

VISALIA JUNIOR COLLEGE

JUNIOR COLLEGE BULLETIN
1942 - 1943



Published by

BOARD OF TRUSTEES

Visalia Union High School and Junior College District

VISALIA, CALIFORNIA

April, 1942

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CALENDAR

1942 - 1943

FIRST SEMESTER

September 14, 1942—January 29, 1943

September 12	Placement tests
September 14, 15	Registration
September 16	Class instruction begins
October 23	Last day to drop subject without penalty
November 11	Armistice Day
November 26, 27	Thanksgiving holiday
December 21-January 4	Christmas holiday
January 25-January 29	Semester examinations
January 29	End of first semester

SECOND SEMESTER

February 1, 1943

February 1	Placement tests
February 2, 3	Registration
February 4	Class instruction begins
March 19	Last day to drop subject without penalty
April 19-April 25	Easter vacation
June 7-June 11	Semester examinations
June 11	End of second semester
June 15	Commencement

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FACULTY

* Alfred J. Boradori, ^{Boradori} A. B. _____ Aeronautics
Ethel Wallace Bryant, A. B. _____ English
* George Burris, B. M. _____ Music
* Richard E. Carney, A. B. _____ Commerce
* Kenneth Carpenter, B. S. _____ Physical Education
Vera Charpentier, M. A. _____ French
~~Theo Chegwidden~~ _____ ~~Mechanics~~
Inez Crow _____ Commerce
* Lyman B. Curtis, M. A. _____ Commerce
R. B. Curtiss, A. B. _____ Engineering and Drawing

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	Alvin Fors, B. S.	Agriculture
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*	William T. Halstead, M. A.	Social Science
2.	Charles V. Hartung, A. B.	Social Science and Speech
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	Helen Johnson, M. S.	Science and Hygiene
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	Stanley Matheson, M. A.	English
	Karl W. Mitchell, A. B.	Commerce
5.	Dorothy Myers, B. B. A.	Commerce
1.	Howard Leroy Raphael, A. B.	Mathematics
	C. W. Read, M. S.	Science
	D. L. Rinker	Mechanics
	Alice G. Rouleau, M. A.	Art
	W. J. Sanders, M. A.	English and Philosophy
†	Royal K. Sanford, M. A.,	English and Journalism
*	Margaret E. Thomas, B. E.	Physical Education
	Arthur Timothy, M. A.	Psychology and Speech
	Helen L. Walker, B. S.	Nurse
	P. F. Wilhelmsen, A. B.	Physical Education
	* Absent on Leave.	

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 is essential to success in the complex situations of modern life and should be made a part of the public school systems.

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 services 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.

With the beginning of the fall semester of 1940, the junior college entered upon a new phase of its development. The college moved to its own campus consisting of fifty acres of land with newly constructed buildings to accommodate one thousand students, the first unit of a plan which may be developed further as required. This change has proved a great advantage in organization of instruction and in developing the various student activities. An immediate result was a marked increase in registrations and requests for further extensions of transportation.

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

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 Dean of Women and the Dean of Men.

The degree of Associate in Arts will be granted to the student who completes satisfactorily a prescribed course of study at this school in which he has accomplished the lower division requirements for the college or university to which he plans to transfer. 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.

The college will issue to each student a certified transcript of record, and application for junior standing can be made by the student to the university chosen. The student who plans to transfer to another institution should familiarize himself with the lower division and major requirements of the institution of his choice, and choose his course in junior college according to these requirements.

The degree of Associate in Arts will be granted to the student who completes satisfactorily a two-year course in the field of terminal or general education. Terminal courses, numbered from 50 to 100, are offered for students who plan to complete only a two-year program of work. Credit toward a Bachelor in Arts degree is not guaranteed for such courses. The purpose of these courses 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. Upon registration each semester, the student receives a student body card which entitles him to participate in the activities of 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 the Executive Board, 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: Associated Women's Activities, Associated Men Students, Sans-Soucis (French Club), German Club, Spanish Club, Photography Club, Art Club, Student Christian Association, Newman Club, Varsity Club, Chi Omega Pi (women's commercial club), Sigma Zeta Pi (pre-nurses' club), International Relations Club, Beta Phi Gamma (honorary journalistic fraternity), Phi Rho Pi (honorary forensic fraternity), and Alpha Gamma Sigma (scholarship society). In addition there are two social fraternities: Tau Delta Pi and Beta Kappa Sigma, and two sororities, Delta Kappa Theta and Sigma Delta Xi.

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 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, a strong intra-mural program is maintained.

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 dramatics class.

Publications: The college maintains a news bureau and sponsors a weekly newspaper, The Campus, and an annual, The Tartar. In addition, the Journalism Department sponsors a campus broadcast of Visalia Junior College news and interesting items from other colleges.

Social Affairs: There are a number of 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, Soloists, Band, and orchestra furnish music for assemblies and special occasions.

WAR-TIME ACTIVITIES AND COURSES

An objective of Visalia Junior College at the present time is to make the best possible use of the school's facilities in connection with the war. Through its activities, special war-time courses and regular programs of study, the college aims to stimulate each student to seek his place in contributing to the emergency needs of the nation while at the same time

making long range plans for peace-time life in a democratic society.

Red Cross Knitting Unit: A group of college women knit for the men in service under the auspices of the local Red Cross.

Red Cross Surgical Dressing Unit: A group of prenursing students meet weekly to make surgical dressings under the direction of the local Red Cross.

Red Cross Sewing Unit: A group of college women meet regularly to make children's garments for evacuees under the auspices of the local Red Cross.

Student Defense Committee has charge of such activities as sales of War Stamps and Bonds, maintenance of a service flag, and cooperation of student activities with local Defense Committees.

Student Air Raid Wardens and First Aid Patrols are trained to meet emergencies.

First Aid Classes: Red Cross Standard and Advanced Certification courses are available to men and women.

Pre-nursing Course: Preliminary courses for hospital training schools.

See pages 28 and 29.

Home Economics 21 — "New Garments for Old:" A course in clothing construction open to all women students who, through the re-making of garments, are interested in an opportunity to conserve materials and be well dressed.

Commerce:

(a) Refresher courses are offered in shorthand, typewriting, office machines, and allied subjects for the purpose of fitting those who have had previous training but have not been employed recently, to accept clerical positions or to prepare for state or federal civil service examinations.

(b) An intensive one-year stenographic course is open to anyone who, although he has had no previous commercial training, wishes to obtain typewriting and stenographic skills. This course has been set up to meet the increasing demand for trained office workers.

See suggested program page 32.

Military: Fundamentals of basic military training open to all male students who are physically fit.

C. P. T.—Civilian Pilot Training including Navigation, Meteorology, Civil Air Regulations, and General Service and Air Craft Operation.

Map Reading: A course in map interpretation and map study for men who plan for army or naval service.

Welding and Machine Lathe: Refresher courses offered in these and allied subjects fitting men for efficient participation in war industries.

Building Trades Program: Training for men in defense construction.

See Mechanics 55a-55b, page 53.

America at War: A course open to all students which is designed to further knowledge of the backgrounds of the present war and its already apparent effects upon American life.

Army Air Force Enlisted Reserve: A program under the guidance of the U. S. Army Air Force is being formulated by which college men may have the opportunity of enlisting in this branch of the service and be deferred from active duty until their formal education is completed.

V-1 Naval Program: A course set up by the U. S. Navy for the training of prospective naval reserve officers who, after enlistment in the naval reserve, may continue in college in an inactive naval status.

See page 56.

WAR SERVICE INFORMATION

Information concerning courses for nurses, hospital dietitians, work in defense industries, work in volunteer defense activities, and clerical positions, including both state and federal civil service is available to the college women in the office of the Dean of Women.

Information concerning military, naval, and related war service is available to the college men in the office of the Dean

of Men. The students have access to an up-to-date reference file containing not only the most recent materials issued by the army and navy, but an excellent cumulative circular, *War Service Opportunities*, published by the American Council of Education. This circular includes pertinent information concerning Aeronautics, Naval Reserve, Coast Guard, Officers' Reserve, and Merchant Marine.

TRANSPORTATION

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

EXPENSES

No tuition is charged by Visalia Junior College. An activity fee of five dollars, however, is payable each semester at the time of registration.

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

Text books and stationery will cost approximately twelve dollars a semester depending upon the course for which the student registers. A limited number of used text books are available at the office at the beginning of each semester.

STUDENT HEALTH SERVICE

A public health nurse holds office hours every afternoon in the Women's Gymnasium. Students desiring advice on health problems are free to consult her whenever they desire. First aid is available at all times.

The students are urged to make use of this service.

LIVING ACCOMMODATIONS

A list of available living quarters for students who are away from home is on file in the Deans' offices. Students are required to have such living accommodations approved by the Dean concerned 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 either the Dean of Women or the Dean of Men.

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

LIBRARY

The well-lighted library is located in the main building and provides adequate seating space for students and faculty.

A carefully selected and well-rounded book collection meets the present demands of the curriculum and recreational reading needs. Adequate financial support insures rapid growth and the maintenance of highest library standards. The library subscribes to the leading current periodicals and important metropolitan newspapers.

Open stacks make all of the book collection and the bound periodicals easily accessible. At the request of instructors, books in demand are placed on reserve for period and overnight use. The book collection is supplemented by loans from the State Library.

LOANS AND SCHOLARSHIPS

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

A substantial sum has recently been made available as a loan fund for students who need financial assistance to complete their education at an institution of higher learning. A requirement is that the applicant have completed at least one

year's work at Visalia Junior College or two years' work if this college offers a satisfactory two-year curriculum for the student's major.

Application for such a loan should be made through the Dean of Women or the Dean of Men to the Trustees of the Fund.

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 such admission may be removed by completing in the junior college with a grade of "A," "B," or "C" a college course in the group or groups of subjects in which the deficiencies lie.

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;

For this purpose the college offers, in addition to the regular college courses, intensive one-semester courses in both first-year algebra and plane geometry which carry no college credit.

Repetition of college courses for the purpose of removing grade deficiencies is permissible, and the student will be credited with the grade he receives upon the first repetition of the course.

Registration

Two 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 to which he may be admitted.

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 college schedule comprises sixteen units of work exclusive of physical education, military or first aid. 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 additional units to complete required work for graduation.

Placement Tests

Placement tests are given in September, February, and May of each year in English, Gregg shorthand, and type-writing.

For those who wish to take academic courses in English or Speech, a test is provided at this time, which will determine the placement of the student in the various English courses.

A satisfactory score in the test is requisite for admission to the basic courses, such as English 1a and English 1b, Speech 1a and Speech 1b.

For those students who plan to major in commerce, a special placement test is offered in English, which will determine the student's placement in the commercial English courses; Commerce 60a and Commerce 60b.

Placement tests are provided for those students who have had previous training in either Gregg shorthand or typewriting or both of these subjects, which will determine the placement of the student in the various shorthand and typewriting classes.

Physical Education Requirement

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 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 college.

Attendance

Regularity of attendance is fundamental to satisfactory progress in the college. The financial support of the school is based upon the average daily attendance of the students. Every student, therefore, should assume the responsibility of regular 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.

Registration and enrollment in classes in this college presuppose that recitations, lectures, and laboratory sessions will be attended regularly. Attendance is a matter between the instructor and the student. If continued absence requires disciplinary action, the matter will be brought to the attention of the Dean of Women or Dean of Men.

Leave of Absence

Students finding it necessary to be absent for one week or more are instructed to file with the proper dean a leave of absence request stating the reason for the absence. Favorable action upon the request will insure an opportunity to make up the classes missed without loss of credit. No leaves 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 Dean concerned.

Withdrawals from Course or College

Students desiring to withdraw from a course or from college should complete and file the proper request with 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 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.

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 approval of the 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 degree of Associate in 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 degree of Associate in Arts is conferred under Plan One on all students who shall have completed satisfactorily ("C" average) a two-year junior college curriculum of 66 semester units including:

1. Four 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. Any six units of English or public speaking or any combination. An exception to this is made for students majoring in the Building Trades Course where a special three-unit course in English fulfills the necessary requirements. Students majoring in Commerce are required to complete four courses in English (9 to 12 units).
5. A major consisting of at least 20 units in a specified field of study.

The requirements 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
- GROUP VI. Mechanics
- GROUP VII. Commerce
- GROUP VIII. Drafting
- GROUP IX. Building Trades

PLAN TWO

The degree of Associate in 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 66 semester units, including:

1. Four 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. Six units in English.
5. The completion of the lower division requirements and major 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 (66 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, a copy of which is on file in the junior college library or which may be easily obtained by writing to the Registrar of the institution in which the student is interested.

REQUIREMENTS FOR JUNIOR STANDING IN CALIFORNIA COLLEGES AND UNIVERSITIES

Three principal kinds of requirements must be met in order for a student to attain full junior standing at the Uni-

versity of California or other institutions 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 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

LETTERS AND SCIENCE

The degree of Associate in Arts 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
 - Hygiene and Military Science, two units
 - Physical Education—Los Angeles
- 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 sub-

jects 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.
6. Fine Arts—Berkeley

7. Art and Music—Los Angeles

8. Psychology—Los Angeles

COLLEGE OF APPLIED ARTS—LOS ANGELES

These requirements are the same as for junior standing 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 requirements, and that the other year-course to satisfy the Group E requirements may be chosen from the following list: Economics 1a-1b, Geography 1a-1b, History 4a-4b or 8a-8b, Political Science 1a-1b, Philosophy 10a-10b, 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

Changes in the admission requirements of Stanford University are clarified in the following statement from the Registrar of the university:

"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 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 University of California 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.
Twelve units in a single language. 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 or 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, 6 units.

F. Physical Education and Health, 5 units.

G. 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 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 school education are as follows:

A. General Requirements.

Subject A or its equivalent.

- Physical Education and Hygiene, 6 units.
First Aid, 1 unit.
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.
Mathematics 10—Fresno.
- D. English, 6-12 units.
English 1a-1b, Speech 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 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. 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.
- I. Electives to bring total to 66 points.

Note: For the special secondary teaching credential in art, commerce, home economics, mechanic arts, music, and physical education, students should consult the specific curricular 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 or 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. The B. S. degree may be obtained by completing an additional year of university study after the student has received the R. N. certificate. For admission to hospital training schools, the student must complete at least thirty units of a college pre-nursing course with a "C" average.

The period required for completion of the training course in an accredited school of nursing is thirty-six months, whether or not the applicant has attended college. However, the Bureau of Registration of Nurses will give credit for the basic sciences if successfully completed, thus enabling the student to devote more time to the actual study of nursing. Subjects for which credit may be received are: Anatomy, Physiology, Chemistry, Bacteriology, Hygiene, Nutrition, and Psychology.

This curriculum presupposes that the student has completed in high school the following courses: Algebra, Geometry, Chemistry, and two years of foreign language.

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 hospital schools have specific subject requirements which must be met.

Because of the increasing demand for nurses since January, 1942, hospitals have made changes in the number of new classes they accept annually and the dates of registration for these classes. The college faculty adviser for the pre-nursing group will keep the students informed of changes in such matters as she receives information.

SUGGESTED ONE-YEAR COURSE

First Semester	Units	Second Semester	Units
Chemistry 1a or		Bacteriology 60	5
Chemistry 60	5	Physiology 1b	4
Anatomy 1a	4	English 1b	3
English 1a	3	Hygiene	2
Nutrition 1a	2	Nutrition 1b	2
Psychology 1a	3	Physical Education	1
Physical Education	1		
	18		17

SUGGESTED TWO-YEAR COURSE

First Year

First Semester	Units	Second Semester	Units
Chemistry 1a or		Bacteriology 60	5
Chemistry 60	5	Physiology 1b	4
Anatomy 1a	4	English 1b	3
English 1a	3	Electives	3
Electives	3	Physical Education	1
Physical Education	1		
	16		16

Second Year

First Semester	Units	Second Semester	Units
Psychology 1a	3	Psychology 1b	3
Nutrition 1a	2	Nutrition 1b	2
Hygiene	2	Political Science 5	2
English or		English or	
Speech	3	Speech	3
Economics 1a	3	Economics 1b	3
Electives	3	Electives	3
Physical Education	1	Physical Education	1
	17		17

DEPARTMENT OF COMMERCE

CURRICULA

Instruction is offered to students in three major divisions of business education: Accounting, General Business, and Secretarial Training. General background courses are strongly recommended as they provide a better understanding of modern business. It is advisable for students to follow as closely as possible the general scheme of courses suggested in these major fields.

An effort is made to encourage students to work to capacity and to progress as rapidly as is consistent with the high standards which are required. In order to do this effectively, students who have had previous training in shorthand and typewriting are registered in classes according to their Placement test scores. Those who have not had previous training in these subjects are not required to take the tests and must register in elementary classes.

SUGGESTED COURSE IN GENERAL BUSINESS

First Year

First Semester	Units	Second Semester	Units
Commerce 60a—Business		Commerce 60b—Business	
English	3	English	3
Commerce—		Commerce—	
Typewriting	2	Typewriting	2
Commerce 69a—Business		Commerce 69b—Business	
Principles	3	Principles	3
Commerce 62a—		Commerce 62b—Business	
Business Law	3	Law	3
Physical Education	1	Physical Education	1
Electives	4	Electives	5
<hr/>		<hr/>	
Total	16	Total	17

Second Year

First Semester	Units	Second Semester	Units
English	3-2	English	3-2
Commerce 76a—		Commerce 76b—	
Merchandising	3	Merchandising	3
Commerce 71—Filing	1	Commerce 68a—Office	
Speech 51a	3	Machines	2
Physical Education	1	Speech 51b	3
Political Science 5	2	Physical Education	1
Electives	4-5	Hygiene	2
	17	Electives	2-3
Total	17	Total	16

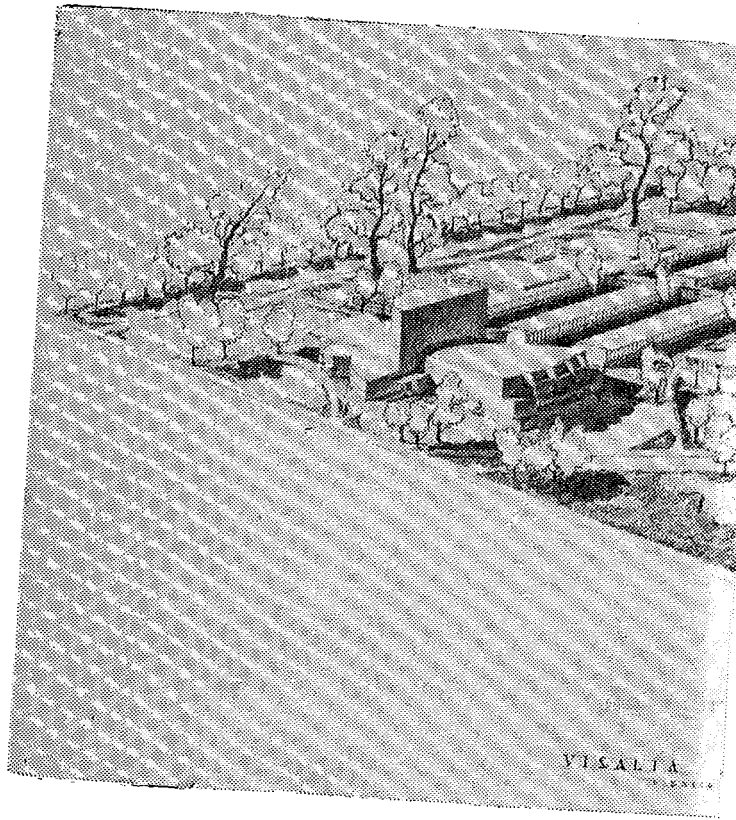
SUGGESTED COURSE IN ACCOUNTING

First Year

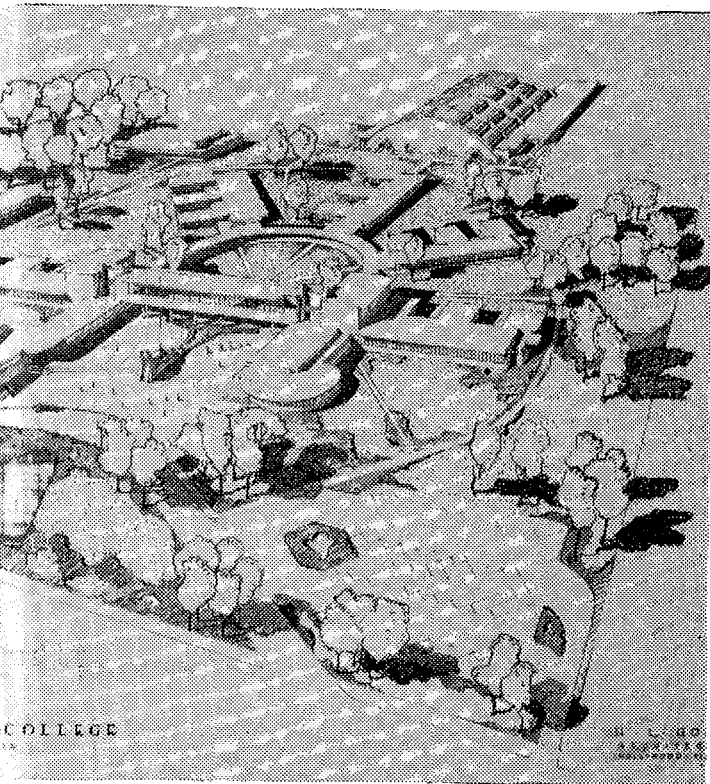
First Semester	Units	Second Semester	Units
Commerce 6a or 63a—		Commerce 6b or 63b—	
Accounting	3	Accounting	3
Commerce—		Commerce—	
Typewriting	2	Typewriting	2
Commerce 69a—Business		Commerce 69b—Business	
Principles	3	Principles	3
English	3-2	English	3-2
Physical Education	1	Physical Education	1
Electives	4-5	Electives	5-6
	16		17
Total	16	Total	17

Second Year

First Semester	Units	Second Semester	Units
Commerce 64a—		Commerce 64b—	
Accounting	3	Accounting	3
Commerce 62a—		Commerce 62b—	
Business Law	3	Business Law	3
Commerce 60a—		Commerce 60b—	
Business English	3	Business English	3



The master plan of the Visalia Junior College here of time to keep pace with the growth of the college. The building includes a gymnasium, library stack room, student recitation rooms, shops, and other facilities to provide for the immediate needs of the junior college and to provide for the future. These first units the junior college maintains an entirely



provides for the expansion of the plant over a long period
which have been constructed include class rooms, labora-
administration offices, sufficient to meet the im-
measurable increase in attendance. With the completion of
organization.

Commerce 68a—		Commerce 71—	
Office Machines	2	Filing	1
Political Science 5	2	Hygiene	2
Physical Education	1	Physical Education	1
Electives	3	Electives	3
	<hr/>		<hr/>
Total	17	Total	16

SUGGESTED COURSE IN SECRETARIAL TRAINING

First Year

First Semester	Units	Second Semester	Units
Commerce 52—		Commerce—	
Shorthand	5	Shorthand	5
Commerce—		Commerce—	
Typewriting	2	Typewriting	2
Commerce 69a—		Commerce 69b—	
Business Principles	3	Business Principles	3
English	3-2	English	3-2
Physical Education	1	Physical Education	1
Electives	3-4	Electives	2-3
	<hr/>		<hr/>
Total	17	Total	16

Second Year

First Semester	Units	Second Semester	Units
Commerce 70—		Commerce 80—	
Shorthand	5	Shorthand	3
Commerce 60a—		Commerce 60b—	
Business English	3	Business English	3
Commerce 68a—		Commerce 78b—	
Office Machines	2	Secretarial Practice	3
Commerce 78a—		Political Science 5	2
Secretarial Practice	3	Physical Education	1
Commerce 71—Filing	1	Electives	4
Hygiene	2		<hr/>
Physical Education	1	Total	16
	<hr/>		<hr/>
Total	17	Total	16

SUGGESTED PROGRAM FOR ONE-YEAR INTENSIVE COURSE

An intensive course is offered to any one who wishes to obtain stenographic skills in the shortest time possible. For this reason no electives are permitted. Students must devote from three to four hours a day to shorthand and typewriting in the class room in addition to an equal amount of outside preparation.

In this one-year program, students may substitute accounting courses for shorthand, and qualify for accountants and general office clerks.

First Semester	Units	Second Semester	Units
Commerce 50a—		Commerce 70a—	
Shorthand	5	Shorthand	5
Commerce 53—		Commerce 54b—	
Typewriting	2	Typewriting	2
English, or Speech 51a	3	English, or Speech 51b	3
Commerce 68a—		Commerce 52a—	
Office Machines		Review Shorthand	
(nine weeks)	1	(nine weeks)	2
Commerce 51a—		Commerce 78b—	
Transcription		Secretarial Practice	
(nine weeks)	2	(nine weeks)	2
Physical Education	1	Physical Education	1
Total	14	Total	15

Description of Courses

AERONAUTICS

Visalia Junior College offers four major courses to aid students with aviation interests. While chief emphasis is now placed on pilot training, specialized courses will be added as rapidly as possible.

AVIATION 50 — C.A.A. PILOT TRAINING CONTROLLED PRIVATE COURSE (4 units for ground school work and 2 units for flight).

This course consists of a minimum of 72 class hours of ground instruction in Civil Air Regulations, Navigation, Meteorology, Theory of Flight and Aircraft; and 35 to 50 hours of flight instruction in Class I aircraft.

Requirements: Applicant must be eighteen years of age, have completed one full year of college work, and must be enrolled in the college with 15 units of work completed at the time of application for admittance to the course.

AVIATION 51—C.A.A. PILOT TRAINING CONTROLLED SECONDARY COURSE (8 units for ground school work and 2 units for flight).

This course requires a minimum of 108 class hours of ground instruction consisting of:

30 hours in Aerodynamics, 40 hours in Power Plants, 38 hours in Navigation and Radio; and 40 hours of flight instruction consisting of familiarization with aircraft, acrobatics, and cross country.

Requirements: The same as listed for private phase plus satisfactory completion of the Private Course. In addition, the applicant must have the approval of the Coordinator of Civil Pilot Training plus the approval of the Flight Contractor.

AVIATION 62a—AIRCRAFT BLUEPRINT READING (3).

The student is taught to visualize objects related to the aircraft industry, to describe them in true shape, size, location and material, and to know the nomenclature for aeronautics.

AVIATION 62b—AIRCRAFT DRAFTING (3).

This course covers drafting fundamentals and their application in the aviation industry. Problems follow the practices used in aircraft drafting rooms throughout the United States.

AVIATION 64a-64b—AIRCRAFT OXY-ACETYLENE WELDING (3-3).

This course is for students whose primary interests are those of aircraft fabrication in the various factories. The work of the first semester will be largely that of welding principles, materials, and practice. The second semester will be devoted to aircraft materials and fabrication.

AGRICULTURE

Two courses are designed to help students to prepare themselves for the vocation of farming and related occupations. Current problems in agriculture are stressed.

AGRICULTURE 50—ANIMAL HUSBANDRY (3).

A vocational course including the study of the breeds, the management, and the feeding of farm animals.

AGRICULTURE 60—HORTICULTURE AND CROPS (3).

A vocational course including the study of the care and management of vines, orchards, and field crops.

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 7c—PEN AND BRUSH LETTERING (1).

A study of types of alphabets and poster making.

ART 7d—PEN AND BRUSH LETTERING cont'd. (1 or 2).

Continuation of 7c with air brush and silk screen techniques.

ART 12a—ELEMENTARY WATER COLOR (2).

ing as applied to still-life studies, fruits, etc.

A study of the theory and technique of water color painting.

ART 12b—ADVANCED WATER COLOR (2).

Landscape painting in water color.

Prerequisite: Art 12a or equivalent.

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).

An introductory course in the study of art principles applied to modern dress with particular emphasis on individual problems.

Prerequisite: Art 6a and 7a. Art 6b recommended.

ART 55—COMMERCIAL ART (2).

Poster technique, layout, newspaper and book advertising arrangement.

Prerequisite: Art 7c and 7d or equivalent Art 7a. Art 6a and 6b recommended.

ART 56a-56b—CRAFTS (2-2).

Leather tooling, metal, block printing, silk screen printing, stencilling, weaving, pottery, wood carving, plastics, glass etching, plastic decoration, etc.

COMMERCE

COMMERCE 6a-6b—PRINCIPLES OF ACCOUNTING (3-3).

A course which provides training in the setting up of a set of books, the analysis of work sheets, an interpretation of

accounting terminology, and a study of the theory of accounting technique.

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 score of sixty words a minute in the placement test in Intermediate Typewriting.

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

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

Prerequisite: A satisfactory score in shorthand placement test and sixty words a minute in typewriting.

COMMERCE 52a—REMEDIAL SHORTHAND (5-5).

Advanced shorthand dictation and transcription with special emphasis placed on remedial work in shorthand theory.

Prerequisite: Commerce 50a-50b and a satisfactory score in the shorthand placement test.

✓ COMMERCE 53a-53b—ELEMENTARY TYPEWRITING (2-2).

An elementary course covering the fundamentals of typewriting. Stress is placed upon technique, accuracy, and posture. Simple business forms, business letters, and social forms are included in the work.

Commerce 53a is open only to those students who have had no previous instruction in typewriting.

COMMERCE 54a-54b—INTERMEDIATE TYPEWRITING (2-2).

A course open to all students who have had previous instruction in typewriting and who make a satisfactory score in the placement test. The emphasis in this course is upon skill-building with intensive practice upon sentence and paragraph drills to build rapid and accurate stroking.

Typical office materials used in the typewriting problems include business letters, legal documents, and other business forms and papers.

COMMERCE 55a-55b—ADVANCED TYPEWRITING
(2-2).

A course open to all typewriting students who have a good foundation upon which to build speed. Offers reviews on all past work for the purpose of increasing speed and accuracy. The course is especially designed for those who wish positions where typewriting and dictaphone transcribing are required.

Prerequisites: Commerce 54a-54b or its equivalent and a satisfactory score in the placement test.

COMMERCE 56—TYPEWRITING FOR PERSONAL USE
(2). Spring Semester.

An intensive course planned to cover the application of touch typewriting to the personal needs of non-vocational students.

Special emphasis is placed upon such phases of typewriting as personal and business letters, simple business and social forms, and term papers and manuscripts. Open only to students who have had no previous instruction in typewriting.

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, sales 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 technique is further developed and the functions of the accountant and auditor are discussed.

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

COMMERCE 65—TRADE ACCOUNTING (2).

A course in fundamental principles of accounting for builders. Journals, ledgers, work sheets, statements, adjusting and closing entries are analyzed. Especial attention is given to those phases of most practical value to building trades students.

COMMERCE 68a—OFFICE MACHINES (2).

Either Semester.

A course of instruction in the operation of the following machines with emphasis on touch methods: Comptometer, Burroughs, Marchant and Monroe calculators; Remington-Rand, Underwood-Sunstrand adding machines; Burroughs Posting machine.

COMMERCE 68b—OFFICE MACHINES (2).

An advanced course adapted to meet the needs of students desiring intensive drill on the numerous calculating and adding machines. This course provides a background for specialized work involving advanced computations and statistics.

Prerequisite: Commerce 68a.

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—ADVANCED SHORTHAND (5-5).

Advanced shorthand dictation and transcription, vocabulary building. Special drills for improvement of typewriting.

Objective of this course is a shorthand dictation speed of 120 words per minute, with emphasis placed upon rapid transcription of shorthand notes.

Students who complete the course satisfactorily will be recommended for office positions.

Prerequisites: Satisfactory score in placement test in Gregg shorthand and typewriting.

COMMERCE 71—PRINCIPLES OF FILING (1).

Either Semester.

A course for the study of the basic rules and procedures of filing. Individual practice filing equipment allows actual practice in arranging records according to alphabetic, geographic, numeric, and subject methods of filing.

This course is recommended for accounting students as well as for general clerical and secretarial majors.

Prerequisite: Elementary typewriting.

COMMERCE 76a-76b—MERCHANDISING (3-3).

A study of retailing from the points of view of retailers and of consumers. Designed to equip the student with the fundamentals of retailing, and with information necessary for intelligent buying. Attention is focused on store operation, advertising, selling of goods and services, textiles, and retail credit.

COMMERCE 78a-78b—SECRETARIAL PRACTICE (3-3).

A required course for advanced commercial majors designed to acquaint the student with those duties, traits, and knowledges required of the secretary on the job. Special emphasis is placed on the status of secretarial work and its relation to office organization; personality development; problems of business etiquette; advice on how to obtain a position and methods of obtaining promotion to higher positions. During the year work will be given involving the operation of the Dictaphone, Ditto, Mimeograph, and Mimeoscope.

Prerequisite: Commerce 70a-70b. May be taken concurrently with Commerce 70a-70b.

COMMERCE 79—SPELLING (1).

Either Semester.

A course intended to build the student's interest in words as such; to help him spell words, to pronounce them, to use them in contexts, and to understand them.

COMMERCE 80a-80b—SHORTHAND (3).

Advanced course in speed building designed to develop dictation speed to 160 words per minute on tests of lengthy duration.

The Gregg Shorthand Court Reporting materials are used as a basis for the course.

Prerequisites: Commerce 70a-70b or its equivalent.

SPANISH 53a-53b—SPANISH SHORTHAND AND COMMERCIAL FORMS.

See Spanish.

ENGINEERING

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

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

Prerequisites: Trigonometry and Mechanical Drawing which 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 1a-1b—ELEMENTARY MECHANICAL DRAWING (3-3).

A course covering the fundamentals of mechanical drawing. 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 2a-2b—DESCRIPTIVE GEOMETRY (3-3).

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. A required course in engineering.

Prerequisite: Civil Engineering 2.

MECHANICAL ENGINEERING 6a-6b—MACHINE DRAWING (3-3).

A required course in engineering 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 1a-1b—ARCHITECTURAL DRAWING (3-3).

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 2a-2b—(3-3).

An advanced course covering plans for a two story house, with emphasis on details, shades and shadows, exterior decoration and mechanical and freehand perspective.

CIVIL ENGINEERING 2a-2b—ENGINEERING DRAWING (3-3).

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.

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.

TRADE DRAWING 1a-1b—(3-2).

A course covering the fundamentals of mechanical drawing and an introduction to architectural drawing.

TRADE DRAWING 2a—(2).

Architectural drawing in which a complete set of plans is made for a one or two-story house. Special emphasis on types of construction, detail drawings and the perspective.

BLUEPRINT READING 1—(3). Second Semester.

A course designed to prepare the student to understand the language of blueprints. It covers instruction in special fields of industry, such as cabinet work, structural steel, reinforced concrete, air conditioning, mechanical construction, etc.

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 directness 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 various forms of literature. The objective is to increase his appreciation of literary values through a critical study of selected essays, plays, short stories, poems, a biography, and a novel.

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 inspira-

tional 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). Either Semester.

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 8—DIRECTED READING (2). Either Semester.

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—ELEMENTARY JOURNALISM (2-2).

Instruction and practice in news writing, feature writing, head writing, proof reading, and page make-up. Members of the class write material for the Campus and the Tartar.

Prerequisite: Satisfactory score in English placement test or English 51.

ENGLISH 12a-12b—ADVANCED JOURNALISM (3-3).

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. In addition, members of this class will edit and make up the Campus as part of their semester's work. In the second semester some discussion of newspaper ethics and the libel laws, as well as history of journalism will be studied.

Prerequisite: English 10a and 10b or its equivalent.

ENGLISH 51a—(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.

ENGLISH 51b—(3).

A constructive and corrective course in reading with a sufficient amount of informal writing and functional grammar to meet the student's need. The improvement of reading skills is stressed.

ENGLISH 55—TRADE ENGLISH (3).

A course designed for students of the Building Trades department. The primary purpose of the course is to fill the essential language needs of the Building Trades student.

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

See Commerce.

COMMERCE 79—SPELLING (1).

See Commerce.

B. Speech Arts

SPEECH 1a-1b (3-3).

This course is concerned primarily with training in meeting practical speech situations. The first semester concentrates on the fundamentals such as techniques of finding and organizing speech materials, effective use of the speaking voice in oral communication, and good platform manners. The second semester centers around the study of various types of speech such as speeches to inform, to entertain, and to persuade.

Prerequisites: Satisfactory score in English placement test or English 51a.

SPEECH 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.

SPEECH 21—VOICE (3). Either Semester.

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.

SPEECH 33—PLAY PRODUCTION (2).

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

SPEECH 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.

SPEECH 40—RADIO SPEECH (2). First Semester.

A laboratory course in microphone technique in radio speech. Voice control, diction, and radio drama are studied. Designed primarily for speech majors and for those especially interested in radio announcing or acting.

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 French 1a.

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

FRENCH 1d—(3).

Continuation of French 1c.

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

FRENCH 25a-25b (3-3).

Advanced grammar, composition, and conversation. Reading and reports conducted entirely in French.

Prerequisite: French 1d or its equivalent.

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 two years of high school German.

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 three years of high school German.

GERMAN 1d—(3).

Continuation of German 1c. More extensive reading.

Prerequisite: German 1c or four years of high school German.

SPANISH 1a—ELEMENTARY SPANISH (5).

Pronunciation; essentials of grammar; drill on verbs; emphasis on ability to read. Spanish is 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 two years of high school Spanish.

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 1b or three years of high school Spanish.

SPANISH 1d—(3).

Continuation of Spanish 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 four years of high school Spanish.

SPANISH 25a-25b (3-3).

Advanced grammar, composition, and reading.

Prerequisite: Spanish 1d or its equivalent.

SPANISH 51a-51b—CONVERSATIONAL SPANISH (3-3).

A course designed to develop a minimum skill in using the Spanish language for practical, everyday conversational purposes. In the second semester the reading of Spanish newspapers and periodicals supplements the conversational work of the classroom.

Prerequisite: No prerequisite for 51a. Spanish 51a or one year of high school Spanish required for 51b.

SPANISH 53a-53b—SPANISH SHORTHAND AND COMMERCIAL FORMS (3-3).

A course in the writing of Spanish Gregg shorthand plus drill on Spanish commercial letter forms and vocabulary.

Prerequisite: Two years high school Spanish or one year college Spanish *and* ability to take English dictation in Gregg shorthand at a speed of 80 words per minute.

HOME ECONOMICS

HOME ECONOMICS 21—CLOTHING CONSTRUCTION (1). Either Semester.

A course in the making of new garments from old ones

which offers the student an opportunity to conserve materials and be well dressed. The color, style, and design best suited to the individual will be carefully studied.

Prerequisite: One year high school sewing or its equivalent.

ART 20—COSTUME DESIGN (2).

See Art.

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: One and one half years of high school algebra and plane geometry.

MATHEMATICS E—SOLID GEOMETRY (2).

A study of points and lines in space and the properties of regular solids.

Prerequisite: Plane Geometry.

MATHEMATICS 3a—ANALYTIC GEOMETRY (3).

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

Prerequisites: Two years 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.

Prerequisite: Mathematics 3a.

MATHEMATICS 2—MATHEMATICS OF FINANCE (3).

A study of graphs, logarithms, statistics, interest, annuities, life insurance, amortization, sinking funds, valuation of bonds, and depreciation.

A required course in the College of Commerce at the University of California.

Prerequisite: Two years of high school algebra or Mathematics 1.

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 4b—THE CALCULUS CONTINUED (3).

A review of space geometry; partial differentiation, multiple integrals and their applications; infinite series.

Prerequisite: Mathematics 4a.

MATHEMATICS 8—COLLEGE ALGEBRA (3).

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

Prerequisites: One and one half 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.

MATHEMATICS 20—(2).

Introduction to engineering mathematics.

See Engineering

ELEMENTARY ALGEBRA — FIRST SEMESTER — No college credit.

An intensive one-semester course in elementary algebra covering fundamental operations, linear equations, factoring, graphing, exponents and radicals. This course is given for students who are deficient in high school algebra.

Prerequisite: None.

PLANE GEOMETRY—SECOND SEMESTER—No college credit.

An intensive course in the elements of plane geometry covering rectilinear figures, the circle, similar figures, ratio and proportion, and areas of plane figures. This course is given for students who are deficient in high school geometry.

Prerequisite: Elementary Algebra.

MECHANICS

MECHANICS 55a-55b—BUILDING TRADES PROGRAM (16-16).

A pre-apprentice training curriculum set up as an integral unit of the regular two-year junior college program. Manipulative instruction in carpentry, wiring, plastering, painting, plumbing, and concrete under the supervision of local master craftsmen is given to approved students. Manipulative training is given each school year on one major project, such as a residence.

Trade technical class instruction is given in fundamental and advanced construction procedures, in blue-print reading, in estimating and contracting procedure, and in structural stresses and strains including simple truss designs. Trade related subjects including drafting, mathematics, English, accounting, business law, typewriting, job ethics, economics, political science, physical education, hygiene, etc. are required as part of the training.

MECHANICS 60a-60b—ELEMENTARY WELDING (3-3).

Through lecture, demonstration, and practice, the student acquires a knowledge of metals and types of construction essential to metallurgy, welding, and welding procedures; and develops ability to test welds and recognize defects.

MECHANICS 61a-61b—ADVANCED WELDING (3-3).

Through projects the student develops the ability to recognize different metals and to select the correct welding procedure for each metal; to set up and operate all kinds of welding equipment; to secure perfect fusion and penetration; to test welds and to recognize defects. The study of the theory of metallurgy and welding procedures is continued.

MECHANICS 62a-62b—ELEMENTARY SHEET METAL (3-3).

An introductory course in pattern drawing, and layout work. Elementary construction of units required in heating and ventilating.

MECHANICS 63a-63b—ADVANCED SHEET METAL (3-3).

A study of the theory and practice in sheet metal pattern development; forming rectangular, circular, and conical objects; use of all bench and floor machines; raising and stretching metals; fabrication of jobs; methods used in handling alloyed copper, aluminum and stainless steel sheets; planning and estimating.

This work is essential in the two-year vocational course preparing for direct entrance into industry.

Prerequisite: Mechanics 52a-52b.

MECHANICS 64a-64b—ELEMENTARY MECHANICS (3-3).

This course includes the simple operations performed by the general mechanic: bench work, methods of laying out or drawing on metal, simple cylinder turning and screw cutting, drilling, planing, and taper work.

MECHANICS 65a-65b—ADVANCED MECHANICS (3-3).

This course develops skill in students who have already had basic training in machine tool operation, pattern making layout, molding and casting.

Prerequisite: Mechanics 54a-54b or two years of high school machine shop.

MILITARY

MILITARY 50a-50b (1-1).

Fundamentals of basic military training, drill, and calisthenics, open to all male students who have not been exempted from physical education upon doctor's recommendations.

Two one-hour drills per week. A uniform, costing approximately six dollars, will be required.

MILITARY 51a-51b (2-2).

Emphasis placed on leadership in military drill, calisthenics, and map reading, continuation of fundamental posi-

tions and movements. Two one-hour drills per week and one conference.

Prerequisite: Military 50a-50b or its equivalent.

MUSIC

MUSIC 1a-1b—MIXED CHORUS (1).

Chorus in a capella 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 capella groups as well as accompanied music.

MUSIC 4a-4b—MUSICIANSHIP (3-3).

Notation, terminology, melodic and harmonic dictation, music reading, intervals, inversions, and simple writing.

Required for music minor or major at the University of California and state colleges.

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 10—MUSIC APPRECIATION (2). Either Semester.

A course designed to broaden the student's acquaintance with good music and to develop active discriminative listening. Class discussion of music heard over the radio, in recordings, in concert, and in motion pictures. Brief survey of the historical development of music with particular stress upon romantic, modern, and contemporary music. Development of the symphony orchestra and the opera will be considered.

MUSIC 50a-50b—ELEMENTARY ORCHESTRA (1 or 2 a semester).

A course for beginners in all instruments.

MUSIC 51a-51b—ADVANCED ORCHESTRA (1 or 2 a semester).

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

Music 19a-b 55 piano ensemble
Music 3a-b-c - Applied Music -
String, Brass, Woodwind

MUSIC 52a-52b—ELEMENTARY BAND (1 or 2 a semester).

A course for beginners in all instruments excepting strings.

MUSIC 53a-53b—ADVANCED BAND (1 or 2 a semester).

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

UNITED STATES NAVAL RESERVE—CLASS V-1

(Subject to change by United States Navy.)

The Navy Recruiting Service will enlist as Apprentice Seamen, Class V-1 USNR, college students of Freshman and Sophomore standing. Men enlisted will be allowed to continue in college on inactive duty until completion of their Sophomore year.

1. At that time those men who request flight training in Class V-5 and who are found in all respects qualified will be transferred to flight training leading to appointment as Ensign, A-V (N), USNR.

2. Those men who request officer training in Class V-7 and who are found in all respects qualified will be transferred to Class V-7, and will be permitted to continue in college to obtain their Bachelor's degree. After receiving their degree, they will be ordered to an indoctrination center preparatory to an appointment as a Midshipman.

3. Any student in V-1 who fails to remain in college or fails to pass the examination will be permitted to go to one of the Navy's flight training centers providing he can pass both the physical and mental examinations for prospective officers.

Requirements for Enlistment:

1. Male citizens of the United States between the ages of 17 and 19 years inclusive, with the proviso that applicants may have reached their 20th birthday within 60 days of completion of their Sophomore year.

2. Meet physical requirements for enlistment in the U. S. Naval Reserve.

3. Be of good repute in their community.

Educational Qualifications:

1. Be regularly enrolled in an accredited university or college pursuing a course leading to a baccalaureate degree.

2. Applicants who expect to transfer to Class V-7 must be pursuing a course leading to any one of the following degrees: Bachelor of Arts, Bachelor of Science, Bachelor of Education, Bachelor of Philosophy, Bachelor of Business Administration, Bachelor of Commercial Science, Bachelor of Journalism, or any Engineering degree. They must also have completed two one-semester courses of mathematics of college grade, or agree to register for such courses to be completed prior to completion of the work required for a baccalaureate degree. In addition, a course in trigonometry must have been taken in an accredited school or college.

During the second semester of the Sophomore year, the Navy will give a comprehensive examination to all men enlisted in this program. On the basis of this examination and fulfillment of above-mentioned requirements and the physical fitness of the individual, assignments to Class V-5 and Class V-7 will be made.

For further information inquire at the Dean of Men's Office.

U. S. NAVAL RESERVE CLASS V-1.

First Year

First Semester		Second Semester	
Physical Education	1	Physical Education	1
English 1a	3	English 1b	3
Mathematics 1	3	Mathematics 8	3
Map Reading 20	2	Blueprint Reading 1	3
Hygiene	2	Political Science 5	2
Electives	5	Electives	5
	<u>16</u>		<u>17</u>

Second Year

First Semester		Second Semester	
Mathematics C	3	History 8b	3
History 8a	3	Physics 1b or 2b	3
Physics 1a or 2a	3	Physical Education	1
Physical Education	1	Speech	3
Speech	3	Electives	6
Electives	4		<u>16</u>
	<u>17</u>		

The electives should be chosen in accordance with the lower division requirements of the University of California or any other approved college or university leading to baccalaureate degree.

PHILOSOPHY

PHILOSOPHY 6a-6b—INTRODUCTION TO PHILOSOPHY (3-3).

A course in philosophy arranged by types or typical world views. It attacks the fundamental problems of living for their own sakes by acquainting the student with representative thinkers and major philosophical systems and aims to make the subject as practical as possible. It plunges directly into the questions to which every thinking person desires to find the answers, helping him to clarify and classify his own thinking but leaving him free to make his own choices and decisions.

PHILOSOPHY 10a-10b—HISTORY OF PHILOSOPHY (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.

PHYSICAL EDUCATION

A wide range of activities adapted to the various needs, interests, and capacities of the students is offered. Four units of physical education activities are required for graduation, exclusive of Physical Education 40 and Physical Education 49. Not more than one unit in activities may be earned in any one semester. All regular students are required to participate in the physical education classes for at least one period daily each week. In general, this shall include four periods per week in a recreational activity class and body mechanics, and one period

per week in the intra-mural program. In certain cases this requirement can be satisfied by a special assignment.

Students majoring in Health and Physical Education or Recreation are encouraged to study carefully the course requirements in the college or university to which they expect to transfer in order that they may complete the proper lower division requirements in the junior college.

PHYSICAL EDUCATION 30a, 30b, 30c, 30d—GENERAL ACTIVITY (1).

A two-year sequence course including fundamental skills in recreational activities and body mechanics. Participants in the general program are expected to work toward demonstrating specific skills in at least three of the recreational activities listed below and to pass specific performance tests in the work in body mechanics. The recreational activities offered are:

1. Raquet (Men and Women): tennis, badminton, paddle tennis.
2. Implement (Men and Women): fencing, golf, archery.
3. Dance (Men and Women): ballroom, folk, modern.
4. Mat (Men only): boxing, wrestling, tumbling.
5. Group (Men and Women): basketball, hockey, volleyball, baseball.
6. Swimming (Men and Women): elementary, intermediate, advanced.

The body mechanics offered in conjunction with the recreational activities include a variety of activities which are chosen because of their particular contribution toward the more complete development of physical fitness for all students. The specific activities in this are:

Men: tumbling, decathlon, boxing, exercises, etc.

Women: hockey, body mechanics, exercises, relays, etc.

PHYSICAL EDUCATION 31—COMPETITIVE PROGRAM (1).

Team: For students who excel in athletic ability and wish to participate in the inter-collegiate program competing against other junior colleges within the Central California

Conference. These students participating in this program are also expected to work toward demonstrating minimum ability in at least one activity in any one of the six recreational groups which is not a duplicate of their team activities. Students planning to enter this program are advised to plan their regular schedules so as to be available for a minimum of ten hours per week during the season of each competitive sport entered.

Basketball, football, tennis, and track.

PHYSICAL EDUCATION 32—INTRA-MURAL PROGRAM (MEN AND WOMEN).

The intra-mural program is organized for complete student body participation, and will include teams in baseball, hockey, badminton, volleyball, etc.

PHYSICAL EDUCATION 33—V-1 NAVAL PROGRAM (1).

This course is offered by special assignment to all students in the V-1 navy classification.

PHYSICAL EDUCATION 40—HYGIENE (2).

Either Semester.

Section I—Women

Section II—Men.

A consideration of the physical and mental well-being of the individual. A study is made of the major problems of health as they affect the student—colds, fatigue, diet, communicable diseases, emotions, and mental habits.

PHYSICAL EDUCATION 49—FIRST AID (1).

A course covering the principles of emergency treatment for accidents and illness following the prescribed Red Cross course. Successful completion leads to Red Cross Standard and Advanced First Aid Certificates.

PSYCHOLOGY

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

A study of the total activities of the individual. Special emphasis 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, glimpses of psychology in several fields plus an introduction to the psychology of abnormal people.

PSYCHOLOGY 51—PRACTICAL PSYCHOLOGY (3).

Either Semester.

A practical course in psychology designed primarily for students taking the two-year completion curriculum. Factors of human behavior, individual differences, intelligence, heredity and environment, and personality traits are considered.

SCIENCE

ANATOMY 1a—(4).

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 60—(5).

Spring Semester.

A course designed to give the pre-nursing student an understanding of the principles of bacteriology, including disinfection, immunity, and the specific agents of disease.

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

BIOLOGY 1a-1b—GENERAL BIOLOGY (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, eugenics is emphasized.

Prerequisite: None. High school chemistry or high school physics recommended.

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.

CHEMISTRY 53a-53b—ELEMENTARY CHEMISTRY (4-4).

Fundamentals of chemistry. Rate of progress in the course will insure time for full development of those principles which were not fully mastered in high school chemistry, or for those students having no previous chemistry.

Prerequisite: Ordinary ability in arithmetic.

CHEMISTRY 60—(5). Fall Semester.

A course in general chemistry designed to emphasize the applications of chemistry to the work of the nurse, offered primarily for those who have not had high school chemistry.

GEOLOGY 1a—PHYSICAL GEOLOGY (4).

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

Prerequisite: None. Chemistry recommended.

GEOLOGY 1b—HISTORICAL GEOLOGY (4).

Study of origin of the earth and other members of our planetary system from the beginning of geologic time to the present; study of geological maps; field trips.

Prerequisite: Geology 1a; biology recommended.

NUTRITION AND FOODS 1a-1b.

A course planned to meet the laboratory nutrition courses for nurses. Includes a study of the composition and function of foods, and the food requirements of the normal infant and adult, the principles of gaining and reducing diets, and laboratory work in cookery and planning and computing diets.

PHYSICS 1a-1b—GENERAL PHYSICS (3-3).

Fundamental treatment of the general principles of physics, including mechanics, heat, hydraulics, hydrostatics, and prop-

erties of matter.

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

PHYSICS 1c—GENERAL PHYSICS (3).

A study of the fundamentals of electricity and magnetism. Two hours lecture, three hours laboratory. This course parallels the course 1c at the University of California.

Prerequisites: Physics 1a-1b.

PHYSICS 1d—GENERAL PHYSICS (3).

A course covering the fundamentals of wave motion, sound, and light. Two hours of lecture and three hours laboratory. This course parallels the course 1d at the University of California.

Prerequisite: Physics 1c.

PHYSICS 2a-2b—GENERAL PHYSICS (3-3).

A survey course in physics covering properties of matter, mechanics, heat, sound, light, electricity, and magnetism. Three lectures a week with demonstrations. Required for pre-medical students. May be taken by other students as an elective to satisfy science requirements.

PHYSICS 3a-3b — GENERAL PHYSICS LABORATORY (1-1).

One three-hour laboratory a week in which the student works out experiments dealing with the phases of physics covered in courses 2a-2b. Should be taken concurrently with courses 2a-2b.

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

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 func-

tions. 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 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 5—(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—PRINCIPLES of ECONOMICS (3-3).

Introduction to the fundamental principles of economics; economic theories and historic background; principles of production, distribution, and exchange of wealth; modern social problems.

ECONOMICS 52—TRADE ECONOMICS (2).

This course approaches the study of economics from the view of the needs of the skilled workman in the field. Primary emphasis is given to the principles and problems in economics which most seriously concern the craftsman. In addition, an attempt is made to indicate the relations of labor to the other factors in production and the cooperative character of economics.

GEOGRAPHY 1a-1b—GENERAL GEOGRAPHY (3-3).

A study of the interrelation between man and his natural environment with emphasis on discovering the potentialities of various regions for human habitation. The first semester concentrates on the elements of geography such as climate, land forms, soils, map interpretation, etc. The second semester is concerned with the regional distribution of environmental features in patterns on the earth's surface.

GEOGRAPHY 5a-5b—ECONOMIC GEOGRAPHY (3-3).

A study of man's use of the natural resources of the earth. The first semester is concerned specifically with man's agricultural, fishing, and hunting occupation. The second semester investigates man's mining, manufacturing, trade and transportational, recreational, and residential occupation.

MAP READING 20—MAP INTERPRETATION AND MAP STUDY (2)—First Semester.

A consideration of cartographic projections, types of maps, scales, true and magnetic north, directions or bearings, relief, contours, conventional signs or standard symbols, slope profile, visibility, coordinates, and map sketching methods.

Especial emphasis will be placed on the U. S. G. S. type of contour map, and the military grid system map.

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.

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. A required course for history majors.

HISTORY 51—CURRENT AFFAIRS (3). Either Semester.

A course designed to acquaint the students with the major movements of the 20th century and stimulate interest in current affairs. The class will be conducted informally without a textbook. Discussions will be based on newspapers, broadcasts, and periodicals.

CALIFORNIA LAW (2). Either Semester.

The course deals with the law of California in terms of practical, everyday situations.

Public and private wrongs and their treatment, property rights of spouses, protection of creditors, cashing of checks, risks of using deeds for wills, work of the courts, and self-help are some of the matters treated.

AMERICA AT WAR (1)—Either Semester.

A course designed to further knowledge of the backgrounds of the present war and its already apparent effects upon American life. Different members of the faculty will discuss aspects of the war from a standpoint of specialized knowledge in their own fields such as history, economics, geography, psychology, and the press.

No outside preparation will be required. One unit of credit will be given on the basis of class attendance.