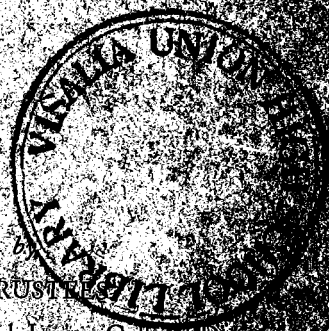


VISALIA JUNIOR COLLEGE  
LIBRARY

# VISALIA JUNIOR COLLEGE



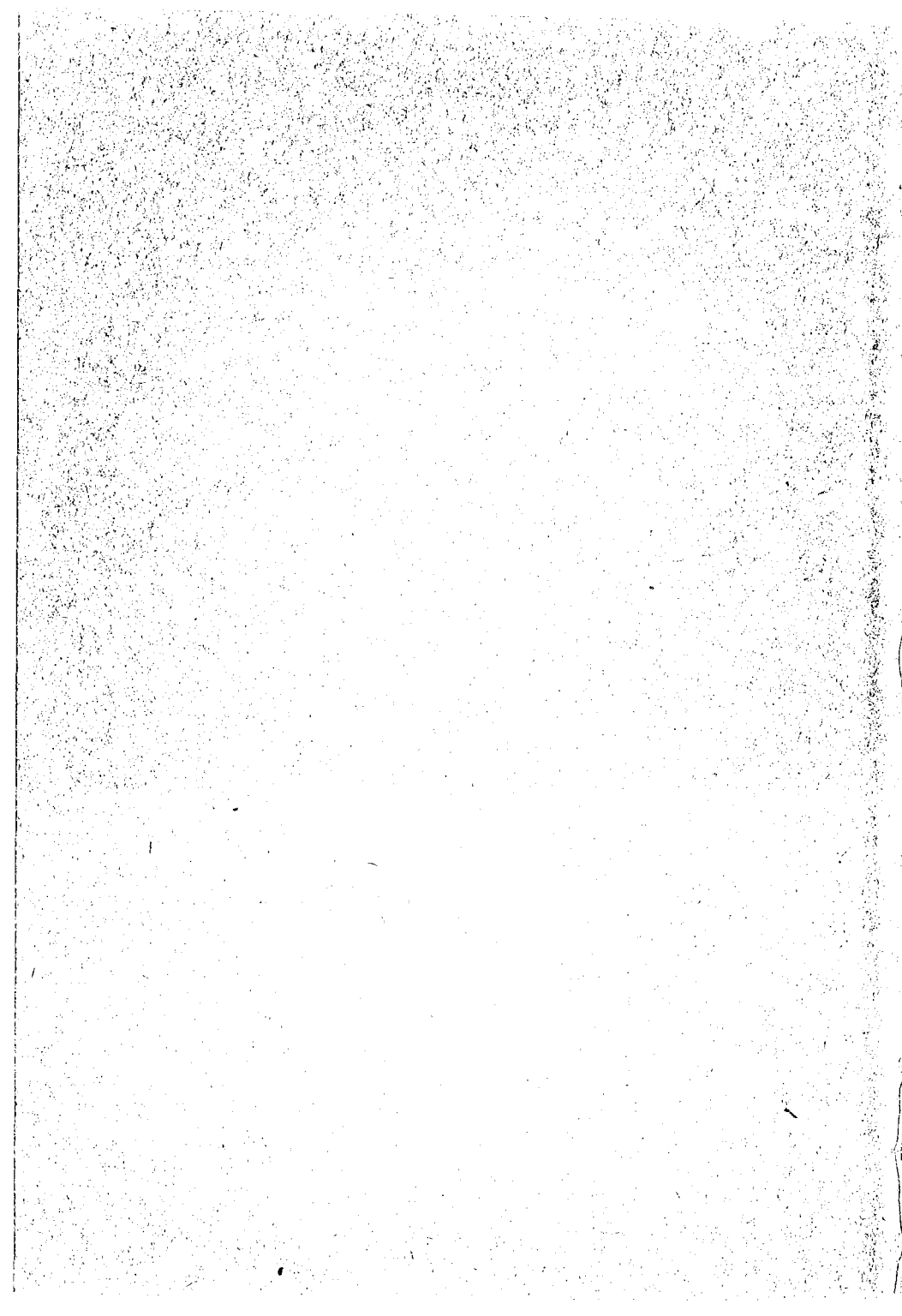
*Junior College Bulletin*  
1939 - 1940



*Published by*  
BOARD OF TRUSTEES

Visalia Union High School and Junior College District  
VISALIA, CALIFORNIA

April, 1939



# VISALIA JUNIOR COLLEGE

GE




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Visalia Union High School and Junior College  District

VISALIA, CALIFORNIA

April, 1939

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# CALENDAR

1939 - 1940

## FIRST SEMESTER

September 11, 1939 — January 26, 1940

September 7, 8, 11, 12 .....	Registration
September 12 .....	Last day to register without penalty
September 13 .....	Class Instruction Begins
September 14, Placement Test in Gregg Shorthand and Typing	
September 15 .....	Placement Test in English
October 20 .....	Last day to drop subject without penalty
November 30-December 4 .....	Thanksgiving Holiday
December 22-January 2 .....	Christmas Holiday
January 22, 23, 24, 25 .....	Semester Examinations
January 26 .....	End of First Semester

## SECOND SEMESTER

January 29, 1940 — May 29, 1940

January 24, 25, 26 .....	Registration
January 29 .....	Last day to register without penalty
January 29 .....	Class Instruction Begins
February 1 .....	Placement Test in Gregg Shorthand and Typing
February 2 .....	Placement Test in English
March 8 .....	Last day to drop subject without penalty
March 15-25 .....	Easter Holiday
May 11 .....	Placement Test in English
May 22, 23, 24, 27 .....	Semester Examinations
May 29 .....	Commencement
May 30 .....	Memorial Day Holiday
May 31 .....	End of Second Semester

## BOARD OF TRUSTEES

W. R. Bailey, President E. E. Baker, Clerk  
 W. A. West Loring Whitaker Fletcher Ayres

## ADMINISTRATION

DeWitt Montgomery, M. A., Superintendent  
 L. J. Williams, M. S., Principal  
 of Visalia Union High School and Junior College  
 Ethel Wallace Bryant, A. B., Dean of Women

## FACULTY

E. E. Bauermeister, M. S. ....	Physical Education
Alfred Boradori, A. B. ....	Mechanics
Rosalie Borgman, M. A. ....	German, Spanish
Dorothy M. Bradner .....	Commerce
Ethel Wallace Bryant, A. B. ....	English
Izetta Burnard, B. S. ....	Nutrition and Dietetics
George S. Burris, B. M. ....	Music
Alice G. Calleri, M. A. ....	Science
Vera Charpentier, M. A. ....	French
Inez Crow .....	Commerce
Lyman B. Curtis, M. A. ....	Commerce
R. B. Curtiss, A. B. ....	Mechanical Drawing
Claribel DuPlan, B. M. ....	Music
Joseph P. Greenwood, B. S. ....	Science
Edward E. Hayden .....	Mechanics
Ray H. Houston, B. S. ....	Agriculture
Morris Jerlow, B. S. ....	Science
Thomas J. Kelly, M. A. ....	Commerce
Natalie Lapike, A. B. ....	Library
Jennie Larkin, B. L. ....	Mathematics
Otto Lee Lehmann, M. A. ....	Social Science
John R. Locke, Jr., A. B. ....	Fencing
Mary Janet Martin, A. B. ....	Physical Education
Stanley Matheson, M. A. ....	English

Karl W. Mitchell, A. B. ....	Commerce
Oakley Morris, A. B. ....	Physical Education
Myron Moyer .....	Mechanics
Victor P. Osterli, B. S. ....	Agriculture
Lyle B. Pember .....	Mechanics
Howard Raphael, A. B. ....	Mathematics
C. W. Read, M. S. ....	Science
William G. Reidy, M. A. ....	Social Science
Murco Ringnald, M. A. ....	English
Alice G. Rouleau, M. A. ....	Art
W. J. Sanders, M. A. ....	English and Philosophy
Antonia R. Steele, M. A. ....	Physical Education
I. D. Steele, A. B. ....	Social Science
Margaret E. Thomas, B. E. ....	Physical Education
Arthur Timothy, M. A. ....	Public Speaking
Gertrude Webb, B. S. ....	Homemaking
Paul W. Wilhelmsen, A. B. ....	Physical Education
L. J. Williams, M. S. ....	Orientation



## General Information

The Visalia Junior College was organized by resolution of the Board of Trustees of the Visalia Union High School District in November, 1925, and regular class instruction began September 20, 1926. This action reflected a popular conviction that higher education should be made a part of the public school system of the community, inasmuch as a trained mind has become essential to success in the complex situations of modern life.

As the junior college has grown from year to year in enrollment, new courses have been added and new buildings and equipment provided. It was the thought of the trustees at the time of organization that a junior college should not limit its influence to a single community, but should, as rapidly as possible, extend its service to all students who may be able to attend. In pursuance of this policy, transportation facilities have been extended to neighboring high schools in Tulare and Kings counties with the purpose of offering to the graduates of all high schools within the region that can be served daily the opportunity of higher education.

In all its many activities the junior college seeks to attain four principal objectives: (1) to develop responsible citizenship, (2) to train for more abundant and capable living, (3) to prepare students in certain fields to enter gainful employment and (4) to fit students for more advanced study in colleges and universities.

### CURRICULA OFFERED

Junior college students may be classified into two large groups: those students who are planning to continue their education in four-year colleges or universities and those students who expect to enter some occupation either before or after graduation from the junior college. Hence, the curricula are designed to meet the needs of the students in both groups.

To aid the student in selecting a curriculum best suited to his major interests, his needs, and his capacities, the junior college during registration week provides guidance through the offices of the Principal and the Dean of Women.

A Junior Certificate is an official statement issued by certain four-year colleges and universities to a student who has completed the regular freshman and sophomore courses of such college or university. Students eligible to enter such an institution as freshmen should be able to complete a junior college course in two years, which covers lower division requirements and gives them junior standing. In most instances such students may transfer to a university at the end of any semester provided their scholarship average for all work undertaken has been of "C" grade or higher.

Terminal courses, numbered from 50 to 100 are offered for students who plan to complete only a two-year program of work. Transfer credit is not guaranteed for such courses. The purpose of these is twofold: (1) cultural courses designed for students who wish to complete a general education in the junior college and to assume immediately their place as active citizens of the community, (2) semi-professional or vocational courses designed for students who wish to enter the business and industrial world after finishing their junior college studies.

## **STUDENT ORGANIZATIONS**

The Associated Students of Visalia Junior College is the official student organization. On payment of the registration fee of five dollars each semester, the student receives a student body card which entitles him to participate in the activities sponsored by the organization. The Associated Students sponsor all activities which concern the student body as a whole, including athletics, forensics, publications, social affairs, and assembly programs. Students not only may participate in the activities of the college but may attend all home league games and contests and all social affairs given by the Associated Students. All students receive the college newspaper, *The Campus*, throughout the year.

The business of the Associated Students is carried on by a cabinet, the members of which are elected by the students.

A number of organizations offer opportunity to the students to associate with groups encouraging special interests and organized extra-curricular activity. These are: the Associated

Women Students, Associated Men Students, Women's Athletic Association, Students' Christian Association, Lettermen's Club, Majority Club, College Commercial Club, Tartarettes, Tartar Knights, International Relations Club, Beta Phi Gamma (honorary journalistic fraternity), Phi Rho Pi (honorary forensic fraternity), and Alpha Gamma Sigma (scholarship society).

## STUDENT ACTIVITIES

Student activities of the Visalia Junior College include student government, organized athletics, forensics, dramatics, publications, music, social affairs, and club meetings. Every student is urged to affiliate himself with at least one student activity.

*Athletics:* Visalia Junior College is a member of the Central California Junior College Association and has representatives and teams for each athletic activity sponsored by that association. In addition, it sponsors some minor sports.

*Forensics:* Membership in the Central California Junior College Association determines the basic schedule for activities in debate, oratory, and extemporaneous speaking.

*Dramatics:* The annual production of one full-length play or group of one-act plays constitutes the student-body activity in dramatics. Other dramatic activities are sponsored by the dramatic class.

*Publications:* The junior college maintains a news bureau and sponsors a weekly newspaper, The Campus, and an annual, The Tartar.

*Social Affairs:* There are a number of annual student-body social affairs under the direction of the social committee. These consist of dances, parties, and picnics.

*Music:* Men's Glee Club, Mixed Chorus, Band, and Orchestra furnish music for assemblies and the weekly radio broadcast.

## EXPENSES

No tuition is charged by Visalia Junior College. The student, however, is required to pay a registration fee of five dollars each semester. No part of this is returnable after two weeks

of attendance. There are no laboratory, gymnasium, library, or shop fees. A deposit of one dollar is required for a locker.

Text books and stationery will amount to fifteen to twenty dollars a year since the college does not provide them.

### **TRANSPORTATION**

Bus lines transport students, free of charge, from practically all outlying sections of the Visalia Union High School District, and from Dinuba, Orosi, Exeter, Woodlake, Tulare, Hanford, Lemoore, Corcoran, Lemon Cove, Lindsay, and Ash Mountain.

### **CAFETERIA**

A cafeteria is maintained on the campus for the use of the students where lunches may be obtained at a minimum cost.

### **LIVING ACCOMMODATIONS**

A list of available living quarters for students who are away from home is on file in the office of the Dean of Women. Students are required to have such living accommodations approved by the Dean before they make final arrangements. Living in apartments is not encouraged by the college.

### **EMPLOYMENT**

An attempt is made to provide students who need it with part-time employment. Women or men students wishing to work for room and board in private families should communicate with the Dean of Women.

The college administration cooperates with the National Youth Administration in providing part-time employment for worthy students.

### **LIBRARY**

The main library serves jointly the high school and junior college. The number of bound volumes is approximately 8000. Eighty newspapers and periodicals are regularly received.

Fines for books kept overtime are five cents a day. All books must be returned and all fines paid before semester term records will be officially recognized.

In addition to the main library a reference room and study hall is provided for the junior college.

The cooperation of the Tulare County Library and the Visalia City Library with the junior college and its faculty increases greatly the resources available to students.

## **LOANS AND SCHOLARSHIPS**

Small temporary loans are available for junior college students. Applications should be made directly to the Dean of Women.

A faculty committee encourages students of unusual academic ability who desire to apply for scholarships to four-year colleges and universities and assists them in making such applications.

## **GENERAL REGULATIONS**

### **Admission:**

Graduates of any high school may be admitted to Visalia Junior College, and such other persons over eighteen years of age as may be recommended for admission by the Principal.

Applicants for admission are requested to arrange in advance to have transcripts of their high school records sent directly to the junior college for evaluation.

Students from institutions of collegiate rank may be admitted with advanced standing upon the presentation of transcripts from such institutions subject to approval of the administration of Visalia Junior College.

### **Matriculation Deficiencies:**

In the case of an applicant not eligible for clear admission to a standard college or university at the time of his entrance to junior college, deficiencies in both subject and grade requirements for clear admission may be removed as follows:

(1) By passing appropriate examinations of the College Entrance Examination Board (given throughout the country during the last week of June) or

(2) By completing in the the junior college with a grade of "A," "B," "C" a college course in the group or groups of subjects in which the deficiencies lie.

No college credit will be granted for such courses when they are used to remove subject deficiencies; but full college credit will be granted for such courses when they are used to remove grade deficiencies.

The rate of exchange is one high school unit for each three junior college units. Junior college subjects that may be used to remove deficiencies are:

Group (a) Economics, history, geography, political science;

Group (b) Any English course of three units;

Group (c) Any standard college mathematics;

Group (d) Any laboratory science which has at least two units of laboratory work exclusive of the lectures;

Group (e) Any foreign language;

Group (f) Any standard college mathematics, any foreign language, or chemistry or physics.

### **Registration:**

Four days at the beginning of each semester are set aside for registration. Students are urged to register on these stated days, for late registration retards the progress not only of the student himself but of every class in which he may be admitted. A fee of \$1.00 is charged for late registration.

Only under extraordinary circumstances will registration be permitted after the end of the second week of class work.

### **Amount of Work:**

The normal requirement for a junior college schedule comprises sixteen units of work including physical education. No student will be granted credit in excess of eighteen units a semester, except in the case of a student of proved ability who needs nineteen units to complete required work for graduation.

## **ENGLISH PLACEMENT TEST**

A Placement Test in English is given in January, May, and September of each year to all entering students. The results of the test determine the placement of the students in the various English courses.

## PHYSICAL EDUCATION AND HEALTH REQUIREMENTS

All regular students and all special students carrying over eight units of work are required by an act of the state legislature, to enroll in the regularly prescribed courses in physical education and health for four semesters.

Unless this requirement is satisfactorily met no credit earned in other courses may be granted.

## ORIENTATION REQUIREMENTS

All such students are likewise required to enroll in the course in orientation each semester for four semesters.

## CONDUCT

Students are expected to set and observe among themselves a proper standard of conduct. Failure to show such respect for order, morality, and personal honor as is expected of good citizens may be sufficient cause for removal from the junior college.

## ATTENDANCE

Regularity of attendance is fundamental to satisfactory progress in college. All absences from class or laboratory will be recorded by the instructor as "unexcused" unless the student concerned presents to the instructor a re-instatement permit which he has received from the Principal or Dean.

The financial support of the junior college is based upon the average daily attendance of the students. Every student, therefore, should be concerned with regularity of attendance, not only because he can work more effectively, but also because his attendance assures the financial support which enables the institution to provide better facilities for all students.

## LEAVE OF ABSENCE

Students finding it necessary to be absent for one week or more are instructed to file with the Principal or the Dean of Women a Leave of Absence request stating the reasons for the absence. Favorable action upon the request will insure an opportunity to make up the classes missed without loss of credit.

No leave of absence will, however, relieve the student from the necessity of completing all the work of each course to the satisfaction of the instructor.

Absences to represent the school will be officially excused if students present to their instructors, in advance, requests for such absence filled out on the proper forms and signed by the Principal or the Dean.

### **WITHDRAWALS FROM COURSE OR COLLEGE**

Students desiring to withdraw from a course or from college should complete and file the proper request with the principal or the Dean. Requests filed before the end of the sixth week of the semester will enable the student to withdraw without prejudice to his standing. During the second six weeks of any semester a student may be permitted to drop a course without prejudice, only under such circumstances as are considered by the Administration to be beyond the student's control. Otherwise, the dropping of the course during this interval shall be regarded as a failure of the course.

In general, during the final six weeks of any semester, the dropping of a course shall result in a record of failure.

### **UNITS AND GRADE POINTS**

All junior college work is measured in terms of both quantity and quality. The measure of quantity is the unit and the measure of quality is the grade point.

For purposes of graduation or transfer to other collegiate institutions, it is necessary to obtain a certain number of grade points. In general the requirements are one grade point for every unit of college work undertaken.

Grade points will be awarded as follows: Grade A, three points per unit; B, two; C, one; D, none; F, minus one. Students are not permitted to raise the passing grade of D, C, or B to a higher grade by later work.

### **GRADES**

A, B, C, and D are passing grades, corresponding to excellent, good, average, and barely passed; F, failure. An incomplete (inc.) grade will be given only with the special ap-



proval of the Principal or Dean. This approval will be given only in cases of illness or other circumstances beyond the student's control and will indicate that the student is entitled to all grade points upon satisfactory completion of assignments within the first six weeks of continued attendance.

It is understood that instructors' grades, when handed in, are final and not subject to change by reason of a revision of judgment on the part of the instructor.

## **REQUIREMENTS FOR GRADUATION**

### **INTRODUCTION**

Students preparing for graduation from Visalia Junior College should follow one of the two plans outlined below. The title of Associate of Arts is conferred upon graduates of Visalia Junior College who complete either plan as indicated. Plan One is designed for students who do not intend to continue formal collegiate instruction beyond the junior college, while Plan Two is designed for students who desire to be transferred later with junior standing to a four-year college or university.

### **PLAN ONE**

The title of Associate of Arts is conferred under Plan One on all students who shall have completed satisfactorily ("C" average) a two-year junior college curriculum of 64 semester units including:

1. Two units in physical education.
2. Two units in hygiene.
3. Two units in the Constitution of the United States, including the study of American institutions and ideals.
4. Two units in orientation.
5. Any six units of English or public speaking or any combination. Students majoring in Commerce are required to complete four courses in English (9 to 12 units).
6. A major consisting of at least 20 units in a specified field of study.

The requirement of "twenty semester units in a specified field of study" may be met by the completion of twenty units of work in any of the following fields:

- GROUP I. Liberal Arts
- GROUP II. Social Science
- GROUP III. Science and Mathematics
- GROUP IV. Art and Music
- GROUP V. Pre-nursing course
- GROUP VI. Mechanics
- GROUP VII. Commerce

#### PLAN TWO

The title of Associate of Arts is conferred under Plan Two on all students who expect to continue, or who may continue in upper division work in a standard four-year college or university, who shall have completed satisfactorily ("C" average) a two-year junior college curriculum of 64 semester units, including:

1. Two units in physical education.
2. Two units in hygiene.
3. Two units in the Constitution of the United States, including a study of American institutions and ideals.
4. Two units in orientation.
5. Six units in English.
6. The completion of the lower division requirements of the University of California or of any other approved college or university where upper division work will be continued.

Courses completed in high school may be accepted as partial or complete fulfillment of certain departmental requirements as to subject matter, provided that such work shall not reduce the amount of work (64 units) required for the diploma, and shall be limited to those subjects accepted by the particular college.

In order to assist the student to plan his course, the lower division requirements for certain colleges have been set down. It is highly desirable that the student decide on his major subject as early as possible, so that the required lower division preparation for the major can be met. Such requirements in each department of the college or university are set forth in the college catalogue which may be easily obtained by writing to the Registrar of the institution in which the student is interested.

**UNIVERSITY OF CALIFORNIA**  
**Berkeley and Los Angeles**  
**REQUIREMENTS FOR A JUNIOR CERTIFICATE**

Three principal kinds of requirements must be met in order for a student to attain full junior standing at the University of California or other institution maintaining equivalent standards to which he may expect to transfer. These are:

1. The removal of all matriculation (entrance) deficiencies.

2. The completion of the specific requirements for the Junior Certificate or junior standing in the proposed senior college.

3. The completion of the lower division prerequisites for the upper division majors and minors. These vary according to the majors and minors selected and also according to the institution in which the student expects to enroll. All students expecting to transfer to some other college or university should consult the catalogue of such institution regarding specific requirements for upper division standing. It is highly desirable that every student decide upon a major as early as possible after entering the junior college. The junior standing requirements of some of California's colleges and universities are here presented.

**UNIVERSITY OF CALIFORNIA AT BERKELEY**  
**AND AT LOS ANGELES**

Junior Certificate in Letters and Science

The Junior Certificate will be granted on the completion of not less than 60 units of college work with a "C" average, and the fulfillment of the following general and specific requirements:

- A. General University Requirements
  - Subject A or its equivalent
  - Physical Education and Hygiene or Military Science, four units
- B. Foreign Language
  - At least fifteen units in not more than two languages.

Each year of high school work in a foreign language will be counted in satisfaction of three units of this requirement.

C. Mathematics

Elementary algebra and plane geometry. If these subjects have not been completed in high school, or if they were completed with a grade of "D", they must be taken in the junior college without college credit.

D. Natural Science

At least twelve units chosen from the following list: High School Physics\*, 3 units (1 high school credit) High School Chemistry\*, 3 units (1 high school credit)

Bacteriology 1\*

Botany 1a\*-1b\*

Chemistry 1a\*-1b\*

Geology 1a, 1b, 2

Physics 1a-1b\*

Physiology 1b\*

Zoology 1a\*, 1b\*

The student must include among the courses taken in satisfaction of the requirement in natural science at least one course in laboratory science. Such courses are marked with an asterisk. Courses with but one unit of laboratory science are not accepted in fulfillment of this requirement.

E. Additional. A year-course (of at least six units) in each of three of the following groups:

1. English, Public Speaking

2. Foreign Language in addition to the requirement B quoted above. This may be satisfied in whole or in part in the high school, provided the language be Latin. Two years of high school Latin are accepted as equivalent to a year course.

3. Mathematics

Any six units from the following courses:

Mathematics c, 8, 3a-3b

4. Social Sciences: History 4a-4b, 8a-8b, Economics 1a-1b, Political Science 1a-1b, Psychology 1a-1b, Geography 1b

5. Philosophy 6a-6b, 10a-10b.

JUNIOR CERTIFICATE TEACHERS' COLLEGE  
OF U. C. L. A.

These requirements are the same as for the Junior Certificate in Letters and Science except that 6 units of English 1a-1b or Public Speaking 1a-1b and 6 units of Psychology 1a-1b must be chosen as two of the year courses prescribed in the group E requirement, and that the other year-course to satisfy the Group E requirement may be chosen from the following list: Economics 1a-1b, Geography 1-2, History 4a-4b, or 8a-8b, Political Science 1a-1b, Philosophy 5a-5b, or Mathematics 1c, 8, 3a-3b.

This student must also meet the specific lower division requirements for his upper division major. Some examples follow:

General Elementary Education and Kindergarten

Primary Education

Art 22, 30; Biology 1, 12; Geography 1a-1b; Mathematics 19; Music 60a-60b; Psychology 1a-1b.

Junior High School Education

Lower division prerequisites for two upper division minors in subjects taught in junior or senior high schools.

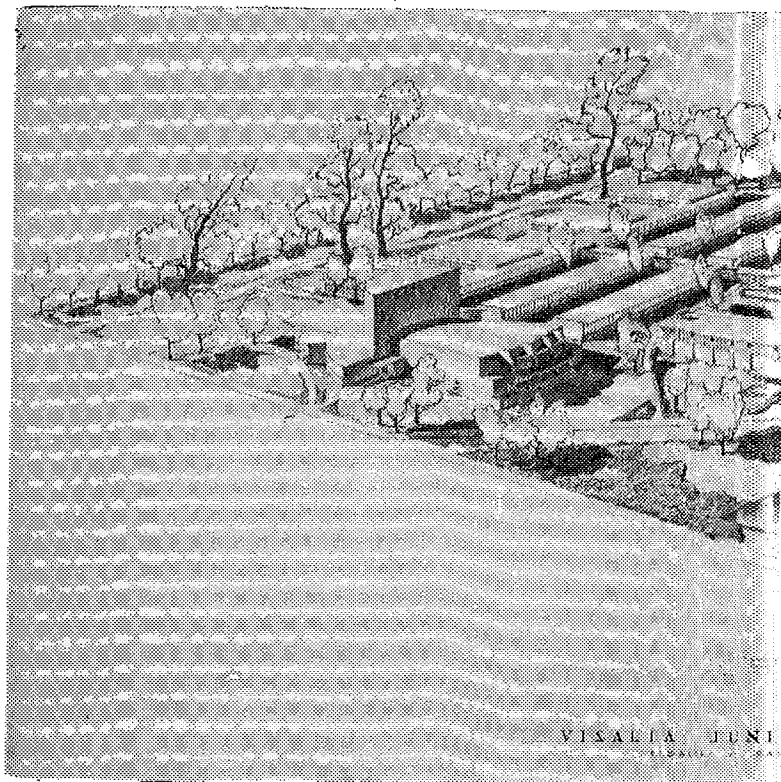
Special Credentials

Art: Art 1, 2a-2b, 4a-4b, 8a-8b, 9, 12, 32a. Commerce: Economics 1a-1b and 14a-14b; Political Science; Geography; History; Commerce 16, 17, 18a-18b. Home Economics: Home Economics 1a-1b, 2, 11a-11b, 43a; Art 2a; Chemistry 2a-2b; Psychology 1; Economics 1a. Physical Education: Chemistry 1a or Zoology 1a; Physiology 1; Biology 1; Anatomy.

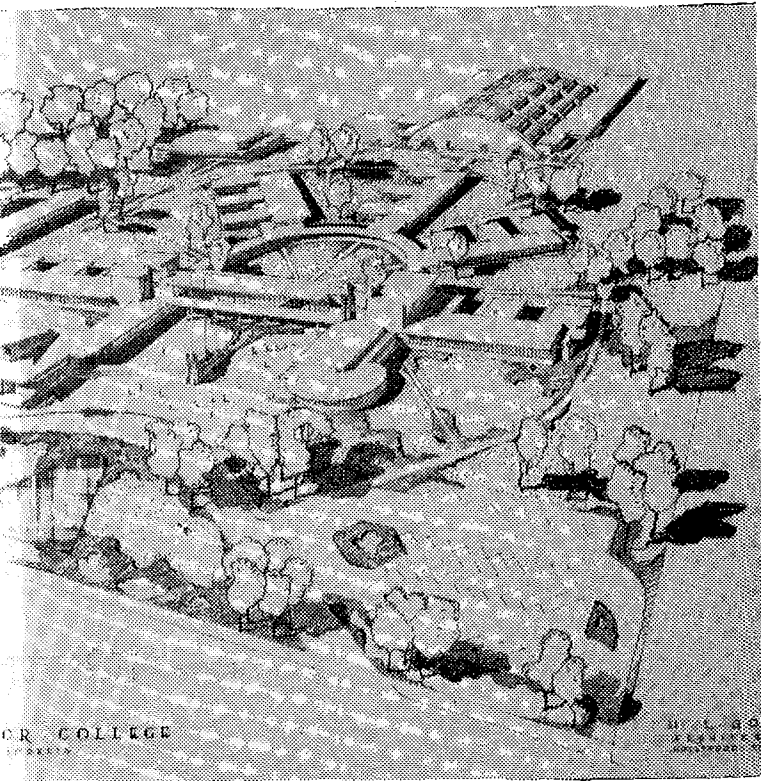
**STANFORD UNIVERSITY**  
**LOWER DIVISION REQUIREMENTS**

A change was recently made in the admission requirements for those desiring to enter the upper division at Stanford University. The Registrar states:

"The action taken was to the effect that a student who has completed a two-year program in a recognized institution, and has done so with satisfactory quality, will not be held for



The master plan of the Visalia Junior College here shown of time to keep pace with the growth of the College. The class rooms, laboratories, shops, gymnasium, library stack r to meet the immediate needs of the Junior College and to located site has been purchased and it is expected that cons of these first units, the Junior College will maintain an ent.



provides for the expansion of the plant over a long period of years. The units which will be constructed immediately will include lecture hall, student rooms, and administration offices, sufficient to provide for a considerable increase in attendance. A well-planned construction will begin in the early fall. With the completion of this expansion, a completely separate organization.

the Stanford lower division requirements upon acceptance here. This, as you see, removes specific restrictions that were implied by our old relationships in which candidates for admission who had not fully met our lower division requirements or those of the California junior certificate were held for the balance of the Stanford lower division requirements.

"The spirit of this move is to recognize the fact that in the junior colleges there are guidance facilities whereby the programs of students may be constructed on an intelligent forward-looking basis. Our hope will be that the students anticipating coming to Stanford will build substantial broad backgrounds for upper division and graduate work which will be comprehensive in nature and will include the prerequisites of the particular fields in which they expect to specialize. The emphasis continues to be on quality of work rather than specific details of pattern."

All students are advised to consult both their counselors and the Stanford catalogue so as to meet the necessary prerequisites for Upper Division courses of a professional character.

Students proposing to transfer to Stanford with less than Upper Division standing must rigidly follow the Lower Division requirements of that institution.

## **UNIVERSITY OF SOUTHERN CALIFORNIA LOWER DIVISION REQUIREMENTS**

The lower division curriculum as offered in the College of Letters, Arts and Sciences at the University of Southern California includes the following:

- A. English 1a-1b, 6 units.
- B. Foreign Language.

Fifteen units in not more than two languages. Each year of a foreign language in high school will be accepted in fulfillment of three units of this requirement.

- C. Natural Sciences.

A minimum of eleven units including at least one laboratory course. Chemistry and physics in the third or fourth year of high school will be accepted in the



fulfillment of three units of this requirement.

D. Social Science.

Six units of history, economics, political science or sociology.

E. Philosophy or psychology, six units.

F. Orientation, 1 unit.

G. Physical Education and Health, 4 units.

H. Mathematics.

High school elementary algebra and plane geometry.

I. Electives to bring total to 64 units.

"The junior college student planning to enter the University of Southern California is advised to include among his electives the lower division courses recommended by the department of his proposed major. The requirements of major departments may be found under department headings in the Bulletin of the College of Letters, Arts, and Sciences. A student planning to enter a professional school at the University of Southern California should be guided by the requirements announced in the bulletin of the school of his choice."

### CALIFORNIA STATE COLLEGE LOWER DIVISION REQUIREMENTS

(Fresno, San Jose, Santa Barbara, San Diego, San Francisco, etc.)

There are a few slight variations in the lower division requirements in various state colleges. Students should consult the catalogues of the particular college they intend to enter. Substantially, the lower division requirements in general elementary, kindergarten-primary, and junior high education are as follows:

A. General Requirements.

Subject A or its equivalent

Physical Education and Hygiene, 4 units.

United States Constitution, 2 units.

B. Foreign Language, 10 units.

Two years of one foreign language taken in high school will satisfy this requirement if completed with a recommended grade.

- C. Mathematics.  
Elementary algebra and plane geometry. If not completed in the high school, these courses must be taken in junior college without college credit.
- D. English, 6-12 units.  
English 1a-1b, Public Speaking 21, and three units from other fields of English or Speech Arts. If English is used as a minor, English 5a-5b is required.
- E. Natural Science, 14 college units.  
A laboratory science must be included. Courses recommended in fulfillment of this requirement are Zoology 1a-1b, Biology 1a-1b, Physiology 1, or any combination of these; Geology 1a-1b, high school Chemistry or Physics.
- F. Social Science, 14 units.  
History 4a-4b, 8a-8b, 6-12 units; Political Science 1a-1b; Geography 1b, 3 units; Psychology 1a-1b.
- G. Music (including appreciation) and Art, 2 to 4 units each.
- H. Orientation, 1 unit.
- I. Electives in Minors, 8-14 units.  
For general elementary and kindergarten-primary grades, it is recommended that one minor be in a general subject and one in a special subject.
- J. Electives to bring total to 64 units.

Note: For the special secondary teaching credential in art, commerce, home economics, mechanic arts, music, and physical education, students should consult the specific curricula requirements of the University of California at Los Angeles or the state college to which the student intends to transfer.

## **TRAINING SCHOOLS FOR NURSES REQUIREMENTS**

Students may obtain nursing education either in (a) hospitals operated by universities (University of California-Stanford) or (b) hospital training schools. For admission to the former the student must obtain regular junior standing in the

university to which transfer is desired and also complete certain pre-nursing subjects. Such a course leads to a B. S. degree in addition to a certificate in nursing. For admission to hospital training schools, the student must complete thirty units of a college pre-nursing course with a "C" average. This requirement of the Bureau of Registration of Nurses went into effect in September, 1938.

According to a ruling by the California State Board of Public Health the course in schools of nursing is thirty-six months. A student who has met the following college course requirements of the Bureau of Registration of Nurses may be exempt from a portion of this time: Anatomy, Physiology, Chemistry, Bacteriology, Hygiene, Nutrition and Dietetics, Psychology, and English.

For details of hospital requirements, students are urged to visit schools of nursing and to make their choice before enrolling in junior college courses. Many schools have specific subject requirements which must be met.

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## Description of Courses

### AGRICULTURE

#### AGRICULTURE 50a-50b—ANIMAL HUSBANDRY (3-3)

A vocational course including the study of poultry, swine, sheep, horse, and beef production.

#### AGRICULTURE 60a-60b — HORTICULTURE AND CROPS (3-3)

A vocational course including the study of soils, irrigation, disease and insect pest control, cultural practices with various field crops, truck crops, vines, and tree fruits.

### ART

#### ART 6a—ART STRUCTURE (2)

Principles and elements of art and their application. Study of various media and their uses.

#### ART 6b—COLOR AND DESIGN (2)

Systems of color and their application. Decorative arrangement in line, form, and color.

ART 7a—FREEHAND DRAWING (1 or 2)

Freehand and perspective drawing.

ART 7b—FIGURE DRAWING (2)

Drawing from models—human, animal, etc.

ART 19—ART APPRECIATION (2) Either Semester

A course designed to develop the student's capacity to enjoy his surroundings by making him conscious of the beauty he sees daily in his home, his school, his community, and in the works of master craftsmen and artists.

ART 20—COSTUME DESIGN (2-2)

An introductory course given jointly by the Art and Homemaking departments. The Art department takes up a study of art principles applied to modern dress with particular emphasis on individual problems. The Homemaking department offers pattern drafting and methods of translating dress designs into actual garments.

ART 53a-53b—COMPOSITION (2-2)

Composition in various media. Emphasis on costume illustration, stage, poster, story illustration, etc. to suit each group.

ART 56a-56b—CRAFTS (2-2)

Leather, paper, dyeing, plastics, silk screen printing, etc.

## COMMERCE

COMMERCE 50a-50b — ELEMENTARY SHORTHAND (5-5)

A beginning course in the theory of Gregg Shorthand. Typewriting must be taken concurrently unless the student makes a satisfactory score in the placement test in Intermediate Typing.

COMMERCE 51a-51b—INTERMEDIATE SHORTHAND (5-5)

Continuation of 50a-50b. Definite speed and accuracy in reading and transcribing emphasized—advanced dictation.

Prerequisite: Shorthand 50a-50b.

COMMERCE 53a-53b—ELEMENTARY TYPING (2-2)

An elementary course covering the fundamentals of typing. Stress is placed upon correct positions, accuracy, and technique. Simple business forms, business letters, and social forms are included in the work. A minimum of speed and accuracy required for credit.

COMMERCE 54a-54b—INTERMEDIATE TYPING (2-2)

Open to all students who have had one year of typing and who meet the minimum speed and accuracy requirement. Intensive practice in touch typewriting, frequent drills to develop correct technique, business letters, legal documents, speed tests. A minimum of speed and accuracy required for credit.

COMMERCE 60a-60b—BUSINESS ENGLISH (3-3)

Advanced course in business correspondence, dealing with central principles underlying effective business letters and providing liberal practice in applying these principles. Study of business reports, graphs, adjustments, sales letters, letters of application, and allied fields. Designed to prepare students for secretarial and stenographic positions. Required of all commerce majors.

Prerequisite: Satisfactory score in English Placement Test.

COMMERCE 62a-62b—BUSINESS LAW (3-3)

An analysis of contract relationships, together with the duties and obligations the individual assumes in such relationships.

Sales, agency, public carriers, master and servant, insurance, negotiable instruments, statute of frauds, sale of real estate, etc. are discussed.

COMMERCE 63a-63b — ELEMENTARY ACCOUNTING (3-3)

A course in fundamental principles of bookkeeping and accounting. The work develops a practical introduction to accounting procedure with a minimum amount of theory. The functions of the work sheet, various statements, journals, adjusting and closing entries are analyzed.

COMMERCE 64a-64b—ADVANCED ACCOUNTING (3-3)

A continuation of 63a-63b. Theory of accounting tech-

nique is further developed and the functions of the accountant and auditor are discussed.

Prerequisite: Accounting 63a-63b or an equivalent.

#### COMMERCE 68—OFFICE MACHINES (2)—

Either Semester

A course of instruction in the operation of the following machines with emphasis on touch methods: Marchant, Monroe Calculator, Burroughs Calculator, Burroughs Posting Machine, Remington Rand, Sunstrand, Gelatine Duplicator, Mimeograph, Memeoscope, and Dictaphone.

Students planning to specialize in operation of a calculating machine will be given an opportunity to do intensive work on that machine.

Prerequisite: Typing.

#### COMMERCE 69a-69b—BUSINESS PRINCIPLES (3-3)

A comprehensive study of economic theory applied to modern business practice. The first semester provides a substantial background in such phases of economics as wealth, property, capital, labor, production, banking, and investments in relation to business. The second semester covers a survey of business organization, marketing, insurance, credit relations, and contracts.

#### COMMERCE 70a-70b—OFFICE PROCEDURES (5-5)

Advanced dictation and transcription, vocabulary building. Special drills for improvement of typing. Advanced work in tabulation, billing, and legal forms. Secretarial training including filing, use of duplication machines, and a brief course in machine calculation. The course will acquaint students with real office situations. Practical experience in office work will be required of each student. Students who complete the course satisfactorily will be recommended for office positions.

Prerequisites: Satisfactory score in Placement Test in Gregg Shorthand and Typing.

#### COMMERCE 71—PRINCIPLES OF FILING (1)

Either semester.

Practice in arranging records according to alphabetic, geographic, numeric, and subject methods of filing.

Prerequisite: Elementary typing.

## COMMERCE 75a-75b—BUSINESS ORGANIZATION and MANAGEMENT (3-3)

A comprehensive study of economic theory applied to business. The first semester deals with economic problems of earning a living, wealth, making and sharing an income, interests, rents and profits, protection and savings through life insurance, investing money, money and credit and banking. The second semester deals with marketing and merchandising, forms of business organization, agency for the protection of the consumer, factors that influence the consumer in buying, means of systematic saving, organizing one's own business, business management, types of banks, and problems of capital and labor.

## ENGINEERING

### SURVEYING 1a-1b—ELEMENTARY SURVEYING (3-3)

Fundamental principles and practice in methods of land surveying. Primarily for engineering majors.

Prerequisites: Trigonometry and Mechanical Drawing, but may be taken concurrently with Surveying 1a.

### MATHEMATICS 20—INTRODUCTION TO ENGINEERING MATHEMATICS (2)—Either Semester

Adjustment, operation, and theory of the slide rule; computation rules; graphical methods; introduction to precision of measurements; interpolation and use of the tables; and numerical integration.

### MECHANICAL DRAWING 1—ELEMENTARY MECHANICAL DRAWING (3)

A course covering the fundamentals of mechanical drawing. It is designed to give a thorough knowledge of theory, to train in accuracy and technique, and to lay a solid foundation for advanced work.

### MECHANICAL ENGINEERING 6—MACHINE DRAWING (3)

A required course in engineering. It is designed to give the student a knowledge of the fundamental elements of machine construction, practice in conventional representation of

machine parts, and training in making accurate drawings of machine details.

Prerequisite: Elementary Mechanical Drawing.

#### ARCHITECTURE 1—ARCHITECTURAL DRAWING (3)

A course including the making of a complete set of plans for a house, and intended to give the student a knowledge of the different types of architecture, the ability to list materials and figure costs, and also an understanding of good design.

Prerequisite: Elementary Mechanical Drawing.

#### ARCHITECTURE 2—BUILDING TRADES DRAWING

(3) Either semester

A course in architectural drawing, in which a complete set of plans is made for a one- or two-story building. Special emphasis on types of construction and detail drawings.

#### CIVIL ENGINEERING 2—ENGINEERING DRAWING

(3)

A required course in engineering. Lettering, orthographic projection, preparation of working drawings, technical sketches, and graphical representation of engineering test data.

Prerequisite: Mechanical or geometrical drawing.

#### MECHANICAL ENGINEERING 2—DESCRIPTIVE GEOMETRY (3)

A required course in engineering. A theory and drafting course covering an introduction to engineering graphics, intended to give the student a knowledge of fundamental propositions that will help him to solve engineering problems.

Prerequisite: Civil Engineering 2.

#### CIVIL ENGINEERING 22a-22b—STRUCTURAL DRAFTING AND BUILDING CONSTRUCTION (3-3)

In Structural Drafting, an engineer's design for a steel mill building is used. The framework, including the trusses, is designed and drawn in detail.

Building Construction is a theory course which describes



types of construction, materials used, and the methods for estimating and keeping costs.

Prerequisites: Machine Drawing and Architectural Drawing.

## ENGLISH

### A. Composition and Literature

#### ENGLISH 1A (3)

A course designed to give the student training in correct and effective written expression through analytical reading and the writing of themes. Organization of material, clarity of expression, and sincerity of style are stressed.

Prerequisite: Satisfactory score in English Placement Test or English 51.

#### ENGLISH 1B (3)

A course designed to introduce the student to the various forms of literature. The objective is to increase his appreciation of literary values through a critical study of a group of selected essays, plays, short stories, poems, a biography, and a novel.

Prerequisite: English 1A.

#### ENGLISH 5A-5B—(3-3)

A survey course in English Literature from the Anglo-Saxon Period to the present time, stressing literary backgrounds, literary movements, and literary masterpieces, with illustrative readings from the literary masters, both for inspirational and informative purposes. No single period is emphasized at the expense of the others, although the Georgian Period is but sketchily traced.

Prerequisite: Satisfactory score in English Placement Test or English 51.

#### ENGLISH 6—THE SHORT STORY (2)

This course outlines the development of the short story

from Washington Irving to the present. Contributions to the growth of the short story by the acknowledged masters of the form are considered, the major objective, however, being the reading and enjoyment of types of stories illustrative of the various periods and schools. The modern short story receives a large measure of attention.

#### ENGLISH 7—THE NOVEL IN ENGLISH (2)

This course in the history of the development of the English and the American novel, traces the development of the novel in chronological order from 1740 to the present time. Emphasis is laid upon the nineteenth century, the novels selected for personal reading, for reports, for class discussions, and for papers being confined to classics of that century or the early twentieth. Reading for pleasure, as well as for profit, is an objective.

#### ENGLISH 8—DIRECTED READING (2)

The objective of this course is to encourage recreational reading. It is designed to help students to read more rapidly and with better comprehension, to stimulate the student who has not read much to develop a taste for reading, and to develop in all a discriminating sense in the choice of books.

#### ENGLISH 10a-10b—JOURNALISM (2)

A study of representative newspapers, designed to supply the student with appropriate standards for the reading of the newspaper and evaluating the significance of events. Instruction and practice in news writing, head-writing, page make-up, and proof-reading. Members of the class write material for the local city daily, the Campus and the Tartar.

Prerequisite: Satisfactory score in English Placement Test or English 51.

#### ENGLISH 51 (3)—Either Semester

A constructive, as well as a corrective, course in English expression, both oral and written, primarily intended for those who fall below the median score in the Placement Test.

#### COMMERCE 60a-60b—BUSINESS ENGLISH (3-3)

See Commerce

## B. Speech Arts

### PUBLIC SPEAKING 1a-1b (3-3)

Deals primarily with construction and delivery of short speeches. Each student is required to deliver a minimum of ten speeches for 1a, and fifteen speeches for 1b.

Prerequisite: Satisfactory score in English Placement Test or English 51.

### PUBLIC SPEAKING 5a-5b—ARGUMENTATION AND DEBATE (3-3)

Squad practice in preparation for intercollegiate debates. Considerable practice in actual debating. Training in research, discussions, logical analysis, forcefulness and fluency of delivery. Especially good for pre-legal students.

### PUBLIC SPEAKING 21 (3)

This course is designed particularly for those students who expect to take teacher training work at Fresno State College. Practice is given in reading and interpretation. Pronunciation, enunciation, tone quality, vocal variety, and physical control are considered.

### PUBLIC SPEAKING 33 — PLAY PRODUCTION (2)—

The technique of acting and directing are studied. As a term project students will do production work on plays.

### PUBLIC SPEAKING 51a-51b (3-3)

A practical course in public speaking designed for those who intend to go directly into homemaking or business upon the completion of their junior college work. Poise, self-confidence, voice, and parliamentary procedure are stressed.

## FOREIGN LANGUAGES

### FRENCH 1a—ELEMENTARY FRENCH (5)

For students who have had no previous French. The essentials of grammar as a basis for reading, speaking, and writing correctly the French language; reading of simple French stories; practice in conversation.

### FRENCH 1b (5)

Continuation of 1a.

Prerequisite: French 1a or one year of high school French.

#### FRENCH 1c—INTERMEDIATE FRENCH (3)

Grammatical review and composition. Reading and interpretation of typical French writers as: Moliere, Maupassant, Daudet, Hugo.

Prerequisite: French 1a-1b or two years of high school French.

#### FRENCH 1d (3)

Continuation of French 1c.

Prerequisite: French 1c or three years of high school French.

#### FRENCH 6a—ADVANCED SYNTAX AND COMPOSITION (2)

Conducted entirely in French.

Prerequisite: French 1a-1b or two years of high school French. May be taken concurrently with French 1c.

#### FRENCH 6b (2)

Continuation of French 6c.

Prerequisite: French 6a or three years of high school French. May be taken concurrently with French 1d.

#### GERMAN 1a—ELEMENTARY GERMAN (5)

Pronunciation; essentials of grammar; emphasis on reading.

#### GERMAN 1b (5)

A continuation of German 1a. Conversation; drill on verbs; more extensive reading; short stories by representative authors studied.

Prerequisite: German 1a, or one year of high school German with grade "A" or "B"; or two years with "C."

#### GERMAN 1c—ADVANCED GERMAN (3)

Classics, and modern literature. Collateral reading of novels and plays. Conversation; written reproduction of material studied.

Prerequisite: German 1b, or two years of high school German with grade "A" or "B."

GERMAN 1d (3)

Continuation of 1c. More extensive reading.

Prerequisite: German 1c.

SPANISH 1a—ELEMENTARY SPANISH (5)

Pronunciation; essentials of grammar; drill on verbs; emphasis on ability to read; Spanish spoken in class as much as possible.

SPANISH 1b (5)

Continuation of Spanish 1a. Idioms stressed; reading material based on Spanish-American countries; conversational Spanish emphasized.

Prerequisite: Spanish 1a, or one year of high school Spanish with grade of "A" or "B", or two years with grade of "C."

SPANISH 1c—ADVANCED SPANISH (3)

Modern and classical novels and dramas studied. Spanish used in class room as much as possible. Written reproduction of material read. Collateral reading of representative authors, with consideration of previous experience in reading.

Prerequisite: Spanish 6a, or two years of high school Spanish. May be taken concurrently with Spanish 6a.

SPANISH 1d (3)

Continuation of 1c. One novel, one drama, and collection of short stories studied. Brief survey of Spanish literature. Collateral reading of Spanish-American authors.

Prerequisite: Spanish 1c, or three years of high school Spanish.

SPANISH 6a — ADVANCED SPANISH COMPOSITION (2)

Review of syntax; written and oral composition based on text dealing with Spanish-American countries.

Prerequisite: Spanish 1b, or two years of high school Spanish with grade "A" or "B."

SPANISH 6b (2)

Continuation of Spanish 6a. Greater emphasis on idioms and Spanish conversation. Original compositions; written reproduction.

Prerequisite: Spanish 6a, or three years of high school Spanish.

## **HEALTH AND PHYSICAL EDUCATION**

### **HYGIENE (1)—HEALTH PROBLEMS (2)**

Required of all students. Separate sections are offered for men and women with differing emphases.

A consideration of physical and mental well-being. The effect of exercise and fatigue; proper selection of food; the avoidance of infections; mental and emotional habits; non-communicable diseases; community hygiene problems.

### **PHYSICAL EDUCATION FOR MEN ( $\frac{1}{2}$ - $\frac{1}{2}$ )**

Two hours of physical education activities per week; soccer, tumbling, and sports.

Required of all men students.

### **PHYSICAL EDUCATION FOR WOMEN ( $\frac{1}{2}$ - $\frac{1}{2}$ )**

Two hours of physical education activities per week; badminton, baseball, hockey, speedball, volleyball, tennis, and dancing.

Required of all women students.

## **HOMEMAKING**

### **HOMEMAKING 33a-33b—NUTRITION AND DIETETICS (2-2)**

A course planned to meet the laboratory nutrition requirement for nurses, including a study of normal food requirements; composition and function of foods for children and adults; the digestion and absorption of foods.

### **HOMEMAKING 50a-50b—PRESENT-DAY LIVING (2-2)**

Social and economic problems of a girl in her home and community life. Short units: Personality Development, Clothing, Consumer Education, Home Management, and Family Relationships.

## **HUMANITIES**

### **HUMANITIES SURVEY 1a-1b (3-3)**

A course designed to give an understanding of man's

attitude toward life as revealed in art, in music, in literature, and in philosophy.

## MATHEMATICS

### MATHEMATICS 1—INTERMEDIATE ALGEBRA (3)

Rapid review of elementary algebra; exponents; radicals; progressions; quadratic equations; logarithms; the binomial theorem.

Prerequisite: One year of high school algebra. This course is not open to students who have received credit for two years of high school algebra.

### MATHEMATICS C—TRIGONOMETRY (3)

Trigonometric functions of any angle; logarithms; solution of triangles; trigonometric equations.

Prerequisites: Plane geometry; one year of high school algebra.

### MATHEMATICS 3a—ANALYTIC GEOMETRY (3)

This course includes conic sections and general equations of the second degree.

Prerequisites: One year of high school algebra or mathematics 1; plane geometry; plane trigonometry.

### MATHEMATICS 3b—DIFFERENTIAL CALCULUS (3)

Differentiation of algebraic and transcendental functions; maxima and minima problems, radius of curvature; special stress on parametric representation and polar coordinates.

Prerequisites: Mathematics 3a.

### MATHEMATICS 4a—INTEGRAL CALCULUS (3)

The integration of algebraic and transcendental functions; the areas and volumes of plane figures in polar and Cartesian coordinates; physical applications of work, pressure, attraction, and center of gravity.

Prerequisites: Mathematics 3a-3b.

### MATHEMATICS 8—COLLEGE ALGEBRA (3)

Mathematical induction; determinants; higher equations; theory of equations.

Prerequisites: Two years of algebra in the high school, or Mathematics 1.

## MATHEMATICS 10 (3)

A review in the fundamentals of arithmetic, intended primarily for prospective teachers.

## MECHANICS

### MECHANICS 51a-51b—AUTOMOTIVE MECHANICS (3-3)

Instruction in the theory, operation, and repair of the automobile, including routine work as in commercial shops.

### MECHANICS 52a-52b—APPLIED ELECTRICITY (3-3)

A foundation course. The student is familiarized with the use of the tools and materials, and in the handling of circuits and apparatus. Each student constructs devices that successfully operate.

### MECHANICS 53a—CARPENTRY (3)

A course dealing with the building materials, details of construction, estimating, carpentry tools, and simple building repair.

### MECHANICS 53b—MILL CABINET WORK (2)

A course in advanced use of woodworking machinery, its care and repair, and the study of millwork for building construction.

### MECHANICS 54a-54b—MECHANICAL TRADES (Credit By Individual Arrangement.)

Theory and practice in the use of tools, cutting of materials, making layouts and working drawings, blueprint reading, and operating special job machines, including the estimating and study of materials.

Pre-trade apprenticeship training in: oxy-acetylene welding and brazing, soldering and tinning, sheetmetal work, ornamental iron work, engine lathe work and wood turning, and carpentry.

### MECHANICS 55a-55b—BUILDING TRADES (Credit By Individual Arrangement.)

Approved students may enroll in the building trades cooperative course in which instruction will be given in carpentry, wiring, plastering, painting, and plumbing. Each qualified student may specialize in developing skill in any one trade under local master artisans on the job.



## MUSIC

### MUSIC 1a-1b—MIXED CHORUS (1)

Chorus in a cappella as well as accompanied music—solos, trios, sextettes, and quartettes.

### MUSIC 2a-2b—MEN'S GLEE (1-1)

Training in working principles for the use of the singing voice in ensemble, quartettes, trios, and a cappella groups as well as accompanied music.

### MUSIC 9a-9b—PUBLIC SCHOOL MUSIC (3-3)

Includes sight-singing, melodic and rhythmic dictation, methods of teaching rote, observation, study and reading songs.

Lower division requirement for general elementary certificate.

### MUSIC 50a-50b—ELEMENTARY ORCHESTRA (1-1)

A course for beginners in all instruments.

### MUSIC 51a-51b—ADVANCED ORCHESTRA (1-1)

Accepted students have opportunity for advanced instruction with the concert orchestra.

### MUSIC 52a-52b—ELEMENTARY BAND (1-1)

A course for beginners in all instruments excepting strings.

### MUSIC 53a-53b—ADVANCED BAND (1-1)

Accepted students have opportunity for advanced instruction with the concert band.

## PHILOSOPHY

### PHILOSOPHY 10a-10b (3-3)

A course in the history of philosophy, chronologically considered, placing in the foreground the major philosophers of each period and school, so as to interpret the major philosophic systems and to trace the development of philosophic thought from the early Greek period to the Scientific Era. Evolution and modern tendencies in philosophy receive initial attention and acquaintanceship toward the close of the second semester.

## PSYCHOLOGY

### PSYCHOLOGY 1a-1b—GENERAL PSYCHOLOGY (3-3)

Treats of the total activities of the individual. Special em-

phasis is placed on individual development, intelligence, learning, habit formation, perception, imagination, thinking, and the factors of personality. The second semester course considers especially the different psychological systems, elaborate glimpses of psychology in several fields plus an introduction to the psychology of abnormal people.

## SCIENCE

### ANATOMY 1a (3)

A study of the body first as an integrated whole, followed by a consideration of the organ systems in succession with enough histology added to make the study of gross structures more meaningful. Designed to meet the requirements for pre-nursing courses and as a cultural course in human biology.

Prerequisites: None. High school biology and chemistry are recommended.

### BACTERIOLOGY 6o (5)

A course designed for pre-nursing students. The subject matter comprises the elementary principles and practices of medical bacteriology.

Prerequisites: None. High school chemistry and a biological science recommended.

### BIOLOGY 1a-1b (5-5)

A study of biological processes, principles, and laws as observed in plants, animals, and man. Environmental relations and economic importance of specific organism are considered. Genetics, including introductory cytology, variations, heredity, and eugenics is emphasized.

Prerequisite: None. High school chemistry or high school physics recommended though not required.

### CHEMISTRY 1a-1b—GENERAL CHEMISTRY (5-5)

A thorough course intended for those whose future work lies in the professional fields needing chemistry as a background.

Prerequisite: None. High school chemistry or high school physics recommended though not required.

### CHEMISTRY 53a-53b (5-5)-ELEMENTARY CHEMISTRY

Fundamentals of chemistry, with mathematical phases subordinated. Industrial and commercial practices emphasized.

Prerequisite: None.

## CHEMISTRY 60 (5)

A survey course covering the principles of chemistry applicable to the nursing field.

Prerequisite: None.

## GEOLOGY 1a—PHYSICAL GEOLOGY (4)

Study of dynamical geology. Laboratory study of rock and mineral specimens; topographical and geologic maps; supplemental field trips.

Prerequisite: None. Chemistry recommended.

## GEOLOGY 1b—HISTORICAL GEOLOGY (3)

Study of origin of the earth and other members of our planetary system from the beginning of geologic time to the present day; evolution of plant and animal life as shown by index fossils; field trips.

Prerequisite: Geology 1a; biology recommended.

## PHYSICS 1a-1b—GENERAL PHYSICS (3-3)

Fundamental treatment of the general principles of physics, including mechanics, heat, hydraulics, hydrostatics, and properties of matter.

Prerequisite: High school physics or high school chemistry recommended. Trigonometry recommended but may be taken concurrently.

## PHYSICS 53a-53b (3-3)—ELEMENTARY PHYSICS

A survey of Physics with applications to industry and modern life.

Prerequisite: None.

## PHYSIOLOGY 1b (4)

A survey of the body structures with special emphasis on the functioning of these structures. Prominence is given to the neuro-muscular, sensory, metabolic, and excretory functions. Designed to satisfy the requirements for pre-nursing courses and as a cultural course in human biology.

Prerequisite: Anatomy 1a.

## ZOOLOGY 1a-1b—GENERAL ZOOLOGY (5-5)

A study of the basic principles of animal biology with special emphasis on morphology, taxonomy, ecology, physiology, with introductory embryology, heredity and theories of evolution. Special emphasis is placed on comparative anatomy and microzoology. Satisfies pre-professional and general university requirements.

Prerequisites: None. High school biology and chemistry are recommended.

## SOCIAL SCIENCE

### POLITICAL SCIENCE 1a-1b — COMPARATIVE GOVERNMENTS (3-3)

This is the 1a-1b course given at the University of California (the only undergraduate political science course) and is a prerequisite for advanced courses in political science. A study of the major governments of the world, elementary principles of political science, and the forces behind political processes.

A. (First Semester) The governments and parties of Great Britain and the British Commonwealth of nations; of France and her dependencies.

B. (Second Semester) The governments of Switzerland, Italy, Germany, Russia, and Japan.

### POLITICAL SCIENCE 5a (2)—Either Semester

A study of the Constitution of the United States of America. With this background American institutions and ideals are stressed.

### ECONOMICS 1a-1b (3-3)

This course includes a study of the consumption, production, distribution, and exchange of goods. Taxation and reform are considered at some length.

### GEOGRAPHY 1b—REGIONAL GEOGRAPHY (3)

A review of geography. Attention is given to maps, stressing the political boundaries and the physical aspects.

### GEOGRAPHY 5a—ECONOMIC GEOGRAPHY (3)

A course in the economic, physical, and commercial aspects of world geography.

### HISTORY 8a-8b—HISTORY OF THE AMERICAS (3-3)

A general survey of the history of North and South America. Background of discovery, exploration and colonization, independence movements, and national development. First semester devoted to Latin-America, second semester United States, Canada, and international relationships.

### HISTORY 4a-4b—HISTORY OF WESTERN EUROPE (3-3)

This is a broad survey of western civilization. An introduction to the study of history, giving a general perspective of social, economic, and cultural factors which explain our present day civilization. First semester to 1800; second semester to the present. A required course for history majors.