermediate algebra, 1 unit; foreign language, 3 units in one language or 2 units in each of two languages.

The following arrangement of courses is recommended:

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>Units</th>
<th>SOPHOMORE YEAR</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Health Education 1 or 2</td>
<td>2</td>
<td>*English</td>
<td>3</td>
</tr>
<tr>
<td>*Foreign Language (if needed to complete requirements)</td>
<td>3</td>
<td>*Additional Natural Science (if needed to meet requirements)</td>
<td>3</td>
</tr>
<tr>
<td>*Natural Science</td>
<td>3</td>
<td>Economics 1A-1B</td>
<td>3</td>
</tr>
<tr>
<td>Economics 14A-14B</td>
<td>3</td>
<td>Political Science 1A-1B or 103A-103B</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td>Psychology 1A</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>Electives</td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 100</td>
<td>3</td>
</tr>
<tr>
<td>Economics 140</td>
<td>3</td>
</tr>
<tr>
<td>Economics 160</td>
<td>3</td>
</tr>
<tr>
<td>Economics 131</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 175A</td>
<td>3</td>
</tr>
<tr>
<td>175B</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 100</td>
<td>3</td>
</tr>
<tr>
<td>Economics 190A-190B</td>
<td>3</td>
</tr>
<tr>
<td>Economics electives</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

**Public Service Curricula—Clerical and Fiscal Service**

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

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

* See lower division requirements, page 22.

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

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

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

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, 1 unit;

* See lower division requirements, page 24.

* Recommended electives: Economics 14A-14B and Secretarial Training 3A.

* See minors requirements, page 26.
trigonometry, ½ unit; foreign language, 3 units in one language or 2 units in each of two languages.

Following is a recommended arrangement of courses:

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>½</td>
</tr>
<tr>
<td>Health Education 1 or 2</td>
<td>2</td>
</tr>
<tr>
<td>Biology 10A-10B</td>
<td>3</td>
</tr>
<tr>
<td>*Foreign Language (if needed to complete requirement)</td>
<td>3-5</td>
</tr>
<tr>
<td>Psychology 1A</td>
<td>3</td>
</tr>
<tr>
<td>*Speech Arts 1A-1B or English elective</td>
<td>3</td>
</tr>
<tr>
<td>Electives¹</td>
<td>2-5</td>
</tr>
</tbody>
</table>

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>½</td>
</tr>
<tr>
<td>Economics 1A-1B</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 1A-1B or 71A-71B</td>
<td>3</td>
</tr>
<tr>
<td>*Additional Year Course.</td>
<td>3</td>
</tr>
<tr>
<td>*Additional Natural Science (if needed to meet requirement)</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 50A</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 50B²</td>
<td>3</td>
</tr>
</tbody>
</table>

**JUNIORS YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 102 or 131 or 150</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 105</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 109</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 11B</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 15B</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 114A</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 101</td>
<td>3</td>
</tr>
<tr>
<td>Electives²</td>
<td>5</td>
</tr>
</tbody>
</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 140</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 109</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 145</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 143A-145B or Upper Division</td>
<td>3</td>
</tr>
<tr>
<td>Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Electives²</td>
<td>5</td>
</tr>
</tbody>
</table>

**JUNIORS YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Science Major¹</td>
<td>6</td>
</tr>
<tr>
<td>English Minor¹</td>
<td>3</td>
</tr>
<tr>
<td>Journalism 151A-151B</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Science Major²</td>
<td>6</td>
</tr>
<tr>
<td>Social Science Major³</td>
<td>6</td>
</tr>
<tr>
<td>Second Minor²</td>
<td>3</td>
</tr>
<tr>
<td>Journalism ²</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
</tr>
</tbody>
</table>

Public Service Curricula—Foreign Service

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

Curriculum in Journalism

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

*See lower division requirements, page 23.

¹Recommended electives: Economics 14A-14B, 6 units; Psychology 4A, 2 units.
²Sociology 160 may be substituted in the junior year.
³Recommended electives: Anthropology 152, 2 units; Economics 102, 111, 156, 2 units each; History 171A-171B, 8 units; Sociology 108, 168, 169, 2 units each; Sociology 211, Social Case Work, 2 units (extension division division).
TWO-YEAR COMPLETION CURRICULA OFFERED IN COOPERATION WITH THE SAN DIEGO CITY SCHOOLS

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

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

Any other course designated by the prefix “L” (e.g. English L1A) is regularly open to students enrolled in a two-year completion curriculum. See Limited Electives, page 27. The following courses are also regularly open to two-year students; Aesthetics 1A, 1B, 2; Art 6A, 6B, 8A, 8B, 11A, 11B, 11A, 11B, 12A, 12B, 12C, 12D, 13A, 13B, 13C, 13D, 16A, 16B, 16C, 16D, 20A, 20B, 20C, 20D, 26A, 26B, 26C, 26D, 27A, 27B; Occupations; Physical Education for Men 1A, 1B, 1C, 1D; Physical Education for Women 1A, 1B, 1C, 1D; Speech Arts 55A, 55B.

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

Two-year Curriculum in Liberal Arts

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>FIRST YEAR</th>
<th>Units</th>
<th>SECOND YEAR</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English L1A-L40B or English Elective*</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science L40 or equivalent</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Biological Science L40 or equivalent</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Social Science (Economics L10A, L40A, L40B, or Social Science Elective*)</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>Sem. I</td>
<td>5</td>
<td>Sem. I</td>
<td>5</td>
</tr>
<tr>
<td>Orientation</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Health Education 1 or 2</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
</tbody>
</table>

* See following list in italics.

Two-year Curriculum in Art

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>FIRST YEAR</th>
<th>Units</th>
<th>SECOND YEAR</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English L1A-L40B or English Elective*</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science L40 or equivalent</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Biological Science L40 or equivalent</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Social Science (Economics L10A, L40A, L40B, or Social Science Elective*)</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Health Education 1 or 2</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
</tbody>
</table>

Two-year Curriculum in Music

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>FIRST YEAR</th>
<th>Units</th>
<th>SECOND YEAR</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English L1A-L40B or English Elective*</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science L40 or equivalent</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Biological Science L40 or equivalent</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Social Science (Economics L10A, L40A, L40B, or Social Science Elective*)</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Health Education 1 or 2</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
<td>Sem. I</td>
<td>3</td>
</tr>
</tbody>
</table>
### Two-year Curriculum in Speech Arts

<table>
<thead>
<tr>
<th>Units</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
<td><strong>SECOND YEAR</strong></td>
</tr>
<tr>
<td>Sem. I</td>
<td>Sem. II</td>
</tr>
<tr>
<td>English L1A, L40B or English Elective*</td>
<td>Physical Science L40 or equivalent</td>
</tr>
<tr>
<td>Health Education</td>
<td>Speech Arts, Elective (Oral Interpretation,</td>
</tr>
<tr>
<td>Speech Arts L40-55A</td>
<td>Dramatic Expression)*</td>
</tr>
<tr>
<td>55B</td>
<td>Aesthetics 1A-1B</td>
</tr>
<tr>
<td>Art 6A-6B</td>
<td>Art 52A</td>
</tr>
<tr>
<td>Biological Science L40 or equivalent</td>
<td>Art 94</td>
</tr>
<tr>
<td>Physical Education</td>
<td>Social Science L40 or equivalent</td>
</tr>
<tr>
<td>Elective*</td>
<td>Political Science L45</td>
</tr>
<tr>
<td>3</td>
<td>15½</td>
</tr>
</tbody>
</table>

### Two-year Curriculum in Pre-nursing

<table>
<thead>
<tr>
<th>Units</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
<td><strong>SECOND YEAR</strong></td>
</tr>
<tr>
<td>Sem. I</td>
<td>Sem. II</td>
</tr>
<tr>
<td>English L1A, L40B, or English Elective*</td>
<td>Zoology 20</td>
</tr>
<tr>
<td>Biological Science L40 or equivalent</td>
<td>Economics L10A-L10B</td>
</tr>
<tr>
<td>Chemistry 2A-2B or equivalent*</td>
<td>Psychology L40</td>
</tr>
<tr>
<td>Health Education 1 or 2</td>
<td>Speech Arts 20 or substitute</td>
</tr>
<tr>
<td>Social Science L40</td>
<td>Political Science L40</td>
</tr>
<tr>
<td>Elective*</td>
<td>L40</td>
</tr>
<tr>
<td>Physical Education</td>
<td>Elective*</td>
</tr>
<tr>
<td>3</td>
<td>15½</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Units</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
<td><strong>SECOND YEAR</strong></td>
</tr>
<tr>
<td>Sem. I</td>
<td>Sem. II</td>
</tr>
<tr>
<td>English L8</td>
<td>Merchandising L20</td>
</tr>
<tr>
<td>Speech Arts L40</td>
<td>Merchandising L24B</td>
</tr>
<tr>
<td>Secretarial Training L1A</td>
<td>Merchandising L27</td>
</tr>
<tr>
<td>Secretarial Training L1A</td>
<td>Economics 18A-18B</td>
</tr>
<tr>
<td>Secretarial Training L1A</td>
<td>Economics L10A</td>
</tr>
<tr>
<td>Secretarial Training L1A</td>
<td>L10B</td>
</tr>
<tr>
<td>Secretarial Training L1A</td>
<td>Psychology L40</td>
</tr>
<tr>
<td>Secretarial Training L1A</td>
<td>Physical Education</td>
</tr>
<tr>
<td>Economics L15A-L15B</td>
<td>Physical Science</td>
</tr>
<tr>
<td>Merchandising L25</td>
<td>Science L40 or equivalent</td>
</tr>
<tr>
<td>Merchandising L26</td>
<td>Physical Science</td>
</tr>
<tr>
<td>Art 7</td>
<td>Merchandising L45</td>
</tr>
<tr>
<td>Biological Science L40 or equivalent</td>
<td>Elective*</td>
</tr>
<tr>
<td>Physical Education</td>
<td>16½</td>
</tr>
</tbody>
</table>

### Accountancy

<table>
<thead>
<tr>
<th>Units</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
<td><strong>SECOND YEAR</strong></td>
</tr>
<tr>
<td>Sem. I</td>
<td>Sem. II</td>
</tr>
<tr>
<td>Economics L15A-L15B</td>
<td>Physical Science</td>
</tr>
<tr>
<td>English L8</td>
<td>Merchandising L20</td>
</tr>
<tr>
<td>English Elective*</td>
<td>Merchandising L24B</td>
</tr>
<tr>
<td>Secretarial Training L1A-L1B</td>
<td>Merchandising L27</td>
</tr>
<tr>
<td>Secretarial Training L1A-L1B</td>
<td>Economics 18A-18B</td>
</tr>
<tr>
<td>Health Education 1 or 2</td>
<td>Economics L10A</td>
</tr>
<tr>
<td>Physical Science L40 or equivalent</td>
<td>L10B</td>
</tr>
<tr>
<td>Biological Science L40 or equivalent</td>
<td>Political Science</td>
</tr>
<tr>
<td>Elective*</td>
<td>Physical Education</td>
</tr>
<tr>
<td>Physical Education</td>
<td>16½</td>
</tr>
</tbody>
</table>

---

* See list in italics on page 64.

---

(66)
Secretarial Training

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Sem. I</th>
<th>Sem. II</th>
<th>Course</th>
<th>Units</th>
<th>Sem. I</th>
<th>Sem. II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics L16A-L16B</td>
<td>3</td>
<td>3</td>
<td></td>
<td>Physical Science L40 or equivalent</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secretarial Training</td>
<td></td>
<td></td>
<td></td>
<td>Biological Science L40 or equivalent</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English L8</td>
<td>3</td>
<td></td>
<td></td>
<td>Economics L10A-L10B</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Elective*</td>
<td>3</td>
<td></td>
<td></td>
<td>Secretarial Training</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secretarial Training</td>
<td>3</td>
<td></td>
<td></td>
<td>L5A-L5B</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health Education</td>
<td>2</td>
<td></td>
<td></td>
<td>L5A-L5B</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Education</td>
<td>1½</td>
<td>1½</td>
<td></td>
<td>Political Science L45</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>15½</td>
<td>16½</td>
<td></td>
<td>Elective*</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>15½</td>
<td>16½</td>
<td></td>
<td>Physical Education</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* See list in italics on page 64.

COURSES OF INSTRUCTION

Figures in parentheses indicate the unit value of the course.

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

Freshmen are not admitted to upper division courses.

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

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

The semester in which courses are offered is designated as follows: (1) Fall; (2) Spring; (3) Fall and Spring; (4) Year course, beginning either Fall or Spring; (5) Year course. Courses designated as "Year course" begin in the Fall, but those given in the list below may be taken in the reverse order (i.e., the second semester of the course may be taken before the first semester) or the second semester may be taken alone. In the case of other year courses, students who have completed the equivalent of the first semester’s work may seek permission from the instructor to take the second half of the course. Single semester courses having the letter B as a part of the number (as for example, Art 61B) are not supposed to follow another course of the same number unless so indicated in the prerequisites to the course.
### AESTHETICS

#### LOWER DIVISION COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A-1B</td>
<td>Survey of Music</td>
</tr>
<tr>
<td>5</td>
<td>Fundamentals of Art</td>
</tr>
<tr>
<td>50</td>
<td>Appreciation and History of Art</td>
</tr>
</tbody>
</table>

**Year Courses Open to Registration in the Middle of the Year**

<table>
<thead>
<tr>
<th>Aesthetics 1A-1B</th>
<th>Spanish 110A-110B</th>
</tr>
</thead>
<tbody>
<tr>
<td>102A-102B Beauty</td>
<td>French 111A-111B</td>
</tr>
<tr>
<td>Anthropology 50A-50B</td>
<td>History 4A-4B</td>
</tr>
<tr>
<td>Anthropology 151A-151B</td>
<td>History 8A-8B</td>
</tr>
<tr>
<td>Economics 190A-190B</td>
<td>History 111A-111B</td>
</tr>
<tr>
<td>English 50A-50B</td>
<td>History 121A-121B</td>
</tr>
<tr>
<td>English 52A-52B</td>
<td>History 145A-145B</td>
</tr>
<tr>
<td>English 105A-105B</td>
<td>History 156A-156B</td>
</tr>
<tr>
<td>English 107A-107B</td>
<td>History 171A-171B</td>
</tr>
<tr>
<td>French 101A-101B</td>
<td>History 173A-173B</td>
</tr>
<tr>
<td>French 105A-105B</td>
<td>Merchandising 124A-124B</td>
</tr>
<tr>
<td>French 107A-107B</td>
<td>Political Science 1A-B</td>
</tr>
<tr>
<td>French 110A-110B</td>
<td>Political Science 71A-71B</td>
</tr>
<tr>
<td>Spanish 101A-101B</td>
<td>Political Science 175A-175B</td>
</tr>
<tr>
<td>Spanish 102A-102B</td>
<td>Speech Arts 55A-55B</td>
</tr>
<tr>
<td>Spanish 104A-104B</td>
<td>Speech Arts 155A-155B</td>
</tr>
<tr>
<td>Spanish 105A-105B</td>
<td>Speech Arts 156A-156B</td>
</tr>
</tbody>
</table>

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

### ART

#### UPPER DIVISION COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>102A-102B</td>
<td>History of Music</td>
</tr>
</tbody>
</table>

**Year course (2-2)**

| 150        | Appreciation and History of Art                  |

The period from the Renaissance through the modern school, treated in the same manner as in Aesthetics 50. Spring (2)

**ART**

Candidates for a teaching credential in art should refer to the statement "Admission to Teacher Training" on page 23.

**Lower division preparation for the liberal arts major in art:** Aesthetics 5, 59; fourteen units carefully chosen from lower division art courses to meet the stated prerequisites for upper division work. These shall include Art A-B, 6A-6B, or the accepted equivalents, and six elective units in art.

**Liberal arts major (upper division): Twenty-four upper division units.** These shall include Art II2A, 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 108A-108B, 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 70.

### LOWER DIVISION COURSES

**Art Appreciation**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8A-8B</td>
<td>Appreciation of Costume and Home Furnishing</td>
</tr>
</tbody>
</table>

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

**8B** Lectures, discussions, and demonstrations on the underlying principles of dress and home furnishing. (a) A study of the design, color, texture, of dress and home furnishing. (b) Line, form, color, texture, figure, the personality and the occasion. (c) Light, fabric, and lighting in relation to the house; the selection and arrangement of furniture, rugs, fabrics, pictures, etc., etc. for all rooms of the home. Fall and Spring (2)
6A Structure
Hamann, Patterson
Fundamentals of design and composition and theory of color. Basic course used as a prerequisite for all advanced work.
Fall and Spring (2)

6B Structure (continued)
Jackson, Patterson
Original work in creative design with special stress on modern tendencies. Prerequisite: Art 6A.
Fall and Spring (2)

6C Design
Jackson, Patterson
Original work in creative design. Prerequisite: Art 6A.
Fall and Spring (2)

L7 Line, Color and Display
Patterson
The principles of line, color and arrangement applied to store and window display. Study and observation of windows, color, and materials used in display. Building models and practical problems in arranging colors, textures, and forms in windows to fit different kinds of merchandise.
Fall and Spring (2)

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

11B Advanced Industrial Design
Hamann
Advanced problems with emphasis upon the related factors of material and production. Application of problems designed. Prerequisites: Art 6A-6B, 11A.
Spring (2)

14A Lettering
Houser
Fundamental art principles applied to lettering. Practice for quick, accurate lettering; original problems using letters as design. Prerequisite: Art 6A.
Fall (2)

14B Posters and Commercial Art
Houser
The application of lettering to posters, newspaper and magazine advertising, and other forms of commercial art. The study of composition combined with lettering and special study of modern tendencies in publicity.
Prerequisites: Art 6A, 14A.
Fall and Spring (2)

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

94 Costume Design
Patterson
Original designs of modern costumes suitable to the individual or to distinctive types; the drawing of fashion figures; the rendering of fabrics and textures. Prerequisite: Art 6A.
Spring (2)

95 Home Decoration (See Art 135)
Patterson
Drawing and Painting
A-B Freehand Drawing
Houser
Semester I: Problems involving perspective to develop ability to draw still life, furniture, exteriors, interiors, and the like.
Semester II: Outdoors sketching of landscape and figure, and studio work from still life and costume poses. Emphasis on composition and technique in the handling of various mediums, pencil, pen and ink, charcoal, pastel, and water color.
Year course (3-3)

15A-15B Life Drawing
Jackson
Drawing from the nude model. Prerequisite: Art A-B.
Year course, beginning either Fall or Spring (2-2)

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

Art 61A Fine and Industrial Arts
Hamann
A foundation course which develops a unification of work of the elementary grades through activities and experiences. These experiences grow out of the handling of various mediums pencil, pen and ink, charcoal, pastel, and water color.
Fall and Spring (2)

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

UPPER DIVISION COURSES

Design
Houser
106A-106B Printmaking
Study of print crafts which includes the making of linoleum blocks, wood engravings and etchings. Prerequisites: Art A, B, 6A.
Year course (2-2)

112A-112B Organization
Houser
Imaginative organization of space by means of color, dark and light, and texture. Prerequisites: Art A-B, 6A-6B, and if possible 15A-15B or 106A.
Year course (2-2)
EDUCATION

106C Illustration
Houser
Same as 106A-B except that printmaking is applied to problems of book illustration. Prerequisites: Art A, B, 6A.
Spring (2) (Offered in 1940-41 and alternate years)

152A Stage Design
See Art 52A.

152B Stage Costume
Patterson
Costume studied in relation to drama, opera and dance. Original designs for mood and character. Practical problems in designing costumes and accessories for college productions. Prerequisites: Art 6A, 52A or 152A.
Fall (2)

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

Drawing and Painting
Jackson
115A-115B Life Drawing and Painting
Drawing and painting from nude and costume models. Year course, beginning either Fall or Spring (2-2)

115C-115D Advanced Life
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
Painting in water color and oils from still life and landscape, stressing composition and technique. Prerequisite: Art 16A-16B.
Year course, beginning either Fall or Spring (3-3)

EDUCATION
LOWER DIVISION COURSES

L17 Music in the Elementary School
Arnold
Main objectives of music teaching in the public elementary schools. Study of the child voice. Organization of song material by grades, procedure in presenting rote songs, ear training, elementary notation, music elementary credential, nor to freshmen. Prerequisite: Music 1A, or the equivalent.
Fall and Spring (2)

L19 Art in the Elementary School
Arnold
Discussion of the elements and principles of art and their place in the art expression and appreciation of the elementary school child. Lectures illustrated with examples of children's work and opportunity given for experience with mediums used in elementary school problems. Not open to students taking the elementary credential. Prerequisite: Art 6A.
Fall and Spring (2)

EDUCATION
UPPER DIVISION COURSES

L100A-B Methods and Materials of Instruction
R. C. Perry, Siemens, and major subject instructors
A year course required of all candidates in their junior year for the major high and all special secondary credentials. Candidates for a combination of either a junior high or a special secondary credential with an elementary credential may substitute the work of the elementary practitioners for the first half of this course, but not vice versa.
The first half of the course deals with general methods of instruction and the organization and functions of the secondary school curriculum; the second half deals with specific methods used in the field of the teaching major or minor and with directed observation of teaching.
Subject sections in 100B are offered in the following semesters:
Fall semester: Music (1940 and alternate years), Social Studies, Junior Business Training, Stenography, Speech Arts, Mathematics, Physical Education (men and women), and science.
Spring semester: English, Social Studies, Art, Science, Romance Languages (1941 and alternate years), Bookkeeping, Typewriting, Physical Education (men and women).

Students meet twice a week with their major subject instructors, once a week in a combined class with an education instructor.
Fall and Spring (3-3)

102A-B The Psychological Foundations of Education
Deputy
A year course required of all teacher training candidates in their junior year. A basic course required in the curriculum preparing for the major high and all special secondary credential. The first half of the course deals with elementary psychology, the second half deals with the problems of child growth and development and education psychology.
Fall and Spring (3-3)

LS109 Educational Administration and Supervision
A survey of the systems of organization, classification, and promotion of pupils, and such problems as finance, the teaching staff, building standards, etc. Prerequisites: Education 125, 108, or extra-curricular activities, etc.
Summer (3)

LS110 Educational Organization and Supervision
Types of supervision and methods of evaluating and improving teaching. Prerequisites: Education 125, 108, or equivalents.
Summer (3)

LS111 English in the Junior High School (See Education 100B)
Objectives of literature and language teaching in the junior high school; criteria for selection of material; techniques of classroom procedure.
(75)
observation in the city schools. Prerequisite: The satisfaction of the lower division requirements in English for the teaching major in English.

Summer (3)

LS14 Social Science in the Junior High School (See Education 106B)
The teaching of some of the elementary facts and principles of a "general" social science suited to the experience and development of the junior high school pupil, through the medium of such social studies in the junior high school curriculum as history, geography, and civics. Methods of developing a genuine and continuing interest in social and civic problems through observation and reading, discussed and illustrated. Special stress on evaluating historical and geographical material for educative purposes on this level. Prerequisites: Six units of geography and six units of history.

Summer (3)

115A-B The Principles and Functions of Education
Ault, R. C. Perry, Siemens
A year course restricted to students with senior standing or the equivalent. Required of all junior high school candidates. The second half of the course is required of all special secondary credential candidates and the first half is required of all elementary credential candidates.

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

Fall and Spring (3)

L116 Practice Teaching
R. C. Perry and Supervisors
Systematic observation, participation and teaching under supervision in the campus training school, the Euclid affiliated city elementary school, the Woodrow Wilson Junior High School, and the Herbert Hoover Senior high School. All students enrolled in this course are automatically announced in the time schedule.

The general plan is for elementary school credential candidates to take, in addition to the education practicums, a half-day of teaching daily in the affiliated city elementary schools or two and one-half hours daily in one of the junior high school and special secondary school credential candidates will be teaching. For those seeking a combination of credentials, the requirement of this requirement should be passed by the adviser relative to the distribution of their practice periods for each teaching level. Further information when the student first registers for practice teaching.

Thirty clock hours of practice teaching will usually carry one unit of credit in the course, but the final amount of credit allowable will depend upon the character and quality of the teaching done by the student. Evidence of successful public school experience. The maximum amount of credit allowed for this course is twelve units; they will allow to four units. Students planning to transfer to such institutions should be prepared to meet this reduction with an equal number of acceptable units in other courses.

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

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

L119 Art in the Junior High School
Class problems, discussions and observations which will give an understanding of the type of work that should be taught in junior high schools.

Summer (3)

L127 Music in the Secondary School (See Education 100B) L. D. Smith
Main objectives of music teaching in the public secondary schools. Organization of the chorus and glee clubs, voice testing, seating, a survey of song materials available. Organization of courses in applied music, harmony, history and appreciation.

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

L130 Educational Psychology
Man's equipment for learning and the learning process. Consideration of human behavior which is fundamental to learning. The study of given to human behavior which is fundamental to learning. The study of learning includes such topics as laws of learning, improvements in learning, remembering and forgetting, fatigue in learning, and the transfer of training. Prerequisite: Psychology 1A.

Summer (3)

L140 Elementary Educational Statistics
An introductory study of measures of central tendency, of variability, and correlation. An introduction to educational research, especially in the use of calculating machines and other aids to computation. Data for statistical research taken from typical school situations. Only 2 units allowed students who have taken Economics 140. No grade below a C is acceptable for credit in this course.

Summer (3)

L142 Educational Sociology
A consideration of school practices in light of social needs; interrelationships of schools and other social agencies; and trends in cooperative work. Laboratory training in the use of calculating machines and other aids to computation. Data for statistical research taken from typical school situations. Only 2 units allowed students who have taken Economics 140.

Summer (3)

L145 Organization and Administration of Music Education L. D. Smith
Theory of the general principles of music administration; correlation of creative work.
This course and Education 148 are required of all students who expect to receive a credential which will qualify them to teach in the elementary school. Students should take the course during the next semester after admission to Teacher Training, which is usually the first semester of the junior year. Registration is strictly limited to small groups.

Education Practicum is a unified course which deals with the interpretation and intelligent application of theory and practice in elementary education. The child and accumulated knowledge are studied as one affects the other. The psychology of learning is interpreted while the college student is immediately associated with the experiences of children. For two or three hours each day classes are held in which the psychology and philosophy of education are studied and analyzed as systems of knowledge and concurrently interpreted in reference to the actual teaching participation to which the student is assigned for one hour daily. The course includes the material commonly taught in many colleges under the titles of educational psychology, principles of learning, mental hygiene, special methods courses in reading, arithmetic, English, art, music, speech, etc.

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

Fall and Spring (12)

L148 Education Practicum
Arnold, Bacon, Corbett, Lucio, Madden, K. Post, B. Stone

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

Fall and Spring (12)

L160 Commercial Education (See Education 100B)
Wright
Aims, objectives and procedures in commercial education. A study of curricula, together with a consideration of the content of commercial subjects; tests applicable to commercial teaching.
Fall (2)

L161 Junior Business Training (See Education 100B)
Wright
Methods and content of the courses in the elements of business training as offered in the junior high school. Not open for credit for those who have taken Secretarial Training 3A.
Spring (2)

L165 Stenography (See Education 100B)
Amsden
Methods and content of courses in stenography. Prerequisites: Secretarial Training 5A-5B, 6A.
Fall (2)

L164 Bookkeeping (See Education 100B)
Wright
Various types of bookkeeping methods, with considerable study of content.
Fall (2)

L165 Typewriting (See Education 100B)
Amsden
Methods in typewriting and office procedure. Prerequisite: Secretarial Training 1A.
Spring (2)

L169 Graphic Methods in Education
R. C. Perry
Fundamentals of pictorial representation as used by the teacher in presenting classroom material, in educational literature, in presenting the schools to the public, and in administrative control. Emphasis will be placed on the construction of charts and graphs for popular consumption. A course particularly valuable to candidates for the administrative credential. No prerequisite although it is desirable that the student have had some teaching experience.
Spring (2)

L170 Administration of a Visual Instruction Program
M. Evans
The service program of a visual instruction center is studied as a collecting, selecting, organizing and distributing center for classroom illustrative materials; a teacher training and advisory bureau in the technique and correct use of visual aids; a photographic production laboratory for making current and local illustrative materials for the curriculum; a testing division for evaluating visual equipment; standardization and upkeep of same; a center for correlating and integrating the school program with opportunities offered by other community educational institutions and organizations; an advisory department for supervising school film productions and for instructing teachers and students in the art of photography and appreciation of photoplays.

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

Fall and Spring (2)

L176 Speech Arts in the Secondary School (See Education 100B)
Jones
Organization and conduct of junior high and high school speech activities.
Fall (2)

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

ENGINEERING

L165 Type Writing
Dean of Education
Methods in typewriting and office procedure. Prerequisite: Secretarial Training 1A.
Spring (2)

L169 Graphic Methods in Education
Dean of Education
Fundamentals of pictorial representation as used by the teacher in presenting classroom material, in educational literature, in presenting the schools to the public, and in administrative control. Emphasis will be placed on the construction of charts and graphs for popular consumption. A course particularly valuable to candidates for the administrative credential. No prerequisite although it is desirable that the student have had some teaching experience.
Spring (2)

L170 Administration of a Visual Instruction Program
Dean of Education
The service program of a visual instruction center is studied as a collecting, selecting, organizing and distributing center for classroom illustrative materials; a teacher training and advisory bureau in the technique and correct use of visual aids; a photographic production laboratory for making current and local illustrative materials for the curriculum; a testing division for evaluating visual equipment; standardization and upkeep of same; a center for correlating and integrating the school program with opportunities offered by other community educational institutions and organizations; an advisory department for supervising school film productions and for instructing teachers and students in the art of photography and appreciation of photoplays.

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

Fall and Spring (2)

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

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

1A-1B Plane Surveying
Gleason
Use and adjustment of surveying instruments, computations and maps.

179
voring. Two instruction periods and one three-hour period for field work and mapping each week. Prerequisites: Trigonometry and Mechanical Drawing, or equivalent, and sophomore standing.

Year course (3.3)

S3 Summer Class in Surveying
Practical field problems in reconnaissance, triangulation, location and topographic surveys. Observations for meridian, time and latitude. Precise work in linear and angular measurements. Development of self-reliance, accuracy, and professional skill on the part of the student. Four weeks course held in the mountains near San Diego. For details regarding location of camp, date of registration, date of opening, and other arrangements, a special announcement of the surveying camp may be secured at the Registrar's Office. Offered if demand is sufficient. Prerequisite: Surveying 1A or 1B.

Summer (3)

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

Fall (3)

L22 Machine Drawing
Design and drawing of simple machine parts with emphasis upon the production of standard drawings. Lectures and drafting. Prerequisite: Engineering 21.

Spring (3)

L23 Materials of Construction
Structural properties and adaptability of materials used in engineering. Lectures. Prerequisite: Sophomore standing.

Spring (3)

25 Elements of Electrical Engineering
Mathematical and descriptive consideration of electrical circuits and machinery together with a general survey of the electrical industry. Primarily for engineering students other than mechanical or electrical. Lectures. Prerequisites: Mathematics 4A, Physics 1C.

Spring (3)

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

Fall (3)

UPPER DIVISION

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

Spring (3)

ENGLISH

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

Fall (3)

LOWER DIVISION COURSES

L1A Freshman English
V. M. Evans, Johnson, Trail
The elements of composition, including drill in grammar and usage, exercised in vocabulary building and careful reading, and an introduction to the principles of effective writing.

Fall and Spring (3)

1B Freshman English
Adams, V. M. Evans, Johnson, Keeney, Kennedy, Trail, F. D. Walker
Composition stressing exposition. Reading from essays of England and America since 1550. Prerequisite: Satisfactory Subject A test or record from another college.

Fall and Spring (3)

1C Freshman Literature
V. M. Evans, Keeney
An introduction to literature significant in European and American culture, with composition.

Fall and Spring (3)

2 Sophomore English
Kennedy, F. D. Walker
Composition stressing personal narrative and informal essay. Reading from field of biography and memoirs. Prerequisite: One semester from field of composition.

Fall and Spring (3)

3 Sophomore English
Adams, Dickhaut, Johnson
Composition stressing article writing of varied types. Reading from current periodical literature. Prerequisite: One semester of freshman English.

Fall and Spring (3)

L8 English in Business
Torbett
Theory and practice of business correspondence. Business letters as formal and informal. Application of principles involved to sales letters, applications for employment, customer correspondence, technical reports, and other business communications. Prerequisite: English L1A or equivalent, as indicated by Subject A Examination.

Fall and Spring (3)
### ENGLISH

**10 Recreational Reading**

Dickhaut

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

*Fall and Spring (1)*

**30A-30B Survey of American Literature**

Kennedy

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

*Year course (3-2)*

**L40B Freshman English**

Lately, mainly contemporary, is read for its thoughts and ideas, especially in relation to human problems and their solution. Practise in writing is continued. Prerequisite: English L1A, L40A, or 1B. Note the designation for this course has been changed from 3B to L40B.

*Fall and Spring (3)*

**L40C Sophomore English**

Composition stressing personal narrative and informal essay. Readings in biography. Note the designation for this course has been changed from 6C to L40C.

*Spring (3)*

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

Adams, Dickhaut, Traill

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

*Year course (3-3)*

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

Keeney

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

*Year course (3-3)*

### UPPER DIVISION COURSES

**101 Modern Prose Fiction**

Dickhaut

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

*Spring (3)*

**106A, 106B Advanced Composition**

Dickhaut

A laboratory course in modern prose writing. Semester I: Artistic narrative, with description. The short story. Semester II: The essay, the novels of college composition. Either semester may be taken first.

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

**107A, 107B Advanced Composition**

Adams

These courses are designed for students who wish to do independent work in composition. The discussions will consider the problems of effective expression as exhibited in the work of the members of the class.

*Fall (2)*

**110 Recreational Reading**

Dickhaut

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

*Fall and Spring (1)*

**112 The English Language**

Kennedy

A study of usage and change in the English language, its history and characteristics, with emphasis upon the more recent developments in the language.

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

**116A The Age of Elizabeth**

Adams

Poetry and prose, exclusive of the drama.

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

**116B The Elizabethan Drama**

Adams

Emphasis is given to the forerunners and early contemporaries of Shakespeare.

*Spring (3) To be arranged*

**117A Shakespeare**

F. L. Johnson

An introduction to Shakespeare, with special emphasis on the histories and comedies.

*Fall (3)*

**117B Advanced Shakespeare**

F. L. Johnson

Shakespearean tragedy and tragi-comedy.

*Spring (3)*

**118A Swift and His Contemporaries**

Keeney

A study of the literature of the first half of the eighteenth century, with special emphasis on social satire of Swift, Pope, Addison, Steele, Gay and Prior.

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

**118B Age of Johnson**

Keeney

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

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

**119 The Romantic Poets**

Adams

A study of early nineteenth century poetry; the works of Wordsworth, Coleridge, Byron, Shelley, and Keats, in relation to the thought of the eighteenth century and the romantic period.

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

**121 Poetry of the Victorian Period**

F. D. Walker

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

*Fall (3) (Offered in 1941-42 and alternate years)*
126 Nineteenth Century British Prose Dickhaut
Readings and discussions of romantic and mid-Victorian prose writers, including Coleridge, Hazlett, Lamb, de Quincey, Carlyle, Landor, Macaulay, Mill and Thackeray.
Fall (3) (Offered in 1940-41 and alternate years)

127 Modern British Prose Dickhaut
Late nineteenth and early twentieth century essays of Arnold, Beardsley, Bellow, Chesterton, Galsworthy, Gosse, Huxley, Inge, Newman, Pater, Ruskin, Shaw, Stevenson, Trollope and Wells.
Fall (3) (Offered in 1941-42 and alternate years)

131 Spokesmen of American Ideals Adams
The writers studies will be chosen from Franklin, Paine, Emerson, Longfellow, Lowell, Thoreau, Whitman, Parkman, Henry Adams, and William James.
Fall (3) (Offered in 1940-41 and alternate years)

132 The Frontier and American Literature F. D. Walker
A survey of the influence of the frontier upon American literature from colonial days to the present. Studies in source materials, biographies, and representative writers such as Irving, Cooper, Harte, and Mark Twain.
Spring (3) (Offered in 1940-41 and alternate years)

133 American Fiction and Drama Kennedy
A study of the major American novelists from Cooper to Norris, of the short story of the 19th century, and of the American drama from Fitch to Moody.
Fall (3) (Offered in 1941-42 and alternate years)

134 Recent American Literature F. D. Walker
A survey of American literature since 1900 with emphasis upon contemporary poetry and fiction.
Spring (3) (Offered in 1941-42 and alternate years)

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

151 Medieval Literature Keene
The literature of the fourteenth century, especially the verse romances and the poetry of Chaucer.
Fall (3)

152A Survey of Drama: Comedy V. M. Evans
Studies in the field of comedy, based on selected readings from the works of Continental, English, and American dramatists. Lectures, discussions, and reports on reading.
Fall (3)

152B Survey of Drama: Tragedy V. M. Evans
Procedure as in 152A, with selections taken from the field of tragedy.
Spring (3)

160 Seventeenth Century Literature Adams
Emphasis is put upon the work of Milton.
Fall (3) (Offered in 1941-42 and alternate years)

166 Honors Course F. D. Walker and Staff
Special study. Open to members of the Honors Group in English. See page 21.
Fall and Spring (1 to 5-1 to 5)

SPEECH ARTS
(See page 136.)

FOREIGN LANGUAGES

As a background for advanced work in Romance languages, students are advised to include in their electives as many as possible of the following courses:


FRENCH

LOWER DIVISION COURSES

- Lower division preparation for the liberal arts major in French: French 4B-C-D; either German A-B or Spanish A-B; History 4A-4B.
- Liberal arts major in French: Twenty-four units of upper division work, of which the maximum of six may be in related subjects, arranged in consultation with the chairman of the department. At least a C average in upper division major courses.
- Intensive study of French grammar and syntax; daily written work discussed in class; class drill in conversational idiom and pronunciation; reading with oral discussion and résumés; dictation; introduction to contemporary prose writers. Credit not given for French A unless followed by French B. Students who have had one year of French in high school should register for French B. Those who have had two years of French in high school should register for French C.
- Year course (5-5)

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

- 20 Scientific L. P. Brown
- Reading taken from the fields of chemistry, physics, medicine, zoology, etc. Outside readings of books and periodicals. Oral and written reports. Prerequisite: French B or equivalent.
- Fall (3) (Offered in 1941-42 if registration warrants)

### FOREIGN LANGUAGES

#### UPPER DIVISION COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>101A-101B</td>
<td>Conversation and Composition</td>
<td>E. M. Brown</td>
</tr>
<tr>
<td>105A-105B</td>
<td>Modern French Drama</td>
<td>E. M. Brown</td>
</tr>
<tr>
<td>107A-107B</td>
<td>Eighteenth Century Literature</td>
<td>L. P. Brown</td>
</tr>
<tr>
<td>110A-110B</td>
<td>Modern French Novel</td>
<td>E. M. Brown</td>
</tr>
<tr>
<td>111A-111B</td>
<td>Seventeenth Century Dramatic Literature</td>
<td>E. M. Brown</td>
</tr>
</tbody>
</table>

#### LOWER DIVISION COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>102</td>
<td>French A (2-2)</td>
<td></td>
</tr>
<tr>
<td>103</td>
<td>French B</td>
<td></td>
</tr>
<tr>
<td>104</td>
<td>French C</td>
<td></td>
</tr>
</tbody>
</table>

### GERMAN

#### LOWER DIVISION COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-B</td>
<td>Elementary</td>
<td>H. K. Walker</td>
</tr>
<tr>
<td>C-D</td>
<td>Intermediate</td>
<td>H. K. Walker</td>
</tr>
<tr>
<td>SC-SD</td>
<td>Scientific</td>
<td>Messner</td>
</tr>
</tbody>
</table>

#### GENERAL LANGUAGE

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-2</td>
<td>Latin and Greek Word Derivation</td>
<td>L. P. Brown</td>
</tr>
</tbody>
</table>

#### ITALIAN

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-B</td>
<td>Elementary</td>
<td>Phillips</td>
</tr>
<tr>
<td>A-B</td>
<td>Elementary</td>
<td>Baker, L. P. Brown</td>
</tr>
</tbody>
</table>

### SPANISH

#### LOWER DIVISION COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1</td>
<td>Lower division preparation for the liberal arts major in Spanish: Spanish A-B-C-D</td>
<td></td>
</tr>
<tr>
<td>L-2</td>
<td>Liberalarts major in Spanish: Twenty-four units of upper division work, of which at least eighteen must be in Spanish, and of which a maximum of six may be in related subjects, arranged in consultation with the chairman of the department. At least a C average in upper division major courses</td>
<td></td>
</tr>
<tr>
<td>A-B</td>
<td>Elementary</td>
<td></td>
</tr>
</tbody>
</table>

#### PREREQUISITES

- French A, or its equivalent, with grade of C.
- French B, or its equivalent, with grade of C.
- French C, or its equivalent, with grade of C.
- German A, unless followed by German B.
- Students who have had one year of German in high school should register for German B. Those who have had two years of German in high school should register for German C.
- Spanish A unless followed by Spanish prose writers. Credit not given for Spanish A unless followed by Spanish prose writers.
B. Students who have had one year of Spanish in high school should register for Spanish B. Those who have had two years of Spanish in high school should register for Spanish C. Those who have passed L40B should register for Spanish B.

Year course (3-5)

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

Year course (3-3)

L40A-L40B Elementary Baker
A course similar to Spanish A-B, but meeting only three times a week and giving only three units of credit a semester. Credit not given for Spanish L40A unless followed by Spanish L40B. Note the designation for this course has been changed from I and 2 to L40A-L40B.

Year course (3-3)

UPPER DIVISION COURSES

101A-101B Conversation and Composition Phillips
Prerequisite: Spanish D, or its equivalent, with grade of C.

Year course (3-3) (Offered in 1941-42)

102A-102B Introduction to Spanish Classics L. P. Brown
Reading from several types of classical literature. Lazarillo de Tormes and other novels of Begurcy; selections from Don Quixote, and the Cien Mejores Poesias Castellanas; one drama each from the works of Lope de Vega, Calderon, Alarcon, and Moreto; collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

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

104A-104B Spanish-American Literature Phillips
A survey of the whole field of Spanish-American literature during the colonial, revolutionary and modern periods. Lectures, class reading, collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3)

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

Year course (3-3) (Offered in 1943-44)

110A-110B Novel and Short Story in Spain L. P. Brown
The development of the novel and short story in Spain from 1830 to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3) (Offered in 1941-42)

FOREIGN LANGUAGES

HEALTH EDUCATION

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)

HEALTH AND PHYSICAL EDUCATION

(See Physical Education)

HEALTH EDUCATION

LOWER DIVISION

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

Fall and Spring (2)

2 Health and Social Adjustment (Women) B. I. Stone
An informational course reviewing the principles underlying the improvement and preservation of personal and civic health. Social hygiene in its relations to the practical problems of young women and prospective home makers. Required of all freshmen who are candidates for junior standing or the degree.

Fall and Spring (2)

90 Physiology of Reproduction (Women) Huff
A course consisting of a series of lectures and discussion dealing with normal and abnormal physiology and anatomy of reproduction facts and procedures. A course designed to prepare for more intelligent parenthood and consisting of discussions of prenatals and puerperal care, appraisal of the range of normal to abnormal and to anatomical health of infancy. Normal mental growth, normal physical health of infancy. Normal mental growth, normal physical

89

88

87
JOURNALISM

For the curriculum in journalism see page 62.

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

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

LOWER DIVISION COURSES

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

Fall and Spring (1-1)

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

Year course (3-3)

L53A-L53B Applied Journalism Swanson
Credit earned for editorial or other staff work throughout a full semester on student publications such as The Aztec, El Pulinque, Del Studente.

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

UPPER DIVISION COURSES

151A-151B Newspaper Editing Swanson
Study and practice in the editorial, headline writing and editing of newspaper copy; newspaper management.

Fall and Spring (1-1)

L153A-L153B Advanced Journalism Practice Swanson
Upper division work of the same type as that in 53A-53B, but with 151A-151B required as a prerequisite unless waived by the instructor.

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

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

LIFE SCIENCES—BIOLOGY

153C-153D Newspaper Practices Swanson
Work on community publications, including county newspapers, under direction of the instructor.

Fall and Spring (2)

199 Special Course for Advanced Students Swanson
Open to seniors with sufficient journalistic background to satisfy the instructor.

Spring (2)

LIBRARY SCIENCE

L10 Use of the Library J. P. Stone
The chief object is to give a working knowledge of some of the resources of the library which every teacher and student should understand—the decimal classification, the card catalog, periodical indexes, and the most important reference books, together with some instruction in the preparation of bibliographies. The course will be a requirement of those added to the library's staff of student assistants, although it will not prepare the student to become a librarian.

Fall and Spring (1)

LIFE SCIENCES

(General Biological Science, Botany, Zoology)

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 preparation for the liberal arts major in zoology: Zoology 1A, 1B, and high school chemistry or Chemistry 1A-1B. Recommended: German or French, Botany 2A, 2B, 4.

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

Students preparing to teach science in the junior high school should try to include courses in zoology, botany, bacteriology, physics, chemistry (at least high school chemistry). Courses designed to help the student get a good high school science credit are desirable. Recommended: Botany 1A, 1B, 11A, 11B, 102; Zoology 112, 113A, B, C, D, 121.

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

BIOLOGY

LOWER DIVISION COURSES Darsie

1 Survey
A survey of the Life Sciences, stressing the development of modern concepts in the fields of plant and animal science, bacteriology, genetics, and in the application of scientific analysis to every day problems, life and the application of scientific analysis to every day problems.
LIFE SCIENCES—BACTERIOLOGY—BOTANY

Net open to students with credit for Biology 10A-10B, Zoology 1A-1B, or Botany 2A-2B.

**Fall or Spring (3)**

10A-1OB General

**Laboratory**: Crouch, Engler, Jannoch

The fundamentals of plant and animal biology, with elementary work in human physiology and heredity. Laboratory work supplements the lectures and includes a study of living and preserved material. Aim of the course to acquaint the student with the basic facts of biology. Two lectures and one three-hour laboratory period per week. Designed for those who do not expect to specialize in zoology or botany; not open for credit to students who have taken Zoology 1A, or Botany 2A. Students who have taken 10A-1OB may elect Zoology 1B or Botany 2A, 2B for credit.

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

L40 Man and His Biological World

A survey of the general field of biology with emphasis on the role of biological science in the welfare of man and his associates, consisting of three lectures and one demonstration period per week. Open to students who have credit in high school biology, zoology, or botany. Note: The designation of this course has been changed from 5 to L40.

Fall and Spring (3)

BACTERIOLOGY

Note: A four unit introductory course in bacteriology is usually given in summer school.

199 Special Study

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

BOTANY

**LOWER DIVISION COURSES**

2A General

**Lectures**: Johnson

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

Fall (4)

2B General

**Lectures**: 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

**Lectures**: Harvey

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

LIFE SCIENCES—ZOOLOGY

**UPPER DIVISION COURSES**

102 Plant Geography

**Harvey**

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

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

104 Taxonomy

**Harvey**

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

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

107 Plant Physiology

**Harvey**

The activities of plants, including food manufacture, absorption, conduction, transpiration, respiration, growth, and movement. Two lectures and six hours of laboratory per week. Prerequisite: Biology 10A-1OB or Botany 2A, and at least high school chemistry.

Fall (4)

199 Special Study

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

Fall and Spring (1 or 2)

ZOLOGY

**LOWER DIVISION COURSES**

1A General

**Harwood and Engler**

An introduction to animal biology dealing with structure, functions, and evolution of animal life. Laboratory work supplementing the lectures and based on the study and observation of living and preserved material (invertebrates). Valuable to the general student as well as to the biologist 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-1OB receive no credit for Zoo 1A but receive credit for Zoo 1B.

Fall (4)

1B General

**Harwood and Engler**

A continuation of 1A. The structure, relationships, and classification of the chordates. Two lectures and six hours of laboratory per week. Prerequisite: Zoology 1A or Biology 10B.

Spring (4)

2A Anatomy and Physiology

**Crouch**

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

Fall or Spring (3)
100 Embryology
The development of vertebrates as illustrated by the frog, chick, and pig. Three hours of laboratory and two hours of lecture per week. Prerequisite: Zoology 1B or Biology 10B.
Spring (3)

100D Microscopic Technique
Introduction to methods of preparation of tissues for microscopic study. Three hours of laboratory per week. Prerequisite: elementary chemistry, limited to students who have completed or are now taking Zo 100.
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)

112 Marine Invertebrates
Identification and study of behavior and life histories of invertebrates of the San Diego region. Frequent collecting trips to the beaches required. Prerequisite: Zoology 1A or Biology 10B.
Fall (3) (Offered in 1941-42 and alternate years)

113A Taxonomy and Natural History of the Mammals
Frequent field trips and the identification of preserved material. Three hours of laboratory per week.
Spring (1) (Offered in 1940-41 and alternate years)

113B Ornithology
Crouch
The study and identification of birds, especially those of the Pacific Coast and the San Diego region. One hour of lecture and six hours per week of laboratory, or field excursions. Prerequisite: Zoology 1B or Biology 10B.
Spring (3) (Offered in 1940-41 and alternate years)

113C Field Study of Birds
Crouch
The study and identification of the birds of the San Diego region. Three hours of laboratory or field work per week.
Spring (1) (Offered in 1941-42 and alternate years)

113D Natural History of Fishes
Harwood
Lectures, laboratory, and field work to acquaint the student with the groups of fishes, their habits and economic importance.
Fall (1) (Offered in 1940-41 and alternate years)

114A Genetics
Harwood
General introductory course designed to acquaint the student with the fundamental principles of heredity and variation. Special attention given to the Mendelian interpretations of the facts of inheritance. Two lectures per week.
Fall (2)
MATHMATICAL COURSES TAKEN IN HIGH SCHOOL AND TO HAVE MADE HIGH APTITUDE AND
ACHIEVEMENT SCORES IN COLLEGE ENTRANCE TESTS. IN LIEU OF THIS, SPECIAL
PERMISSION MUST BE SECURED FROM DEPARTMENT AND INSTRUCTOR. COURSES C
AND D ARE OFFERED EACH SEMESTER, OTHERS LESS FREQUENTLY.

1A. Elementary Algebra (2).
1B. Elementary Geometry (2).

C. Trigonometry (3). Prerequisites: Mathematics A, B, and D.
D. Intermediate Algebra (5). Prerequisites: Mathematics A.
E. Solid Geometry (2). Prerequisites: Mathematics A, B, and D.
S. Slide Rule (1). Prerequisites: Mathematics A, B, and D.

1 Elementary Analysis loanston
A general course in calculus and related topics, with applications to
several fields. Not ordinarily available for students who have taken
or equivalents, with recommended grades, or permission of instructor.
Spring (3)

3A-3B Analytic Geometry and Calculus
Livingston, Gleason, Walling
Analytic geometry and differential calculus, together with an introduction
to integral calculus. Prerequisites: Trigonometry and intermediate
algebra in high school, with recommended grades, or permission of the
department.
Year course (3-3)

4A-4B Solid Analytic Geometry and Calculus C. E. Smith, Walton
Integration, partial differentiation, solid analytic geometry, infinite series
and multiple integrals. Prerequisite: Mathematics 3A-3B. Solid
geometry and college algebra are recommended.
Year course (3-3)

5 Solid Mensuration
Walton
Derivation and use of formulas for calculation of dimensions, surfaces,
and volumes of mathematical solids. Required of those not having made
sufficiently high grades to enter 3A directly. Open as an elective to
others. Prerequisites: Introductory courses in algebra, geometry, and
trigonometry, except that the latter may be taken concurrently.
Fall and Spring (2 or 3)

8 College Algebra
Complex numbers, determinants and theory of equations. Prerequisites:
trigonometry and either 5A or 1.
Fall and Spring (2 or 3)

UPPER DIVISION COURSES

102 Selected Topics in Algebra
Walton
Topics supplementary to those considered in Mathematics 8 and 111.
Prerequisites: Mathematics 3A-3B and 8.
Spring (3) (Offered in 1941-42 and alternate years)

104 History of Mathematics
Gleason
History of mathematics down to early modern times. Prerequisite:
Mathematics 1 or 3A-3B.
Fall (3) (Offered in 1941-42 and alternate years)

105 College Geometry
Livingston
An extension of the high school course in plane geometry, dealing largely
with triangles and circles. Several new procedures, including inversion,
are introduced. Prerequisite: Mathematics 3A.
Fall (3) (Offered in 1940-41 and alternate years)

106 Projective Geometry
Livingston
Concurrence of lines, collinearity of points and other properties of figures
not altered by projections; construction and study of ellipses, hyperbolias
and parabolias by means of projections. Prerequisites: Mathematics 3A.
Fall (3) (Offered in 1941-42 and alternate years)

111 Higher Algebra
Walton
Linear dependence, matrices, quadratic forms, groups. Prerequisites:
Mathematics 3A, 3B, 8, 4A, or permission of the instructor.
Fall (3) (Offered in 1940-41 and alternate years)

112 Higher Geometry
Livingston
Analytic geometry of space, analytic projective geometry, higher plane
curves. Prerequisites: Mathematics 3A, 3B, 8, 4A, or permission of the
instructor.
Fall (3) (Offered in 1940-41 and alternate years)

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

119 Differential Equations
Gleason
Ordinary differential equations of first and second order, with applica-
tions. Prerequisite: Mathematics 4B or permission of instructor.
Spring (2 or 3) (Offered in 1941-42 and alternate years)

140 Probability and Statistics
Gleason
Statistical theory and method from the mathematical standpoint; appli-
cations in social and natural science. Prerequisites: Mathematics 4A-4B,
and 8.
Spring (3) (Not offered in 1940-41)

199A-199B Special Study
The Staff
An opportunity is offered for advanced work in algebra, geometry and
mathematical courses taken in high school and to have made high aptitude and achievement scores in college entrance tests. In lieu of this, special permission must be secured from department and instructor. Courses C and D are offered each semester, others less frequently.

1A. Elementary Algebra (2).
1B. Elementary Geometry (2).

C. Trigonometry (3). Prerequisites: Mathematics A, B, and D.
D. Intermediate Algebra (5). Prerequisites: Mathematics A.
E. Solid Geometry (2). Prerequisites: Mathematics A, B, and D.
S. Slide Rule (1). Prerequisites: Mathematics A, B, and D.

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

3A-3B Analytic Geometry and Calculus Livingston, Gleason, Walling
Analytic geometry and differential calculus, together with an introduction to integral calculus. Prerequisites: Trigonometry and intermediate algebra in high school, with recommended grades, or permission of the department.
Year course (3-3)

4A-4B Solid Analytic Geometry and Calculus C. E. Smith, Walton
Integration, partial differentiation, solid analytic geometry, infinite series and multiple integrals. Prerequisite: Mathematics 3A-3B. Solid geometry and college algebra are recommended.
Year course (3-3)

5 Solid Mensuration Walton
Derivation and use of formulas for calculation of dimensions, surfaces, and volumes of mathematical solids. Required of those not having made sufficiently high grades to enter 3A directly. Open as an elective to others. Prerequisites: Introductory courses in algebra, geometry, and trigonometry, except that the latter may be taken concurrently.
Fall and Spring (2 or 3)

8 College Algebra Livingston
Complex numbers, determinants and theory of equations. Prerequisites: trigonometry and either 5A or 1.
Fall and Spring (2 or 3)

UPPER DIVISION COURSES

102 Selected Topics in Algebra Walton
Topics supplementary to those considered in Mathematics 8 and 111. Prerequisites: Mathematics 3A-3B and 8.
Spring (3) (Offered in 1941-42 and alternate years)

104 History of Mathematics Gleason
History of mathematics down to early modern times. Prerequisite: Mathematics 1 or 3A-3B.
Fall (3) (Offered in 1941-42 and alternate years)

105 College Geometry Livingston
An extension of the high school course in plane geometry, dealing largely with triangles and circles. Several new procedures, including inversion, are introduced. Prerequisite: Mathematics 3A.
Fall (3) (Offered in 1940-41 and alternate years)

106 Projective Geometry Livingston
Concurrence of lines, collinearity of points and other properties of figures not altered by projections; construction and study of ellipses, hyperbolas and parabolas by means of projections. Prerequisites: Mathematics 3A.
Fall (3) (Offered in 1941-42 and alternate years)

111 Higher Algebra Walton
Linear dependence, matrices, quadratic forms, groups. Prerequisites: Mathematics 3A, 3B, 8, 4A, or permission of the instructor.
Fall (3) (Offered in 1940-41 and alternate years)

112 Higher Geometry Livingston
Analytic geometry of space, analytic projective geometry, higher plane curves. Prerequisites: Mathematics 3A, 3B, 8, 4A, or permission of the instructor.
Fall (3) (Offered in 1940-41 and alternate years)

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

119 Differential Equations Gleason
Ordinary differential equations of first and second order, with applications. Prerequisite: Mathematics 4B or permission of instructor.
Spring (2 or 3) (Offered in 1941-42 and alternate years)

140 Probability and Statistics Gleason
Statistical theory and method from the mathematical standpoint; applications in social and natural science. Prerequisites: Mathematics 4A-4B, and 8.
Spring (3) (Not offered in 1940-41)

199A-199B Special Study The Staff
An opportunity is offered for advanced work in algebra, geometry and mathematical courses taken in high school and to have made high aptitude and achievement scores in college entrance tests. In lieu of this, special permission must be secured from department and instructor. Courses C and D are offered each semester, others less frequently.

1A. Elementary Algebra (2).
1B. Elementary Geometry (2).

C. Trigonometry (3). Prerequisites: Mathematics A, B, and D.
D. Intermediate Algebra (5). Prerequisites: Mathematics A.
E. Solid Geometry (2). Prerequisites: Mathematics A, B, and D.
S. Slide Rule (1). Prerequisites: Mathematics A, B, and D.


MERCHANDISING

L20 Consumer Problems
Growing importance of consumption as a field for study; consumer incomes in the United States; consumption and business cycles; bases of consumer choice-making; practical problems of buying food, clothing, shelter, transportation, insurance, etc.; family budgeting; a survey of the methods by which products reach the consumer; market structure and functions seen from the consumer's point of view.

Fall (3)

L24 Principles of Merchandising
A study of retail stores, emphasizing the problems of store managers and merchandising executives; store location, organization, personnel, sales promotion, buying and handling of merchandise, inventory, turnover, and control methods. Changing conditions in retailing, problems of profitable operation under present conditions.

Spring (3)

L25 Principles of Salesmanship
Theoretical and psychological backgrounds of salesmanship, newer concepts of selling; the selling of ideas and services; steps in a sale; attention, interest, desire, closing; the development of clienteles and of goodwill; the personal factor in salesmanship.

Fall (3)

L26 Applied Salesmanship
Classroom practice in selling; supervised work in cooperating stores, or outside selling; relationships between theory and practice in specific selling situations; incentives methods of payment in selling; the problem of sales managers in reducing selling costs.

Spring (2)

L26A Life Insurance Salesmanship
A study of the special problems of life insurance selling, with emphasis on the psychological aspects of insurance selling, and on specific techniques for finding prospects, and for managing the sales interview. A course for students interested in life insurance selling, and for those planning to obtain life underwriter's certification. To be taken in conjunction with 26 (see above) and not available as a separate course.

Spring (26 and 26A, 3 units)

L27 Principles of Advertising
A survey of advertising from the points of view of the business man and the consumer; business principles applied to advertising; basic psychological appeals employed; market analysis as an advertising tool; budgeting; publicity devices; institutional advertising; the function of agencies.

Spring (3)

MUSIC

Candidates for a teaching credential in music should refer to the statement "Admission to Teacher Training Curricula" on page 28 and to the other degree requirements on that page and those following. The curriculum for the A.B. Degree with a Special Secondary Credential in Music is on page 40.

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

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

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

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

LOWER DIVISION COURSES

L1A Music Reading and Ear Training—Fundamentals of Music

L. D. Smith

D. F. Smith

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

Fall and Spring (2)

1B Music Reading and Ear Training—Musicianship

L. D. Smith

Tonal and rhythmic dictation; rhythm writing; sight singing. Basic course for music majors and minors. Text—Smith and Krone: Fundamentals of Musicianship Book I. Prerequisite: Music 1A, or the equivalents. Students not able to pass the departmental entrance examination are recommended to take the departmental entrance examination. Satisfactory entrance examination is prerequisite to the above course.

Fall and Spring (2)

1C-1D Advanced Music Reading and Ear Training

L. D. Smith

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

Year course (2-2)

L2A String Instrument Class

Leib

Beginner's class in violin, viola, cello and string bass. Required of all music majors working for a Special Secondary credential unless the music majors are working for a Special Secondary credential at a vocational school under a vocational education program. 2 units will be given if the student is enrolled for both the regular and orchestral sections.

Fall and Spring (1)
MUSIC

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

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

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

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

8A-8B Keyboard Harmony and Accompanying     Springfield
Practical application of the principles of elementary harmony. Prerequisite one year of piano study. At least one year of high school harmony is desirable.
Year course (2-2)

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

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

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

15A-B-C-D A Cappella Choir      D. F. Smith
Entrance upon examination.
Fall and Spring (1-1)

Fall and Spring (1-1)

* See page 163, conditions under which credit may be given for music study under private instructors.

---

MUSIC

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

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

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

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

27A-27B Music for Enjoyment     Springfield
A course designed for students with little or no musical background. Lectures and discussions as a basis for intelligent reading of music. Not open to music majors and minors.
Year course (1-1)

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

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

---

UPPER DIVISION COURSES

106A-106B Advanced Harmony and Composition    Springfield
Study of the possible types of modulation and chromatic harmonies: continuation of harmonic analysis and original composition. Text—Alein: Applied Harmony Vol. II. Prerequisite: Music 4A-4B.
Year course (3-3)

106A Counterpoint       D. F. Smith
Study of the five species of counterpoint with much practice in writing in such forms. Application of contrapuntal style to modern composition.
Prerequisite: Music 4A-4B.
Fall (1)

* See page 165, conditions under which credit may be given for music study under private instructors.
107A Form and Analysis
D. F. Smith
Aural and visual analysis of music forms through a consideration of structure, harmonic content, and style. Prerequisite: Music 105A-105B.

Spring (2)

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

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

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

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

116A-B-C-D Advanced Individual Study of an Orchestral Instrument
Fall and Spring (1-1)

117A-B-C-D Advanced Individual Study of Voice
Fall and Spring (1-1)

118A-B-C-D Advanced Individual Study of Piano or Organ
Fall and Spring (1-1)

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

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

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

* See page 105, conditions under which credit may be given for music study under private instructors.

PHILOSOPHY

125A-B-C-D Band
Leib
Permission of the conductor required for membership.
Fall and Spring (1-1) (A maximum of 4 units in band may be counted toward the A.B. degree)

130A-130B Chamber Music
Leib
String quartet and woodwind ensembles only. Permission of the instructor necessary for class membership. Note the designation for this course has been changed from 105A-105B to 105A-105B.
Year course (1-1)

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

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

1. The applicant for such credit must be a regularly enrolled student in the music department of the college.

2. The instructor giving such private work must be a regularly State-certificated teacher, or else be approved by the Music Department. All private work and the names of all such teachers must be registered in the office of the music department chairman at the beginning of the semester.

3. In the case of first semester private study, a placement examination conducted by the music department faculty at the beginning of the semester will show the status of the student at the beginning of his work.

4. Evidence that the standards of the Music Department have been met will be shown by an examination conducted by the music department faculty at the end of the semester.

LOWER DIVISION COURSES

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

5B Knowledge and Society
Steinmetz
Scientific method and the persistent topics of philosophy in their bearing upon the social problems of the day. Prerequisite: Philosophy 5A, except that sophomores planning to major in natural science may be admitted without prerequisite.
Spring (3)

UPPER DIVISION COURSES

105B Knowledge and Society
Steinmetz
Same as Philosophy 5B, except that upper division students will be held to more exacting contribution.
Spring (3)
### PHYSICAL EDUCATION—MEN

120 Reflective Thinking (Logic)  
Steinmetz  
Analysis of fallacies, and the logic of argument and proof; also examination of reflective procedures in various fields of knowledge, and review of some psychological descriptions of thought. Prerequisites: Psychology 1A and Philosophy 5A.  
*Spring (3) (Offered in 1940-41 and alternate years)*

130 Conduct (Ethics)  
Steinmetz  
The meaning of morality; motives and sources of belief, aspiration, ideal; psychological and sociological factors; representative ethical systems; relation of ethics to other axiological studies.  
*Spring (3) (Offered in 1941-42 and alternate years)*

#### PHYSICAL EDUCATION—MEN

Men's Department

Candidates for a teaching credential in physical education should refer to the statement "Admission to Teacher Training Curricula" on page 28. For the teacher training curriculum in physical education see page 42.

#### LOWER DIVISION COURSES

A two-hour activity course each semester is required for the two years of lower division. A medical examination is given each student when entering and the work is fitted, as far as possible, to his needs. The content of the required two years is planned to give each student an opportunity to choose those sports which have carry-over value into after life. Opportunity is given all students to take part in the regular competitive sports program.

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

**L1A-L1B Freshman Activity**  
Year course, beginning either Fall or Spring (1-1)

**L1C-L1D Sophomore Activity**  
Year course, beginning either Fall or Spring (1-1)

Class sections are so arranged that the student may choose the activity he is most desirous of learning. Fundamentals of the sports listed are taught during the class hour.

#### Intercollegiate Sports

<table>
<thead>
<tr>
<th>Sports</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>L2A-L2B-L2C-L2D Golf</td>
<td>Spring (1)</td>
<td></td>
</tr>
<tr>
<td>L3A-L3B-L3C-L3D Track</td>
<td>Spring (1)</td>
<td></td>
</tr>
<tr>
<td>L4A-L4B-L4C-L4D Baseball</td>
<td>Spring (1)</td>
<td></td>
</tr>
<tr>
<td>L5A-L5B-L5C-L5D Basketball</td>
<td>Spring (1)</td>
<td></td>
</tr>
<tr>
<td>L6A-L6B-L6C-L6D Tennis</td>
<td>Spring (1)</td>
<td></td>
</tr>
<tr>
<td>L7A-L7B-L7C-L7D Boxing</td>
<td>Spring (1)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sports</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>L11A-L11B-L11C-L11D Fencing</td>
<td>Spring (1)</td>
<td></td>
</tr>
<tr>
<td>L13A-L13B-L13C-L13D American Football</td>
<td>Fall (1)</td>
<td></td>
</tr>
<tr>
<td>L15X-L15Y-L15Z Spring Football</td>
<td>Spring (1)</td>
<td></td>
</tr>
<tr>
<td>L14A-L14B-L14C-L14D Gymnastics</td>
<td>Spring (1)</td>
<td></td>
</tr>
<tr>
<td>L15A-L15B-L15C-L15D Badminton</td>
<td>Spring (1)</td>
<td></td>
</tr>
</tbody>
</table>

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

30 **Emergencies**  
C. R. Smith  
The accepted procedure in meeting the emergencies which daily arise in schoolroom, play or athletic field, beach, mountains, or any of the many places where the physical director is called on for first aid. Special attention given to the arrangement of the apparatus and the activities so that many of the most common accidents are prevented or minimized.  
*Fall (1)*

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

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

*Fall and Spring (2)*

**L62A Gymnastic Activities**  
C. E. Peterson  
Theoretical and practical work in marching, free exercises, and light and heavy apparatus. Emphasis on progression and method of presenting material. The simplest and most explanatory terminology.  
*Fall (2) (Offered in 1941-42 and alternate years)*

**L62B Gymnastic Activities**  
C. E. Peterson  
Acquisition of proficiency in the performance of a great group of gymnastic stunts always popular in the gymnasium and on the playground. Work of the recreational or self-interesting type rather than the formal. All tumbling, stunts, and pyramid-building given chief attention, although games of low organization are also considered.  
*Spring (2) (Offered in 1941-42 and alternate years)*

**L66 Playing Rules of Modern Games**  
C. R. Smith  
Thorough study of latest rules of modern major and minor sports.  
*Fall and Spring (1)*

**L72 Principles of Physical Education**  
Calland  
Cultivation of a favorable attitude for a professional study of physical fitness.
PHYSICAL EDUCATION—MEN

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 L72.

Spring (3)

L155 Applied Anatomy

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

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

L156A Sports Methods

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

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

L156B Sports Methods

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

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

L161 Folk Dancing

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

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

L166 Technique of Officiating

Review of material presented in Physical Education L66. Methods of officiating all the sports common to the school or college program; also methods of training student officials. Practice in the handling of elementary, junior high, senior high and intramural college competition.

Prerequisite: Physical Education L66.

Spring (2)

L168 Physiology of Exercise

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

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

L169 Technique of Teaching Activities

Directed leadership in activities. A course preliminary to practice teaching in which students are given opportunity to develop leadership and teaching technique.

Spring and Fall (1-2)

PHYSICAL EDUCATION—WOMEN

L170 Recreational Leadership

Shafer

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

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

L180 Theory of Coaching Football

Calland

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

Spring (2)

L190 Individual Program Adaptation

Young

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

Fall (2)

WOMEN

LOWER DIVISION COURSES

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

L1A Fundamental Skills

Practice in efficient fundamental body movements.

Fall and Spring (1)

L1B Folk Dancing

Pease

Spring (1)

L1C Rhythmic Skills

Fundamental movements, simple dance forms and improvisation. Required.

Fall and Spring (4)

Sophomores may elect from the following: Physical Education Staff

L2A-L2B Folk Dance

L3A-L3B-L3C-L3D Modern Dance

L4A-L4B Social Dance
**PHYSICAL EDUCATION—WOMEN**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Semester Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>L5A-L5B</td>
<td>Archery</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L6A-L6B</td>
<td>Badminton</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L7A-L7B</td>
<td>Golf</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L8A-L8B-L8C-L8D</td>
<td>Seasonal Sports</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L9A</td>
<td>Stunts and Tumbling</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L10A-L10B-L10C</td>
<td>Swimming and Life Saving</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L11A-L11B</td>
<td>Tennis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L12A-L12B</td>
<td>Advanced Modern Dance Laboratory experiments in advanced choreography and percussion accompaniment. For men and women. Prerequisite: L11A for women, L11B for men. Fall and Spring (1-1)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

51 Safety Education Bennett
Prevention of accidents: practical application of first aid methods leading to American Red Cross First Aid Certificate. Fall (1) (Offered in 1940-41 and alternate years)

L53 Physical Education in the Elementary School Schwob
The content of the State program in physical education forms the basis of the course. Two lectures, two-one-hour laboratory periods per week. Required of all candidates for the elementary school credential and the special credential in physical education. Fall and Spring (2)

**Sports**

1. The individual activities, swimming, tennis, golf, archery, badminton and dancing are offered through the year. Candidates for the special credential in physical education select one as a major activity and two others as minors. Skills in the activities thus selected must be maintained as prerequisite to the senior course, Physical Education L18B. (See page 110.)

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

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

**UPPER DIVISION COURSES**

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

L153 Administration of Secondary Physical Education Schwob
Study of administrative problems applied to high school situation including organization of instructional and recreational programs, classification of students, and routine administration. Spring (2) (Offered in 1940-41 and alternate years)

L155 Applied Anatomy Young
See Men's program.
Mechanics of the human skeletal and muscular systems and their actions in games, formalized activities, and general body movements; mechanical strength and durability as influenced by anatomical factors. Spring (2)

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

L160 Principles of Teaching Gymnastics Schwob
Gymnastic materials and methods followed by practice in teaching match-gymnastics and use of apparatus. Fall (2) (Offered in 1940-41 and alternate years)

L161 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 1940-41 and alternate years) Open to men and women.

L164A-L164B Methods in Modern Dance Wespe
Laboratory experiments in advanced choreography and percussion accompaniment. Historical survey and practical experience in production techniques and teaching methods. Two activity periods and one lecture per week. For men and women. Prerequisites same as for L12A. Year course (2-2) (Offered in 1940-41 and alternate years)

L168 Physiology of Exercise Bennett
A non-laboratory course emphasizing the relation of physiology to muscular exercise in physical activities. Prerequisite: Zoology 20 or the equivalent. Spring (2) (Offered in 1940-41 and alternate years)

L169 Technique of Teaching Activities Schwob
Observation, lesson planning and teaching in college classes. Fall and Spring (3)

170 Recreational Leadership Shafer
Fundamentals of recreational leadership developed by instruction in club and camp activities, the study of school recreational needs and facilities, and of civic recreation. Open to all upper division men and women. Recommended to students interested in the recreational aspects of social service. Spring (2) (Offered in 1940-41 and alternate years)

L173 Principles of Physical Education Schwob
A study of the more significant influences shaping the trend of physical education in the past and present. General philosophy and principles of physical education and its relation to general education. Fall (2) (Offered in 1940-41 and alternate years)

(108)
PHYSICAL SCIENCES—ASTRONOMY

L177 Individual Program Adaptations
Schwoeb
Adjustments of the physical education program to the physical needs and capacities of individuals; problems concerning protective and preventive measures which are not highly specialized corrective phases.

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

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 108.)

PHYSICAL SCIENCES

ASTRONOMY

Lower division preparation in Astronomy desirable for advanced work: Astronomy 1, 2, 3, and 9; Mathematics 3A-3B, 4A-4B; Physics 1A-1B and 1C-1D; a reading knowledge of French and German desirable.

LOWER DIVISION COURSES

C. E. Smith
1 Descriptive Astronomy
A cultural course planned to develop an appreciation of astronomy with special emphasis on the solar system. Only calculations of an elementary nature are used. Special attention given to the methods and instruments by means of which astronomical knowledge has been gained. A six-inch John Byrne telescope is available for observation. Prerequisites: Elementary algebra and plane geometry.

Fall and Spring (3)

C. E. Smith
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. Note the designation of this course has been changed from 11 to 2.

Spring (3)

C. E. Smith
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) (Offered in 1941-42 and alternate years)

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

Fall and Spring (1)

PHYSICAL SCIENCES—CHEMISTRY

12 Elementary Navigation
C. E. Smith
A study of compass corrections, drift problems, time, line of position, use of celestial coordinates, Bowditch Tables, etc. A few class hours at the close of the term are devoted to the use of tables such as Ageton or Dreisonstok for the solution of astronomical triangle. Offered if demand is sufficient.

Spring (2)

L40 Elementary Astronomy
C. E. Smith, Watson
A survey course planned to acquaint the student with the more important facts pertaining to both the solar system and to the stars. The first part of the course is devoted to the study of the earth as an astronomical body and to the other planets. The latter part is devoted to a study of the sun and stars. Note the designation of this course has been changed from 5 to L40.

Fall and Spring (3)

UPPER DIVISION COURSES

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

Fall and Spring (1 or 2)

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

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

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

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

CHEMISTRY

Lower division preparation for the liberal arts major in chemistry: Chemistry 1A-1B with an average grade of C or better, Chemistry 7-8, Physics 2A-2B and 3A-3B or their equivalent, Mathematics 3A-3B or the equivalent, and a reading knowledge of German. Students planning to do graduate work in chemistry or to transfer to another college, and there work in chemistry, are advised to take Physics 1A-1B and Mathematics 3A-3B-4A-4B in place of the courses listed above.

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

For requirements for liberal arts major in physical science, see page 115.
PHYSICAL SCIENCES—CHEMISTRY

LOWER DIVISION COURSES

1A-1B General Chemistry

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 pursuing 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 (3-3)

UPPER DIVISION COURSES

105A Quantitative Analysis

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

Fall (3)

105B Advanced Quantitative Analysis

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

Spring (3)

110A-110B Physical Chemistry

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

Year course (3-3)

111A-111B Physical Chemistry—Laboratory

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

Year course (2-2)

112 Industrial Analysis

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

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

114 Biochemistry

An introductory lecture course covering the carbohydrates, proteins, fats and the changes which they undergo in digestion and metabolism as well as a consideration of the vitamins and other accessory food factors and their importance to the body. A brief discussion of the chemistry of plant life. Prerequisites: Credit or registration in Chemistry 110A-110B.

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

118 Colloid Chemistry

A lecture course covering the theoretical principles of colloid chemistry and the preparation, properties and practical applications of colloids. Prerequisite: Chemistry 110A-110B.

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

123-124 Organic Preparations

A laboratory course illustrating some of the more important synthetic methods of organic chemistry. Laboratory and conferences. Prerequisite: Chemistry 7-8. A reading knowledge of German recommended.

Beginning either Fall or Spring (1 to 5.1 to 5)

125 History of Chemistry

Development of the science of chemistry from the time of the alchemists to the present. Conducted on the reading, report, and seminar basis. Prerequisite: Chemistry 7, 8.

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

127 Advanced Inorganic Chemistry

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

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

144 Industrial Chemistry

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

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

199 Special Topics

Supervised individual work in specialized branches of chemistry such as colloid chemistry, biochemistry, applications of the phase rule, etc. Only open to upper division students who have arranged in each case. Only open to upper division students who have arranged in each case. Only open to upper division students who have arranged in each case.

Fall and Spring (1-3)
PHYSICAL SCIENCES—GEOLOGY

GEOLGY

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

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

LOWER DIVISION COURSES

1A Physical
The composition, origin, and distribution of earth materials, and their modification through chemical and chemical processes of change. Three lectures and one three-hour laboratory period weekly with related field study during the semester. (Not open to students who have had Geology 2A except for one unit upon the completion of the laboratory section.) Fall (4)

1B Historical
Theories of earth origin, and the evolutionary history of the earth as traced through rock and fossil records. Consideration of the Paleontologic Sequence. Three lectures and one three-hour laboratory period weekly, with arrangement for field study and conference during the semester. Prerequisite: Geology 1A or equivalent. Spring (4)

2A General
Similar to Geology 1A but without laboratory. Open to all students except physical science majors or those already presenting credit in Geology 1A. Two lectures and one demonstration and discussion hour weekly. Fall (5)

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

21A-21B Mineralogy
Study of the common minerals and rocks. Use of the blowpipe and simple chemical reagents but with emphasis upon sight determination. Prerequisite: Geology 1A and high school chemistry, or equivalents. Year course (3–3) (Offered in 1941–42 and alternate years)

L40 General Geology
An elementary course dealing with those processes of nature by which the surface of the earth is built up, deformed and torn down. A study of the natural history and occurrence of the common rocks and minerals. Note the designation for this course has been changed from 5 to L40.

PHYSICAL SCIENCES—PHYSICAL SCIENCE

UPPER DIVISION COURSES

100 Structural Geology
Brooks
The evolution and description of the structural and topographical features of the earth. Faulting, folding, and orogenic forces with practical illustrations from the North American Continent and emphasis on California geologic conditions. Lectures, discussions, and occasional field trips. Prerequisite: Geology 1A-1B. Fall (3) (Offered in 1940–41 and alternate years)

101 Geologic Problems
Brooks
Reconnaissance of adjacent areas with elementary mapping; or directed reading and group discussion of California Geology; or selection and preparation of materials for the museum collections. Prerequisite: Geology 1A-1B. Registration subject to approval of instructor. Spring (1–4)

PHYSICAL SCIENCE

LOWER DIVISION COURSE

1A Introduction to Physical Science
Watson
A survey course dealing with the nature of man's physical universe. Emphasis will be upon materials chosen from topics in astronomy and physics in order to give a background for some understanding of modern physics in order to give a background for some understanding of modern physics and the scientific method. Not open to students who have had high school or college physics or astronomy. May be taken with or without plans to continue with 1B. Fall and Spring (3)

1B Introduction to Physical Science
Watson
A continuation of physical science 1-A. Emphasis will be upon materials chosen from topics in geology and chemistry in order to give a background for some understanding of modern physical science and the scientific method. Not open to students who have had high school or college physical science and the scientific method. May be taken with or without credit in physical science 1-A. Fall and Spring (3)

L40 Survey of Physical Science
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 chemistry, astronomy, and geology in order to give some background for chemistry, astronomy, and geology. Not open to students with or without credit in physical science 1-A.
PHYSICAL SCIENCES—PHYSICS

either of these and astronomy or geology. Note the designation for this course has been changed from 5 to 140.
Fall and Spring (3)

PHYSICS

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

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

LOWEST DIVISION COURSES

1A-1B General; Mechanics and Heat Moe, Worley
Mechanics, properties of matter, and heat. A development of the fundamental ideas which underlie the subject of physics, and the application of them in the discussion of practical problems. Lectures, text assignments, problem sets, and experimental laboratory work. Two lectures and one laboratory period each week. Prerequisites: High school physics or chemistry, and trigonometry. Students deficient in any part of this requirement may enroll only with the permission of the instructor.
Year course (3-3)

1C-1D General; Electricity, Magnetism, Sound, and Light Baird
A continuation of Physics 1A-1B for students in the sophomore year. Two lectures and one laboratory period each week.
Year course (3-3)

2A-2B General Baird
Properties of matter, mechanics, heat, sound, light, electricity, and magnetism. A nonengineering course. Lectures, demonstrations, and discussions. Prerequisite: Two years of high school mathematics.
Year course (3-3)

3A-3B Physical Measurements Worley
Laboratory work in mechanics, properties of matter, heat, sound, light, electricity, and magnetism. Usually taken in conjunction with Physics 2A-2B.
Year course (1-1)

UPPER DIVISION COURSES

105A-105B Analytical Mechanics Moe
Treatment of fundamental principles of statics, kinematics and dynamics of particles and rigid bodies. Prerequisites: Physics 1A-1B or 2A-2B and a working knowledge of calculus.
Year course (3-3) (Offered in 1940-41 and alternate years)

106 Optics Baird
Refraction, color, interference, diffraction, polarization, radiation, and optical instruments. Prerequisite: Eight units in physics.
Fall (3) (Offered in 1940-41 and alternate years)

107A-107B Electrical Measurements Worley
Experimental study of the theory and use of electrical measuring instruments. Designed to accompany 110A-110B.
Year course (1 or 2 units for the year)

108 Modern Baird
An introductory survey of the problems of modern physics. Theories of atomic structure and series in optical spectra, radioactivity, conduction of electricity through gases, radiation and the quantum theory. Prerequisites: Eight units in physics.
Spring (3) (Offered in 1940-41 and alternate years)

110A-110B Electricity and Electromagnetism Worley
Elements of the mathematical theory of electrostatics, of magnetostatics and magnetism, of steady and varying currents, and of electron theory, with illustrative applications.
It is usually expected that students taking this course will accompany it with some laboratory work in electrical measurements.
Year course (3-3) (Offered in 1941-42 and alternate years)

112 Advanced Heat Moe
Thermal properties of matter. An introduction to the kinetic theory of gases and the laws of thermodynamics. Prerequisites: Eight units in physics and a working knowledge of calculus.
Spring (3) (Offered in 1941-42 and alternate years)

112L Advanced Heat Laboratory Moe
Laboratory work in advanced heat, designed to accompany Physics 112.
Spring (1) (Offered in 1941-42 and alternate years)

114 Wave Motion and Sound Moe
A study of wave motion and its applications to sound production and transmission. The principles of musical instruments and architectural acoustics. Prerequisites: Eight units in physics.
Fall (3) (Offered in 1941-42 and alternate years)

114L Sound Laboratory Moe
Laboratory work in wave motion and sound, designed to accompany Physics 114.
Fall (1) (Offered in 1941-42 and alternate years)

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

(116)
PSYCHOLOGY

LOWER DIVISION COURSES

1A General
An elementary survey of normal adult psychology, focused upon personality; the subjective and objective aspects of behavior. Furnishes basis for all other courses in psychology. Prerequisite: Sophomore standing.
Fall and Spring (3)

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

4A Applied
Applications of psychology to problems of the individual in learning, making social adjustments, choosing a vocation, developing desirable personal traits, and achieving success and happiness. Survey of psychology as applied in education, music, art, speaking, writing, law and medicine. Prerequisite: Psychology 1A. Recommended: Psychology 1B.
Fall (2)

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

102 Genetic (Growth and Development of the Child) Steinmetz
The mental and physical growth and development of the child, especially with relation to norms of structure and function. Diagnosis of individual children by comparison with norms. Behavior problems and the growth of personality traits as conditioned by physical and mental factors. An intensive study of one child presenting a problem of physical or mental maladjustment made by each student. Prerequisite: Psychology 1A. Recommended: Psychology 1B.
Fall and Spring (3)

UPPER DIVISION COURSES

105 Mental Testing
A brief history of intelligence testing and the fundamental assumptions underlying the construction of tests. The Stanford revision of the Binet-Simon test illustrated by demonstrations. Each student required to give at least 20 individual tests. Group intelligence tests discussed and demonstrated. Prerequisites: Psychology 1A and Education 106. Recommended: Psychology 1B, 102, Education 140.
Fall (3)

118 Mental Hygiene
Problems, personality adjustment, emotional problems, attitudes, conflicts, neurotic behavior, conduct disorders of both child and adult. The beginnings of undesirable attitudes and habits and methods of treating them are stressed more than serious cases of maladjustment which are either incurable or problems for a psychiatrist. The methods of building wholesome personality are emphasized more than the analysis of extreme disorders. Prerequisite: Psychology 1A. Recommended: Psychology 1B, 102.
Fall or Spring (3)

145 Social Psychology
Steinmetz
Personality as it develops in relation to social environment. Suggestion, Personality as it develops in relation to social environment. Suggestion, imitation, leadership, the crowd, public opinion, social control, prejudice, sex differences, race differences, etc. Prerequisite: Psychology 1A. Recommended: Psychology 4A.
Fall and Spring (3)

150 Abnormal Psychology
Steinmetz
The relation of psychology to the psycho-neurosis and insanity; the appearance of abnormal traits in incipient stages of mental disturbances. Methods of diagnosis and early treatment.
Spring (3)

160 Experimental Psychology of Learning
Introduction to instrumental and comparative psychology and to methods of research in the development of behavior theory. Prerequisite: 2 units of other work in the department and consent of the instructor; required for those seeking a major.
Fall (3)

SECRETARIAL TRAINING

LA Business Mathematics
Bromley
A practical course in the mathematics of business. A thorough study of interest, compound interest, discount, amortization tables, insurance rates, etc.
Fall and Spring (1) (No degree credits in Liberal Arts curricula)

L1A-L1B Typewriting
Amsden
A rapid development of a thorough command of a keyboard by the touch method. The acquisition of speed and the artistic arrangement of type. The written material with special reference to commercial forms, tabulation and billing; specifications, legal forms, and preparation of manuscripts; transcription, mimeographing, etc. Eight hours lecture and laboratory practice.
ENGLISH IN BUSINESS

(See English, page 81)

SOCIAL SCIENCES

Lower division preparation for the liberal arts major in social science: Fulfillment of the departmental requirements for upper division work in at least three of the following sciences: Anthropology, economics, geography, history, political science, sociology.

Liberal arts major (upper division) in social science, required: Twenty-four units of upper division work including a concentration of twelve upper division units in one of the following fields and six units in each of two others: Anthropology, economics, geography, history, political science, sociology.

This major is available only to students who are preparing for graduate work in anthropology, political science, or sociology, and to those enrolled in certain preprofessional and other curricula. Official approval for candidacy for a degree with a social science major must be obtained from the dean of liberal arts.

L2A Typewriting

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

Spring (2)

L3A Office Methods and Appliances

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

Fall and Spring (3)

L5A-L5B Stenography

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

Year course (5-5)

L6A-L6B Advanced Stenography

Development of speed in writing and transcription. Advanced dictation on better forms, legal forms, speeches, and literary and technical material.

Year course (3-3)

SOCIAL SCIENCES—ANTHROPOLOGY

Fall and Spring (3)

1B American Trends Since 1918

Greer

Main currents of American life since the World War. Stress on immediate background of modern institutions. Aims to familiarize students with the major events which have occurred during the lifetime of the present college generation.

Fall and Spring (3)

L40 Contemporary Problems

Greer, Lyons

A survey of the major political, social, and economic forces in modern American life. Chief problems are analyzed in relation to their setting, and students are given sound methods of approach in dealing with them. Note the designation for this course has been changed from 5 to L40.

Fall and Spring (3)

ANTHROPOLOGY

Lower division preparation for the liberal arts major in social science with concentration in anthropology: Anthropology 50A-50B, Sociology 50A, 50B, Geography 1, 2. Recommended: Geology 1A-1B, Economics 1A-1B. See requirements for the social science major, page 120.

LOWER DIVISION COURSES

50A-50B Man's Evolutionary History

Rogers


Year course (3-3)

54 Social Anthropology

Rogers

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

Spring (3)

55 Culture History

Rogers

The prehistoric and historic development of culture types contributing to the present civilization of the United States. Contributions of Egypt and Mesopotamia to Western European and American civilization of today. Egyptian, Mesopotamian, and Hellenistic influences on American culture. The evolution of family organization, religion, property right, and government traced in elementary and advanced civilization. Ritualism and education considered as processes of culture conservation and social control.

Fall (3)

UPPER DIVISION COURSES

151A The American Indian: North American

Rogers

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

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

(121)
151B The American Indian: Middle America
The development of civilization in Pre-Columbian Mexico and Central America: Aztec, Mayan, and related cultures.
Spring (3) (Offered in 1940-41 and alternate years)

152 Primitive Cultures (Ethnology)
History and cultural development of primitive races of mankind. Consideration given to industries, arts, social organization, and religion of living primitive peoples.
Fall (3) (Offered in 1941-42 and alternate years)

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

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

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

Liberal arts major in economics, 24 upper division units required as follows; Economics 100, 102 or 111, 135, 139, 140, and 190, with 6 additional units selected from Economics 102 or 111, 107, 123, 131, 133, 135, 190, 171 and 174. Electives: 8 additional upper division units in economics. Political Science 15A-15B may be substituted for elective units in economics.

Commerce Candidates for a teaching credential in business education should refer to the statement "Admission to Teacher Training Curriculum" on page 29 and to the curriculum for the A.B. degree with a special credential in Business Education on pages 14 to 39.

Lower division preparation for the liberal arts major in commerce and for the junior certificate: Economics 1A-1B. 1A-1B (6 units), 18A-18B; English 1B, 2 or 3; Geography 10A-10B, Mathematics D, or equivalent, and Economics 2; History 4A-4B or 8A-8B or Political Science 1A-1B or 71A-71B. Recommended for concentration in insurance: Political Science 11A-71B; Merchandising L5A.

Liberal arts major in commerce, 24 upper division units required. Economics 111, 121, 140, 190 required with 12 additional units chosen in the following groups:
B. Banking and Finance: Economics 183, 185 and 6 units selected from Economics 107, 131, 133, 137.

D. Business Administration: 6 units selected from Economics 123, 137, 14B, 159. Electives: 6 additional upper division units in economics.

LOWER DIVISION COURSES

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

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

1L0A-1L0B Business Economics
Watenpaugh
A basic course in the general principles of business economics and the application of these principles to current problems of man's economic life. A coordinated description of economic conditions, circumstances and forces which are of general significance throughout the business world. The development of theory as an interpretation of and guide to practice. Emphasis placed on actual business and financial operations and matters of everyday business experience which may serve as guides for individual conduct and the development of social policy. Human wants and their satisfaction; organization and purpose of businesses; how prices are determined; money, credit and business; taxation; principles of consumption; government and business. Wealth, value, capital, rent, interest profits; etc. Not open to freshmen.
Year course (3-3)

14A-14B Accounting
Wright
A knowledge of bookkeeping not required and not advantageous. The balance sheet; profit and loss statement; various types of books of original entry; the opening, conducting, and closing of books for different types of business; organizations, reorganizations, dissolutions, and continuance of business; accounting and reporting of financial statements; accounting and reporting of financial statements; accounting and reporting of financial statements. Five hours lecture and laboratory.
Year course (3-3)

L15A-L15B Elementary Accounting
Watenpaugh
An introductory course in the fundamental principles of accounting; opening and closing books of different kinds of business; recording business transactions; opening and closing books of different kinds of business; recording business transactions; opening and closing books of different kinds of business; recording business transactions; opening and closing books of different kinds of business; recording business transactions. Balance sheet; profit and loss statement; bookkeeping and accounting practice. One hour lecture and one hour laboratory.
Year course (3-3)
A comprehensive survey of American economic development and national legislation in the field of industry.

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

134 Investments  Cameron
Investment principles and practices with emphasis upon problems of the small investor, such as tests of a good investment, sources of information, types of stocks and bonds, mechanics of purchase and sale, investment trusts, real estate mortgages, and the like.
Spring (2)

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 (2)

137 Credits and Collections  Cameron
The credit man and his work, including the instruments with which he works, sources of credit information, the technique of his department, collection methods, legislation for the protection of debtor and creditor, and credit insurance.
Fall (3) (Offered in 1940-41 and alternate years)

140 Statistical Methods  Jordan
The nature and use of statistical method in the social sciences. Practice in tabular and graphic presentation of data; analysis of frequency and time series; index number construction and study of correlation techniques. Prerequisite: Mathematics A and D, or equivalent.
Fall and Spring (3)

142 Business Fluctuations and Business Forecasting  Jordan
Fundamental factors in business cycles are analyzed and cycle theories are examined. Study of current business conditions begins early in the course and develops into practical application of forecasting methods to both business and other data. Prerequisite: Economics 140.
Spring (3) (Offered in 1940-41 and alternate years)

150 Labor Problems and Industrial Relations  A. G. Peterson
A discussion of employment, hours, wages, working conditions, insurance, pensions, workers' compensation, labor organizations, and labor legislation. Organization of personnel functions; selective devices, training and safety programs, compensation plans, morale.
Fall (3) (Offered in 1941-42 and alternate years)

160A-160B Advanced Accounting  Wright
An intensive study of the corporation, its accounting and financial problems; a thorough study of the balance sheet; depreciation; factory accounting, etc. Under practical accounting an endeavor is made to design, construct, and operate sets of books to meet the needs of different conditions and kinds of businesses. Six hours lecture and laboratory. Prerequisite: Economics 14A-14B.
Year course (3-3) (Offered in 1940-41 and alternate years)

161 Cost Accounting  Wright
Principles and methods of cost accounting in the mercantile establishment and in the factory. A study of bookkeeping procedure, the forms used, and their application to practical problems. Prerequisite: Economics 14A-14B.
Fall (3) (Offered in 1941-42 and alternate years)

162 Accounting Systems  Wright
The accounting systems used in various types of business and financial concerns. Some practice in devising and installing systems. Prerequisite: Economics 14A-14B.
Spring (3) (Offered in 1941-42 and alternate years)

164 Income Tax Procedure  Wright
A consideration of the problems arising from the Federal income tax. The problems are approached from the point of view of the taxpayer who desires to determine the exact application of the law to the interests he represents as well as from the accounting point of view. No knowledge of accounting procedure is necessary.
Fall (3) (Offered in 1941-42 and alternate years)

165A-165B Auditing  Wright
The fundamental principles of accepted procedures of auditing and related types of accounting engagements.
Year Course (3-3) (Offered in 1940-41 and alternate years)

167 Governmental Accounting  Wright
A comparative study of accounting systems used by municipalities, counties, and the State of California; detailed comparisons with commercial practice; procedures in handling budget accounts, appropriations, and encumbrances; subsidiary records; cost records; internal checks; auditing.
Spring (3) (Offered in 1941-42 and alternate years)

171 Transportation  Cameron
The development of railway transportation; railroad financing; rates and rate making; governmental regulation; government operation of railroads during the war; recent development of motor and air transportation; current problems in public utilities. Prerequisite: Economics 1A-1B.
Spring (3) (Offered in 1941-42 and alternate years)

195 International Economic Relations  A. G. Peterson
A brief treatment of certain geographical, sociological, and legal phases of international relations followed by a study of the commercial and industrial basis of world economy touching upon a number of special problems involved. An introductory study of materials covering the processes involved. A discussion of the principles and policies of international trade. The course concerns itself primarily with the economic basis of international relations, but political aspects are almost constantly taken into account in recognition of the

(126)
SOCIAL SCIENCES—GEOGRAPHY

fact that international relations are frequently political in form but economic in content.

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

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

Fall and Spring (1-1)

199A-199B. Special Study The Staff
Designed exclusively for seniors with a major in economics or commerce.

Fall (1), Spring (2)

SOCIAL SCIENCES—GEOGRAPHY

GEOGRAPHY

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

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

LOWER DIVISION COURSES

1 Introduction to Geography: Elements L. C. Post, Richardson, Storm
The nature of maps; weather and climates of the world; land forms and their associated soils, with reference to their climatic relationships; the seas and their coasts. Open to all students.

Fall and Spring (3)

2 Introduction to Geography: Natural and Cultural Regions L. C. Post, Richardson, Storm
The regional differentiation of the world by human activity; areal bases of economy and nationality. Prerequisite: Geography 1.

Fall and Spring (3)

3 Elementary Meteorology Blake
An elementary study of the earth's atmosphere and changes in it which produce our weather and influence human affairs. Special attention given to local conditions, instruments, and records. Aeronautical meteorology stressed in the fall semester.

Fall and Spring (3)

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

Fall (3)

10A-10B Economic Geography L. C. Post
Beginning course in economic geography limited to students in commerce and prospective economics majors. Not open to students who have had Geography 1 and 2.

Fall and Spring (3-3)

L40A-L40B Introduction to Geography
An introductory descriptive course designed to acquaint students with the general features of the various regions of the world. Presents the climatic regions of the world with a description of what man has done with the resources of each. Develops a background for the interpretation of world problems and world happenings. Note the designation for this course has been changed from 5A-5B to L40A-L40B.

Year course (3-3)

SOCIAL SCIENCES—GEOGRAPHY

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)

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

Spring (3)

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

Spring (3)

117 Geography of Northern and Eastern Europe L. C. Post
A study of the cultural development of the countries of northern and eastern Europe in relation to physical background and historical evolution. Prerequisite: Geography 1.

Fall (3)

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

Spring (3)

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

Fall (3)

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

Spring (3)

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

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

166 Honors Course L. C. Post
To be arranged after consultation
Fall and Spring (Credit to be arranged)

HISTORY

LOWER DIVISION COURSES

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

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

UPPER DIVISION COURSES

111A-111B Ancient History Lesley
Semester I—Social, economic, political and cultural development of the Greek states, with emphasis upon the growth of democracy, attempts at federal union and imperialism, Hellenism.
Semester II—Roman history to the beginning of the medieval period; discussions of Roman imperialism and the main constitutional, economic, social and religious developments in the republic and empire.
Year course (3-3) (Offered in 1941-42 and alternate years)

SOCIAL SCIENCES—HISTORY

121A-121B Medieval History Osborn
General survey of European political and cultural development between 500 and 1500 A.D., with special attention to intellectual tendencies and the development of institutions which culminated in the emergence of modern Europe after 1500.
Year course (3-3) (Offered in 1940-41 and alternate years)

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

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

146A-146B Diplomatic History of Europe Since 1648 Lesley
A course centering around the four major European treaties, their background, drafting and results. First semester, the Treaty of Westphalia, Utrecht and Vienna. Second semester, the Treaty of Versailles.
Year course (3-3) (Offered in 1940-41 and alternate years)

147 History of Modern France Lesley
Intensive survey of the political and social development of France under the Third Republic, 1870 to the present. International and colonial problems of modern France will also be considered.
Fall (3) (Offered in 1940-41 and alternate years)

148 History of Modern Germany Lesley
Political, social and economic development of Germany after 1870, the Empire and Republic. German post-war problems, imperialism, and the establishment of the Third Reich will receive special attention.
Spring (3) (Offered in 1940-41 and alternate years)

151A-151B England Since the Norman Conquest Nasatir
A survey of political and constitutional development in England since 1066, stressing the transition from medieval to modern England, Tudor despotism, the struggle for self-government under the Stuarts, the rise and development of present-day political and social institutions.
Year course (3-3) (Offered in 1941-42 and alternate years)

156A-156B History of British Expansion Nasatir
A study of the growth, development, and break-up of the older overseas empire; the beginnings of the newer empire after 1783; the rise, federation, and imperial relations of the British Commonwealth of Nations; the crown colony system; India under British rule; and British expansion in Africa and the Pacific; development of British mandates.
Year course (3-3) (Offered in 1940-41 and alternate years)

161 South America Since Independence Nasatir
The republics of South America. Attention directed to the development of nationalism in South America, the struggles for political stability, the exploitation of resources, diplomatic and commercial relations with the (131)
United States, and other international problems of South America. Survey of present-day conditions, political, economic, and social.
Spring (3)

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

171A-171B The Rise of the American Nation Leonard
Semester I: English colonization in North America and the development of colonial institutions and politics. Semester II: The revolutionary movement and the Revolutionary War; the establishment of the government under the Constitution to the close of the War of 1812.
Year course (3-3) (Offered in 1940-41 and alternate years)

173A-173B The Expansion of the United States Leonard
The rise of Jacksonian Democracy; territorial expansion and the Mexican War; the slavery controversy; the Civil War, and reconstruction; the growth and progress of the United States to the World War.
Year course (3-3) (Offered in 1941-42 and alternate years)

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

POLITICAL SCIENCE

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

It is suggested that students who expect to major in political science plan their lower division work to include both Political Science 1A-1B and 71A-71B, and either Economics 1A-1B or History 4A-4B.

LOWER DIVISION COURSES

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

L45 American Democracy Greer
The structure and function of government, as it relates to individual Americans. Special emphasis on popular participation through voting, political parties, pressure groups, and public opinion. Prerequisite: Sophomore Standing. Note the designation of this course has been changed from 50 to L45.
Spring (3)
SOCIAL SCIENCES—SOCILOGY

zation. Special attention will be given to the organization and development of the League of Nations, its machinery, accomplishments and failures, and to national attitudes toward cooperation since the war.

Spring (3)

143A-143B Principles of Public Administration in the United States Osborn
A study of the development of executive agencies in the American federal government and the relationship between these agencies and the changes in American concepts concerning the proper field of governmental activity.
Year course (3-3) (Offered in 1941-42 and alternate years)

175A-175B—American Constitutional Development Leonard
A study of the work of the Convention of 1787, and of significant phases of American constitutional law.
Year course (3-3) (Offered in 1941-42 and alternate years)

SOCIOLOGY
Lower division preparation for the liberal arts major in social science with concentration in sociology: Sociology 50A, 50B; Economics 1A-1B and one of the following year courses: Anthropology 50A-50B; Political Science 1A-1B, 71A-71B. See requirements for the social science major, page 120.

LOWER DIVISION COURSES

Fay V. Perry
This course is planned to help orient the student to college life, to help him expand his interests and enrich his personality, to help him gain knowledge of himself and others that will aid him in recognizing and solving his problems in the areas of personal, social and family relationships.

Fall and Spring (3)

L40B
The purpose of this course is to prepare young people for successful marriage and family life. Provision is made for a thorough study of both human and material resources that contribute to the welfare of family members. Special attention will be given to the units concerned with personality development through family life, the social significance of late adolescence, choice of a life partner and courtship, the establishment of a home and the social and economic factors involved.

Prerequisite: Sophomore standing. Enrollment by permission of instructor.

Spring (3)

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 Kelly
A study of the nature and organization of human group activity, including the relation of cultural heritage to public opinion and social change. Previous preparation in biology and psychology recommended.

Fall and Spring (3)

55 Modern Marriage and the Family Fay V. Perry
A psychological and sociological interpretation of courtship, marriage, and family life. The course is explicitly directed toward helping young people solve their problems in the areas of personal, social, and family relationships. Prerequisite: Health Education 1 or 2, Biology 1 or 1A-1B, Psychology 1A. (These courses may be taken concurrently with Sociology 55.)

Spring (3)

UPPER DIVISION COURSES

100 General Sociology Barnhart
A course in general sociology for upper division students. The development and use of the concepts of sociological analysis, such as human nature, the effects of isolation and social contacts upon the development of personality; social interaction; social processes; social forces; social control; collective behavior; and social progress. Not open to students who have credit for Sociology 50B.

Spring (3)

105 Social Pathology Barnhart
A study of the alleged abnormal phenomena in society; family disorganization and personal demoralization; pathology of individual and group relationships and of economic, social, and cultural relationships.

Fall (3)

106 Criminology and Penology Barnhart
The extent and characteristics of crime; consideration of physical, mental, economic, and sociological causes of crime; study of methods of penal discipline, prison labor, parole, and probation; programs of prevention.

Spring (3)

108 The Family Barnhart
History of marriage and family as a social institution. Effects of various economic and social factors on the modern family; higher education and economic factors on the modern family; effects of vocation and family on education; causes of birth rate: marriage; women in industry and professions; causes of divorce and desertion; and their sociological effects. Not open to students who have credit for Sociology 55.

Fall (3)

109 Fields of Social Work Barnhart
A survey of the nature of social work and the various kinds of social work which are found in modern urban life. The student is familiarized with the various social agencies in the community, their problems and services, and with the various social agencies in the community, their problems and solutions. Some social agency recommended.

Spring (3)
SPEECH ARTS

126 Social Reform Movements
Greer
A study of organized efforts to change social institutions in the United
 States since 1865. Emphasis given to backgrounds, objectives, tech-
niques, and relationship to democracy of each movement.
Fall (3)

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

199A-199B Special Study
Barnhart
The student is introduced to the methods and techniques used in
the scientific investigation of society, such as the historical, statistical, case-
study, personal history, survey, and other methods of social investigation.
Actual practice in doing various types of field studies is required.

SPEECH ARTS

199A-199B Special Study
Barnhart
The student is introduced to the methods and techniques used in
the scientific investigation of society, such as the historical, statistical, case-
study, personal history, survey, and other methods of social investigation.
Actual practice in doing various types of field studies is required.

105B, 11A-11B; Physical Education 164A-164B; Spanish 105A,
117B, 151A-151B. Recommended: English 110, 110B; French 105A-
105B, 110A-110B; German 110A-110B; Spanish 105A.

Lower division preparation for the major in Speech Arts: Speech Arts
IA-1B, 55A-55B, and six units chosen from 1C-1D, 55C-55D, 60B, 65A-
65B-65C-65D. Recommended: Aesthetics 1A-1B, 50; Art 52A, 94.

Liberal Arts major (upper division): Twelve units chosen from Speech
Arts 150, 155A-155B, 156A-156B, 163A-163B; and six units from Speech
Arts 177A-177B, 175, or 163A-163B; and six units from English 117A-
117B, 152A-152B. Recommended: English 110, 110B; French 105A-
105B, 111A-111B; Physical Education 164A-164B; Spanish 105A.

Candidates for the teaching credentials in Speech Arts should refer to
"Admission to Teacher Training Curricula" on page 28 and to the cur-
culum for the A.B. degree with the Special Secondary Credential in
Speech Arts on page 47 or to the curriculum leading to the Special
Credential in Correction of Speech Defects on page 48.

LOWER DIVISION COURSES

1A Fundamentals of Public Speaking
Johnson, Pfaff
Training in fundamental processes of oral expression; methods of obtain-
ing and organizing material; outlining principles of attention and delivery;
extraneous speaking and open forum debating; practice in construction
and delivery of type forms of speech.
Fall and Spring (3)

1B Extemporaneous Speaking (or Forum Speaking)
Pfaff
Practice in extemporaneous speaking on subjects of current interest both
national and local, with stress laid on the organization and delivery of
content material. Forum discussion will provide speakers with the
opportunity of assembling facts quickly to meet such questions as any
audience situation might demand.
Spring (3)

1C Oral Interpretation
Pfaff
The oral interpretation of longer literary selections, both in poetry and
prose; a fundamentals course designed for the beginning students in
drama as well as those majoring in English literature.
Fall (3)

1D Advanced Interpretation
Pfaff
Emphasis placed on stage poise and grace with adequate attention given
to variations in the presentation of literary selections. Much opportunity
is provided for individual and group creative work. No prerequisite.
Class limited.
Spring (3)

20 Corrective Speech
Pfaff
Corrective laboratory training prescribed on the basis of vocalisation tests
made on Electro-Vox Recording Machine. Required of education majors
who fail to meet speech requirements test. Private clinical assistance
given to stutterers and lisppers.
Fall and Spring (1) (9 weeks' course)

L50 Fundamentals of Public Speaking
Peiffer
Training in fundamental processes of oral expression; practice in organi-
sation and presentation of material; emphasis upon speech in daily
situations, including public discussion, conversation, recitation, extrap-
oration speaking, and short speeches for special occasions. Note the
designation of this course has been changed from 5 to L50.
Fall and Spring (3)

55A-55B Dramatic Production
Jones
A course for first and second year students in which, through participa-
tion, they acquire an understanding of certain dramatic periods and types
studied in English literature. Individual and group expression coordi-
nated and developed in production of scenes, acts, and plays—a funda-
mental drama course emphasizing modern trends. No prerequisite.
Year course (3-3) (Offered in 1941-42 and alternate years)

55C-55D Dramatic Expression
Jones
A course designed to help first and second year students realize and
develop their own abilities for expressing character and life. Coordina-
tion of thought, voice, and body, acquired through interpretation, impres-
sionism, and acting of contemporary situations, creative and standard
scenarios, and acting of contemporary situations, creative and standard
scenarios, and acting of contemporary situations, creative and standard
scenarios, and acting of contemporary situations, creative and standard
scenarios, and acting of contemporary situations, creative and standard
scenarios, and acting of contemporary situations, creative and standard
scenarios, and acting of contemporary situations, creative and standard

61A-61B-61C-61D Intercollegiate Debate
Peiffer
Year course, each year (1)

(136)
SPEECH ARTS

83A-B-C-D Verse Choir  Jones
Participation in verse speaking chorus to develop quality, range of tone, and ability in dramatic visualization of poetry. Required for speech arts credential.
*Fall and Spring (1-1)*

UPPER DIVISION COURSES

110 Recreational Reading  Dickhaut
See English, page 81.

116B The Elizabethan Drama  Adams
See English, page 81.

117A Shakespeare  F. L. Johnson
See English, page 81.

117B Advanced Shakespeare  F. L. Johnson
See English, page 81.

150 Phonetics  Pfaff
Auditory and kinaesthetic analysis of the sounds of the English language. Valuable as a corrective course in pronunciation and articulation. Required of speech majors and those seeking Speech Correction Credential.
*Fall (2)*

152A Survey of Drama: Comedy  V. M. Evans
See English, page 81.

152B Survey of Drama: Tragedy  V. M. Evans
See English, page 81.

155A-155B Advanced Dramatic Expression  Jones
For upper division students training for leadership in different fields as well as drama. More advanced forms of dramatic expression studied; creative abilities in interpretation, writing, acting, and stagecraft developed in relation to various subjects and activities conducted through individual research projects, group discussion and participation. Original work encouraged. Prerequisite: A fundamental drama course.
*Year course (3-3) (Offered in 1941-42 and alternate years)*

156A-156B Advanced Dramatic Production  Jones
The study of more difficult dramatic types and periods in the production of poetic and prose literature of different countries. Arrangement, organization, creation, direction and presentation of class room, recreational and other forms of performances. Practical participation and demonstration. A course designed for students majoring in other subjects as well as the theater arts.
*Year course (3-3) (Offered in 1940-41 and alternate years)*

157A-B Radio Production  Jones, Swanson
Preparation and production of radio plays and various types of radio material.
*Fall and Spring (3-3)*

163A Rhythm, Pantomime and Choric Verse  Jones
A course combining bodily movement with group speaking. Presents the fundamentals of rhythm and pantomime in different forms of dramatic expression.
*Spring (3) (Offered in 1941-42 and alternate years)*

163B Advanced Rhythm, Pantomime and Choric Verse  Jones
Continuation of above.
*Spring (3) (Offered in 1940-41 and alternate years)*

175 Major Speech Disorders  Pfaff
Clinical survey of newest methods of speech correction with special emphasis given to stammering and cleft-palate speech. One of required courses for Special Corrective Credential.
*Spring (3)*
DIRECTOR

FACULTY

For the Year 1939-1940

WALTER R. HEPNER, Ed.D.—President.

JOHN R. ADAMS, Ph.D.—Associate Professor of English.

GEORGIA C. AMSDEN—Associate Professor of Commerce.

VERA B. ARNOLD, M.A.—Training Supervisor; Instructor in Art-Music.

J. W. AULT, M.A.—Dean of Education; Professor of Education.

GUINIVERE E. BACON, M.A.—Training Supervisor; Associate Professor of Education.

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

CLIFFORD H. BAKER, Jr., M.A.—Instructor in Spanish and French.

KENNETH E. BARNHART, Ph.D.—Assistant Professor of Economics.

MURIEL BENNETT, M.A.—Instructor in Physical Education.

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

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

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

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

MILDRED BURLINGAME, Ph.D.—Assistant Professor of Psychology.

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

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

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

JAMES E. CROUCH, Ph.D.—Associate Professor of Biology.

MARVIN L. DARSIE, Jr., Ph.D.—Instructor in Biology.

E. C. DEPUTY, Ph.D.—Associate Professor of Education.

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

GEORGE EDGAR DOTSON, Ed.D.—Registrar and Director of Student Personnel; Associate Professor.

*VIOLA M. EVANS, Ph.D.—Instructor in English.

* Junior college.

DIRECTORY

JOHN GLEASON, M.A.—Assistant Professor of Mathematics.

*THOMAS H. GREER, Ph.D.—Instructor in Social Science.

MORRIS H. GROSS, B.A.—Director of Athletics; Associate Professor of Physical Education.

ILSE HAMANN, M.A.—Assistant Professor of Art.

EDITH C. HAMMACK, B.A.—Training Supervisor; Associate Professor of Education.

ISABELLA STEWART HAMMACK, M.A.—Training Supervisor; Assistant Professor of Education.

DOROTHY R. HARVEY, M.A.—Assistant Professor of Botany.

ROBERT D. HARWOOD, Ph.D.—Professor of Zoology.

LOWELL D. HOUSER—Instructor in Art.

EVERETT G. JACKSON, M.A.—Associate Professor of Art.

MARY LOUISE JANNOCH, M.A.—Instructor in Biology.

FRANK LOUIS JOHNSON, Ph.D.—Instructor of English.

MYRTLE JOHNSON, Ph.D.—Professor of Biology.

SYBIL ELIZA JONES, M.L.—Assistant Professor of Speech Arts.

HARRY J. JORDAN, Ph.D.—Associate Professor of Commerce.

JOSEPH S. KEENEY, Ph.D.—Assistant Professor of English.

GENEVIEVE KELLY, A.M.—Assistant Professor of Library Sociology.

CHESTER B. KENNEDY, A.M.—Assistant Professor of English.

JULIUS LEIB—Assistant Professor of Instrumental Music.

CHARLES B. LEONARD, Ph.D.—Professor of History.

LEWIS B. LESLEY, Ph.D.—Professor of History.

GEORGE ROBERT LIVINGSTON, M.A.—Associate Professor of Mathematics.

WILLIAM H. LUGIO, M.A.—Assistant Professor of Education.

*WILLIAM J. LYONS, M.A.—Assistant Professor of Social Science.

RICHARD MADDEN, Ph.D.—Principal of the Training School; Associate Professor of Education.

MARY MENDENHALL, Ph.D.—Dean of Women; Associate Professor of Guidance.

ELMER A. MESSNER, M.A.—Assistant Professor of Chemistry.

CHESNEY R. MOE, A.M.—Assistant Professor of Physics.

A. P. NASATIR, Ph.D.—Professor of History.

* Junior college.
DIRECTORY

AMBROSE R. NICHOLS, Jr., Ph.D.—Instructor in Chemistry.
MARGUERITE NORDAHL, M.A.—Training Supervisor; Assistant
Professor of Education.
RUTH POWERS ORTLIEB, A.B.—Instructor in Art.
CLARENCE G. OSBORN, Ph.D.—Assistant Professor of History and
Political Science.
LENA E. PATTERSON, M.A.—Associate Professor of Art.
ESTHER E. PEASE, B.E.—Assistant Professor of Physical Education.
*HERBERT C. PEIFFER, Jr., Ph.D.—Instructor in Psychology.
*FAY V. PERRY, M.A.—Dean of Junior College Guidance; Assistant
Professor of Sociology.
RAYMOND CARVER PERRY, Ed.D.—Director of Teacher Training
and Placement; Associate Professor of Education.
ARTHUR G. PETERSON, A.M.—Dean of Liberal Arts; Professor of
Economics.
CHARLES E. PETERSON, M.A.—Dean of Men; Director of Physical
Education for Men; Associate Professor.
P A U L L. PFAFF, M.A.—Assistant Professor of Speech Arts.
WALTER T. PHILLIPS, M.A.—Associate Professor of Spanish and
French.
KATHREIN POST, M.A.—Training Supervisor; Assistant Professor
of Education.
LAUREN C. POST, Ph.D.—Assistant Professor of Geography.
EDITH ESTHER REDIT, M.A.—Training Supervisor; Instructor in
Education.
ROBERT W. RICHARDSON, A.B.—Assistant Professor of Geography.
DUDLEY H. ROBINSON, M.S.—Associate Professor of Chemistry.
SPENCER LEE ROGERS, Ph.D.—Assistant Professor of Anthropology.
MARION LYON SCHWOB, M.S.—Associate Professor of Physical
Education (Women).
FLORENCE I. SHAFFER, M.S.—Instructor in Physical Education.
CORNELIUS H. SIEMENS, Ph.D.—Assistant Professor of Education.
CHARLES R. SMITH, A.B.—Instructor in Physical Education.
CLIFFORD E. SMITH, Ph.D.—Assistant Professor of Astronomy.
DEANE F. SMITH, M.Mus.—Assistant Professor of Music.
LEILA DEBORAH SMITH, M.A.—Professor of Music.
FLORENCE LOUISE SMYTHE, M.A.—Assistant Professor of Art.

* Junior College.

SPECIAL LECTURERS

RAY C. LOUNSBERY, M.D.
JAMES A. MAY, M.D.
H. G. MERRILL, M.D.
FRED PYLE
R. H. SUNDBERG, M.D.
CHESTER H. WEBBER, D.D.S.

AFFILIATED CITY SCHOOLS

HELEN K. SYLVESTER, Principal..................Euclid School
LEE L. BLOOMESHINE, Principal....................Woodrow Wilson Junior High School

MEDICAL STAFF

O. S. HARBAUGH, M.D...........................Medical Examiner (Men)
DIRECTORY

BERENICE I. STONE, M.D. .................................. Medical Examiner (Women and Training School)

MARI LYNN M. FENWICK, R.N. ................................ Nurse

LIBRARY STAFF

JOHN PAUL STONE, M.S. in Library Science .................................. Head Librarian

GERALDINE K. HAYNES, A.B., B.S. ................. Senior Librarian

ELSIE L. ROY, A.B. ............................................. Senior Librarian

MARGARET HELEN GEORGE, A.B. and Certificate in Librarian-ship ................. Senior Librarian

LULU GERMANN, B.S. ............................................. Senior Librarian

GENEVIEVE KELLY, A.M. ........................................ Senior Librarian

LOUISE LYDA, A.B. ............................................. Library Clerk

HARRIET B. STOVALL. ............................................. Senior Librarian in Charge of Training School Library Department

WINIFRED B. STONE, A.B. ................................ Secretary to the Librarian

ASSOCIATE MEMBERS OF THE FACULTY

DEAN BLAKE, Instructor in Meteorology .................................. Meteorologist, United States Weather Bureau, San Diego

MARIAN EVANS, B.S., Instructor in Education .................................. Director of Visual Education Activities, San Diego City Schools

GEORGE D. HUFF, M.D. ............................................. Associate Professor of Health and Hygiene

SEYMOUR W. WURFEL, B.A., LLB. .................................. Instructor in Law

E. A. ROSS, A.B. ............................................... Assistant Professor of Aeronautics

ASSISTANTS

JOHN BRINEGAN, JR., B.A. ...................................... Geology

MARIE B. COOK, A.B. .......................................... English

CARL H. ENGLER, M.S. ........................................ Biology

MELVYN K. ROSS, A.B. ........................................ Chemistry

CHARLES E. SWANSON ............................................. Journalism

MEMBERS OF THE JUNIOR COLLEGE FACULTY

VIOLA M. EVANS, Ph.D. ........................................ Instructor in English

THOMAS H. GREER, Ph.D. ........................................ Instructor in Social Science

MARY L. JANNOCH, M.A. ........................................ Instructor in Biology

ADMINISTRATIVE OFFICE STAFF

FLORENCE SCHUMANN ............................................ Secretary to the President

DARE YOUNG ........................................................ Assistant Registrar

MADOLYN BARNES, B.A. ........................................ Recorder

MARION L. CAMPBELL, M.A. .................................... Statistician

ELIZABETH V. KING, B.A. ........................................ Secretary to Registrar

V. W. VAN HORNE ............................................... Financial Secretary

TIMOTHY HALAHAN, A.B. ...................................... Property Clerk

KATHERINE M. PYLE, A.B. .................................... Assistant Financial Secretary

FLORENCE SCHNEIDER ............................................ Telephone Operator

MILDRED ANN ROBERTSON, A.B. ................................ Secretary to the Director of Placement

BETTY JETER, A.B. .............................................. Placement Clerk

FLORENCE WIGGINS .............................................. Secretary of the Training School

MAINTENANCE STAFF

C. L. FISK ......................................................... Superintendent of Buildings and Grounds

WILLIAM DUNS .................................................. Head Gardener

ALBERT L. SEELIG .............................................. Engineer
INDEX

A.B. degree, see Bachelor of Arts degree
Accountancy, two-year curriculum, 65
Accounting courses, see commerce courses
Accounting and secretarial training subfield, special credential in business education, curricula for, 35
Administration and supervision credential, 31
Administrative offices, staff of, 145
Admission
Registration, 16-22
Requirements: adult specials, 16, advanced standing, freshmen, 15, former students who withdrew during semester, 21
Teacher training, 21, 28, 33
Adult specials, requirements for admission, 16
Advanced standing: admission for students with, 15; fee for evaluation, 14, 16; teacher training, 28; maximum units in education allowed for old work, 24
Advertising courses, see merchandising courses
Aesthetics courses, see also music courses; required for applied secondary in music, 40
Aptitude tests, except for from requirement, 16; fee for, 14; required at registration, 19; required for teacher training, 28
Art
Courses, description of, 71; see also aesthetic courses and education courses
Credential, special secondary, curriculum for, 37; grades covered, 31
Major for A.B. degree in liberal arts, 25, 94
Two-year curriculum, 65
Assistants, list of, 144
Associate members of faculty, list, 144
Astronomy, courses preparatory for advanced work, 119; description of courses, 110
Auditors, fees for, 17; registration of, 17
Bachelor of Arts degree
General requirements, 23-25
Liberal arts
Limited electives, limitation of credit for A.B., 27
Majors, 26; see also statement of majors under courses of instruction
Minors, 26
Political science required, 26
Professional and preprofessional, 31-35
Requirements, 22-27
Teacher Training
Admission to teacher training, 21, 28, 33
Credentials, 31; see also credentials
Administration and supervision, 31
Art special, 37
Business education special, 38; accounting and secretarial training subfield, 35; general business subfield, 35
Combination of credentials, 33
Elementary school, 33
Junior high school, 35
Music special, 40
Physical education special, men, 43; women, 45
Speech Arts, special secondary, 47
Speech Correction, 48
Limited electives, limitation of credit for A.B., 27
Requirements, 23-25, 28-48
Bachelor of Education degree, application for candidacy, 50; effective dates for, 50; general requirements, 49; nature of work and fields of study, 49; purpose of degree, 49; residence requirements, 49
Bacteriology course, description of, 52
Biological science, see Life science
Biology courses, description of, 91
Botany, courses preparatory for advanced work, 91; description of courses, 93
Buildings and equipment, description of, 10
Business education, special credential in,
Curricula for: accounting and secretarial training subfield, 35; general business subfield, 35
Grades covered, 31
Calendar, 1940-41, 7-8
INDEX—Continued

Campus, description, 10.
Campus elementary school, facilities for training of teachers, 10; library, 11.
Certificate, junior, see junior certificate.
Changes in registration, regulations concerning, 17.
Chemistry, description of courses, 9; major, A.B. degree in liberal arts, 26, 111.
City schools affiliated, 10, 143.
Classified course required, 18.
Clerical and fiscal service, public service curriculum, 60.
College, historical sketch, 9; location and environment, 3; officers of, inside of cover.
Commencement, date of, 8; fees, 14.
Commerce courses, description of, 125. See also education courses.
Major, A.B. degree in liberal arts, 26, 122.
Special secondary credential, see business education.
Two-year curriculum, 66–68.
Constitutional course required for A.B. degree, in liberal arts, 26; in teacher training, 26; in teacher training for, 18.
Contents, table of, 3.
Correspondence and extension courses, regulations concerning, 24.
Cost of attendance, estimate of, 13.
Course fees, 14.
Courses of instruction
Description of courses, 69–129:
- Aesthetics, 70; anthropology, 121.
- See also: arts courses, drama courses, music, art courses, music.
- Astronomy, 110; bacteriology, 31; botany, 91; chemistry, 111; commerce, 122.
- Economics, 122; education, 74; engineering, 81; foreign languages, 88; French, 85; general language, 86; geography, 123; geology, 114; German, 87; health education, 89; history, 90; human language, 88; library science, 21; life science, 91; mathematics, 96; merchandising, 95; music, 95; see also: arts courses; philosophy, 183; physical education, men, 164; women, 170; physical sciences, 116; political science, 123; psychology, 118; secretarial training, 119; social science, 116; Spanish, 87; speech arts, 156; zoology, 150.
- Explanation of terminology, 59.
- Honors courses, 21.
- Honors and special offerings, 10.
- Year courses open to registration in the year, 70.
- Craft courses, see art courses.

Credentials, 31.
- Administration and supervision, 31.
- Combinations of, 32.
- Deficiencies affecting graduation and transcripts, 19.
- Degree, B.E., see Bachelor of Engineering degree.
- Degree with honors, 22.
- Dentistry, Predental curriculum, 55.

Department of Education, State officers of, see also fundamentals.
- Deposits and fees, list of, 13, 14.
- Diplomats of graduation, 21.
- Directory of faculty, assistants, and office staffs, 140–145.
- Disqualification, reinstatement of students disqualified, 20.
- Dormitory, use of, 19.
- Drama courses, see speech arts courses.
- Drawing machine, see engineering courses.
- Economics description of courses, 12.
- Major, A.B. degree in liberal arts, 26, 122.
- Education, description of courses, 74; maximum units allowed for old work, 28; minor in, 28; practical, 74; required for teaching credentials, 30; State Board of, members of, inside of cover; State Department of, officers of, inside of cover.
- Electives, limited, for A.B. degree in liberal arts, 27; in teacher training, 32.
- Elementary school, see credentials.
- Elementary and junior high school, see combination curriculum.
- Elementary school, practice teaching in, 10.
- Eligibility for practice teaching, 21.
- Embryology, see zoology courses.
- Employment, part-time, 11; services of placement office, 11.
- Engineering, description of courses, requirements for, 26; required for A.B. degree, 23.
- Foreign service, public service curriculum, 60, 87.
- Forestry, preagricultural curriculum, 69.
- French, description of courses, 85.
- Major, A.B. degree in liberal arts, see French or Spanish.
- General requirements for all A.B. degree curricula, 23.
- General, without secondary credentials, 62.
- General business curriculum, see credentials.
- General business field, 32.
- General education, see also natural science.
- General requirements for all A.B. degree curricula, 23.
- General science, see credentials.
- Liberal arts degree, 26, 81.
- Required for A.B. degree, 28.
- Subjects of, examination, exceptions from requirement, 18; fee for, 14; required at registration, 16.
- Teaching major, 29; minor, 29.
- Elementary course, see zoology courses.
- Entrance requirements, see admission.
- Equipment and buildings, description of, 10.
- Evaluation for advanced standing, fee for, 14, 16.
- Examination dates, 7–8.
- Fees defiition of, 17.
- Final, regulations concerning, 22.
- Required at registration, 16; aptitude test, 16.
- See also: aptitude test, medical, 11, 16, 104; subject A, 16.
- Grade point average, computation of, 19.
- Grade points, definition of, 19.
- Grades, deficiencies affecting graduation and transcripts, 19; grading system used, 19; incomplete, 19.
INDEX—Continued

Speech arts, courses, description of, 138; two-year completion curriculum, 66
Speech test, see examinations
Sports, women, 108
Stage design courses, see art courses
State Board of Education, members of, inside of cover
State Department of Education, officers of, inside of cover
Statistics courses, see education courses and economics courses
Stenography, see secretarial training courses. See also education courses
Student body fee, 14
Student life, comment on, 11
Study-list limits, 19
Subject A examination, see English test
Summer sessions, calendars, 1940, 7; 1941, 8.
Supervision and administration credentials, 31
Surveying courses, description of, 79
Table of contents, 5, 6
Teacher training, facilities for, 19
Teacher training, see Bachelor of Arts degree
Teaching credentials, see credentials
Testing, mental, see psychology courses
Tests, see examinations
Transcript of records, 21; fee for, 14, 21; scholarship deficiencies affecting transcript, 19
Treble Clef, 102
Two-year curricula. See Curricula
Two-year students, definition of, 15, 19; curricular limitations, 64
Typewriting courses, see secretarial training courses
Units of work and study-list limits, 15, 29
Upper division
Courses, regulation of enrollment for sophomores, 68
Majors for A.B. degree in liberal arts, 26
Requirements for A.B. degree, in liberal arts, 26; in teacher training, 28
Unit requirements for A.B. degree, in liberal arts, 26; in teacher training, 29
Vacations, calendar of, 7, 8
Visual education course, description of, 78
Vocational and applied subjects, see limited electives
Withdrawal regulations, from class, 20; from college, 20
Year course in language, mathematics, or philosophy required for A.B. degree, 23, 24
Year courses open to registration in the middle of the year, 70
Zoology, courses, description of, 93; major, A.B. degree in liberal arts, 26, 29