

# **VISALIA COLLEGE**

**BULLETIN 1948-1949**

Published by

**BOARD OF TRUSTEES**

Visalia Union High School and Junior College District

**VISALIA, CALIFORNIA**

May, 1948

## TABLE OF CONTENTS

|                                    | Page |
|------------------------------------|------|
| College Calender for 1948-1949     | 4    |
| Board of Trustees                  | 5    |
| Officers of Administration         | 5    |
| Faculty                            | 5    |
| General Information                | 7    |
| Organization and Administration    | 7    |
| Curricula                          | 8    |
| Student Organizations              | 9    |
| Student Activities                 | 10   |
| Veterans' Education                | 11   |
| Veterans' Guidance Center          | 11   |
| Expenses                           | 11   |
| Student Health Service             | 11   |
| Living Accomodations               | 11   |
| Employment                         | 12   |
| Library                            | 12   |
| Loans, Scholarships, and Awards    | 12   |
| Scholarship Honors                 | 13   |
| General Regulations                | 13   |
| Admission                          | 13   |
| Matriculation Deficiencies         | 13   |
| Registration                       | 14   |
| Amount of Work                     | 14   |
| Placement Tests                    | 15   |
| Physical Education Requirements    | 15   |
| Conduct                            | 15   |
| Attendance                         | 15   |
| Leave of Absence                   | 16   |
| Withdrawals from Course or College | 16   |
| Units and Grade Points             | 16   |
| Grades                             | 17   |
| Requirements for Graduation        | 17   |
| Plan One                           | 17   |
| Plan Two                           | 18   |

|   |    |
|---|----|
| Lower Division Requirements in California   |    |
| Colleges and Universities   | 19 |
| University of California (Berkeley and<br>Los Angeles)  | 20 |
| Stanford University   | 21 |
| University of Southern California   | 23 |
| California State Colleges, (Fresno, San Jose,<br>Chico, San Diego, San Francisco and<br>Humboldt) | 24 |
| Agriculture   | 25 |
| Building Trades   | 26 |
| Commerce  | 27 |
| Commercial Curricula  | 29 |
| Denistry, Medicine and Pharmacy   | 30 |
| Nurses Training   | 32 |
| Pre-Nursing Curricula   | 33 |
| Police Training   | 35 |
| Description of Courses  | 37 |
| Agriculture   | 37 |
| Art   | 39 |
| Commerce  | 40 |
| Engineering   | 45 |
| English   | 47 |
| Speech Arts   | 49 |
| Foreign Languages   | 51 |
| Home Economics  | 52 |
| Hygiene   | 54 |
| Library Science   | 55 |
| Mathematics   | 55 |
| Music   | 57 |
| Philosophy  | 59 |
| Photography   | 60 |
| Physical Education  | 60 |
| Police Training   | 61 |
| Psychology  | 63 |
| Science   | 64 |
| Social Science  | 71 |
| Trades and Industries   | 73 |

# Calender 1948-1949

## First Semester

September 13, 1948 - January 28, 1949

|                       |         |   |
|-----------------------|---------|---|
| September 7           | - - - - | Placement tests                             |
| September 7-11        | -       | Student conferences with college counselors |
| September 9           | - -     | General faculty meeting                     |
| September 13          | -       | Registration - all new students             |
| September 14          | -       | Registration - all former students          |
| September 15          | - -     | Class instruction begins                    |
| October 18-19         | - -     | Teachers' Institute                         |
| October 22            | -       | Last day to drop subjects without penalty   |
| November 11           | - -     | Armistice Day                               |
| November 25-26        | - -     | Thanksgiving holiday                        |
| December 20-January 3 | -       | Christmas holiday                           |
| January 24-January 27 | -       | Semester examinations                       |
| January 28            | - -     | End of autumn semester                      |

## Second Semester

January 31, 1949 - June 10, 1949

|                |         |   |
|----------------|---------|---|
| January 22     | - - - - | Placement tests                           |
| January 28-29  | - -     | Counseling of new students                |
| January 31     | - -     | Registration of all students              |
| February 1     | - -     | Class instruction begins                  |
| February 22    | - -     | Washington's Birthday                     |
| March 11       | -       | Last day to drop subjects without penalty |
| April 11-15    | - - - - | Easter vacation                           |
| May 30         | - - - - | Memorial Day                              |
| June 6-June 10 | - -     | Semester examinations                     |
| June 10        | - - - - | End of spring semester                    |
| June 12        | - - - - | Commencement                              |

## BOARD OF TRUSTEES

W. A. West, President

Hugh A. McKellar

Emmett W. Paregien

Joe F. Link

Charles L. Hamilton

## ADMINISTRATION

HILTON D. BELL, M. A., Superintendent

L. J. WILLIAMS, M. S., President

ETHEL WALLACE BRYANT, A. B.

Dean of Women

WILLIAM T. HALSTEAD, M. A.,

Dean of Men

## FACULTY

|                              |         |                      |
|------------------------------|---------|----------------------|
| A. E. Bryant, M. A.          | - - - - | Science              |
| Ethel Wallace Bryant, A. B.  | - - - - | English              |
| George Burris, B. M.         | - - - - | Music                |
| Vera Charpentier, M. A.      | - - - - | French               |
| William R. Cleveland, M. S.  | - - - - | Science              |
| Maurice Corbett, A. B.       | - - - - | Speech, Drama        |
| Paul M. Cradler, A. B.       | - - - - | Engineering Drafting |
| William E. Cunningham, A. M. | - - - - | Science, Photography |
| Harold L. Fischer, M. A.     | - - - - | Social Science       |
| Joseph A. Guarisco           | - - - - | Building Trades      |
| Helen S. Halstead, A. B.     | - - - - | Mathematics          |
| William T. Halstead, M. A.   | - - - - | Social Science       |
| John S. Hansen, M. A.        | - - - - | Journalism, Speech   |
| Edward E. Hayden             | - - - - | Mechanics            |

|                               |   |   |                          |
|-------------------------------|---|---|--------------------------|
| Norma Laurel Tomkinson, R. N. | - | - | Nurse                    |
| J. Randolph Hutchins, M. A.   | - | - | Spanish                  |
| Faye S. Jasmann, M. S.        | - |   | Physical Education       |
| Bruce F. Jensen, B. S.        | - | - | Agriculture              |
| Erwin Jost, A. B.             | - | - | German, English          |
| Fred V. Knight, B. S.         | - | - | Agriculture              |
| Natalie Lapike, A. B.         | - | - | Librarian                |
| William C. McKinney, A. B.    | - |   | Social Science           |
| Karl W. Mitchell, A. B.       | - | - | Commerce                 |
| Thomas Murray Ph. D.          | - | - | English                  |
| Dorothy Myers, B. B. A.       | - | - | Commerce                 |
| Bernard C. Nygren, A. B.      | - |   | Physical Education       |
| Donald C. Raney, M. A.        | - | - | Science                  |
| Howard L. Raphael, A. B.      | - |   | Mathematics, Science     |
| William L. Reid, A. B.        | - | - | Science                  |
| Alice G. Rouleau, M. A.       | - | - | Art                      |
| Jesse B. Smith, A. B.         | - | - | English, Russian         |
| Robert Stevenson, L. L. B.    | - |   | Commercial Law           |
| Elizabeth M. Stewart, M. A.   | - | - | Counselor                |
| Spencer R. Strader, B. S.     | - | - | Agriculture              |
| Frank E. Tweed, A. B.         | - | - | Music                    |
| Sue E. Weston, A. B.          | - | - | Home Economics           |
| P. F. Wilhelmson, A. B.       | - |   | Physical Education       |
| C. Wesley York, A. B.         | - |   | Engineering, Mathematics |
| To be appointed               | - | - | English                  |
| To be appointed               | - | - | Commerce                 |
| To be appointed               | - | - | Psychology               |
| To be appointed               | - | - | Police Training          |
| To be appointed               | - | - | Counselor                |

## General Information

Visalia College was established by the Visalia Union High School Board of Trustees as Visalia Junior College in 1925, and offered the first post-high school instruction to students of this area in September, 1926. College classes were housed in the Visalia Union High School plant until September, 1940. At that time the college moved to its own fifty acre campus southwest of Visalia where fine new buildings had been completed. Remodeled buildings from Minter Field provide a cafeteria, student union, guidance center, and classrooms.

Visalia College serves an area of more than three thousand square miles in the heart of the San Joaquin Valley. Its offerings include an educational program for students who plan to continue their education at a university or who desire further general education, as well as terminal courses for specific occupations. The college provides counseling service for all students with special emphasis on vocational problems.

Future plans call for expansion in the vocational fields which include practical agriculture on the school farm, vocational homemaking, classes in the building trades, peace officer training courses, business education courses, and numerous short term courses for those needing "refresher" work before entering an occupation. A cooperative work experience program, made possible by the cooperative planning of school and community leaders, will be offered to further the practical side of the training program.

Visalia College with its strategic location, its fine building and facilities, together with a well qualified staff, is in an enviable position to answer the educational challenge to serve properly the youth of this area. Constructive suggestions from students and patrons are constantly invited.

## CURRICULA

Junior college students may be classified into two major 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 college provides the services of trained vocational and personal counselors.

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 50 to 100, are offered for students who plan to complete only a two-year program of work. 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.

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 stand-



ing 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.

## STUDENT ORGANIZATIONS

The Associated Students of Visalia College is the official student organization. Upon payment of activity fee at 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 Students, Associated Men Students, San-Soucis (French Club), German Club, Spanish Club, Student Christian Association, Newman Club, Varsity Club, Commerce Club, Radio Club, Photography Club, Pre-Nurses Club, International Relations Club, Home Economics Club, Chess Club, Peds (Women Physical Education majors), Creme o' Tartars (Sophomore Women's Club), Tartar Twirlers (Square Dance Club), Teachers Vocational Interest Club, Allied Art Club, Beta Phi Gamma (honorary journalistic fraternity), Delta Psi Omega (national honorary dramatics fraternity), and Alpha Gamma Sigma Scholarship Honor Society.

## STUDENT ACTIVITIES

Student activities of Visalia 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 extra-curricular student group.

**Athletics:** Visalia 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 new Experimental Theatre offers the students interested in dramatics an excellent opportunity to participate in the various plays presented before student assemblies and for the public throughout the year. Outstanding three-act and one-act plays are selected for presentation. The dramatics class also sponsors an annual one-act play tournament for the high schools of this area.

**Publications:** The college sends out a weekly news letter to approximately fifty newspapers in this area and sponsors a weekly newspaper, The Campus, an annual, The Tartar, and Tartarean Tales, literary magazine. In addition, the Speech Department, through the class in radio, sponsors a daily campus broadcast of Visalia College news and interesting news from other colleges.

**Social Affairs:** Student body social affairs, under the direction of the social committee, consist of dances, parties, barbecue suppers, picnics and luncheon meetings.

**Music:** Glee Club, Mixed Chorus, Quartettes, Trios, Soloists, Band, and Orchestra furnish music for assemblies and special occasions.

## **VETERANS' EDUCATION**

The Veterans Administration has approved Visalia College as "an educational training facility" for veterans. Those veterans who are eligible to obtain free education under the G. I. Bill of Rights (Public Law 346) or under Vocational Rehabilitation (Public Law 16) should consult with the Dean of Men regarding procedures.

## **EXPENSES**

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

There are no laboratory, gymnasium, library, locker, or shop fees.

Text books and stationery will cost approximately twenty dollars a semester. New and used text books and essential stationery supplies may be purchased on the campus at the Associated Students' Store.

## **STUDENT HEALTH SERVICE**

A public health nurse holds office hours every afternoon in the gymnasium. Students desiring advice on health problems are free to consult her whenever they desire. The students are urged to make use of this service.

First aid is available at all times.

## **LIVING ACCOMODATIONS**

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 excepting in the case of married students, is not encouraged by the college.

A veterans' housing project has been set up on the campus. Here married veterans or small groups of single veterans can be accommodated. Applications for this housing should be made directly to Mr. Hilton Bell, Superintendent of Schools.

## EMPLOYMENT

Part-time employment and work for room and board in private families are available for men and women. Students interested in such opportunities should consult the Dean of Women or Dean of Men.

## 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 curricula and recreational reading needs. Adequate financial support insures rapid growth and the maintenance of high 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, SCHOLARSHIPS, AND AWARDS

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

A substantial sum has 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 College or two years' work if this college offers a satisfactory two-year curriculum for the student's major.

This fund was augmented in 1947 by a bequest of one thousand dollars from the late Mrs. W. R. Spalding of Visalia.

Application for such 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.

Sequoia Branch of the American Association of University Women presents an annual scholarship award to a graduating woman student for the continuation of her education at a college or university.

### **SCHOLARSHIP HONORS**

At the end of each semester, grade point averages are computed to determine the students with thirty or more grade points. This scholastic record entitles the student to temporary membership in Alpha Gamma Sigma, California Junior College Honor Society. If he attains this distinction three out of four semesters, he becomes a permanent member and is presented with a pin, a certificate, and may be graduated with honors.

### **GENERAL REGULATIONS**

#### **Admission**

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

Applicants for admission should secure application blanks from the office of the registrar. Transcripts of high school records should be on file in this office sufficiently early to be evaluated by registration day.

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 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.

Junior college subjects that may be used to remove high school 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 courses, intensive one-semester courses in both first-year algebra and plane geometry which carry no transfer credit.

Repetition of a college course for the purpose of removing a grade deficiency is permissible only in a case where the student has received a grade below "C".

### **Registration**

One day at the beginning of each semester is set aside for registration. Students are urged to register at this time, 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.

It is essential that a transcript of the student's high school record be on file in the office of the Registrar before registration day.

### **Amount of Work**

The normal requirement for a college schedule comprises sixteen units of work. No student will be granted credit in excess of seventeen and a half 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 May, September and February of each year in English, Gregg shorthand and typewriting.

For those who wish to take courses in English or speech, the English test is given to determine the placement of the student in the various English courses. A "C" grade in the test is required for admission to the basic courses, such as English 1a, English 10a, Speech 1a and Commerce 60b.

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

### **Physical Education Requirements**

All regular students and all special students carrying over eight units of work are required by an act of the state legislature to enroll in the regularly prescribed courses in physical education 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 pre-suppose 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 the 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 request for a leave of absence 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 each 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. After this period 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.

At this time he will receive "W" in the course if his work is satisfactory, "F" if his work is unsatisfactory.

### **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.

High school courses for which credit was received in high school may be repeated as remedial work in college for improvement in grade, but no college credit



will be granted for such work.

For purposes of graduation or transfer to other collegiate institutions, it is necessary for the student to obtain the same number of grade points as units for all work accomplished, which is the equivalent of a "C" average.

Grade points will be awarded as follows: Grade A, three points per unit; B, two; C, one; D, one.

### **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 College should follow one of the two plans outlined below. The degree of Associate in Arts is conferred upon graduates of Visalia College who complete either plan. 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 course of 64 semester units including:

1. Two units in physical education.

2. Two units in hygiene.
3. Four units in history of the United States, including the study of American institutions and ideals.
4. Any six units of English or speech or any combination. An exception to this is made for students majoring in Building Trades where a 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.

This latter requirement 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. Foreign Language                                       |
| GROUP | VI. Pre-Nursing   |
| GROUP | VII. Mechanics  |
| GROUP | VIII. Commerce  |
| GROUP | IX. Drafting and Mathematics or<br>Drafting and Mechanics |
| GROUP | X. Building Trades  |
| GROUP | XI. Police Training                                       |
| GROUP | XII. Agriculture  |
| GROUP | XIII. Home Economics                                      |

## PLAN TWO

The degree of Associate in Arts is conferred under Plan Two on those students who expect to 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 course of 64 semester-units, including:

1. Two units in physical education
2. Two units in hygiene

3. Four units in the history of the United States including a study of American institutions and ideals..
4. Six units in English - except for engineering majors transferring to the University of California or other institutions requiring only three units of English in lower division.
5. The completion of the lower division requirements and major requirements of the University of California or of any other college or university where upper division work will be continued.

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

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

### **LOWER DIVISION REQUIREMENTS 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 University 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 major 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 catalog 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 "C" average, and the fulfillment of the following general and specific requirements:

A. General University Requirements.

Subject A or its equivalent

Hygiene, two units

Physical Education—Los Angeles

B. Foreign Languages.

At least 16 units in not more than two languages, with not less than 4 units in any one language. The first two years of high school work in a foreign language will be counted in satisfaction of 4 units of this requirement and each year thereafter as 4 units.

C. Mathematics.

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

D. Natural Science.

At least twelve units chosen from the follow-

ing list:

High school physics\*, 3 units (1 high school credit).

High school chemistry\*, 3 units (1 high school credit).

Bacteriology 1\*

Chemistry 1a\*-1b\*, 8

Geology 1a-1b

Geography 1

Physics 1a\*-1b\*, 1c\*, 1d\*, 2a-2b, 3a\*-3b\*

Physiology 1a, 1c\*

Zoology 1a\*, 1b\*, 10

Botany 1a\*-1b\*, 12

Paleontology 1

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.

E. Additional—A sequence (of 5 or 6 units) in subjects of college level, in each of four of the following six groups, one of which may be postponed to the upper division;

1. English 1a-1b, Speech 1a-1b.
2. Foreign Language (additional to B.) This may be satisfied by two years of high school work, provided the language be Latin.
3. Mathematics. Any two of the following courses: Mathematics C or high school trigonometry, 2, 3a, 3b.
4. Social Sciences: History 4a-4b, History 8a-8b. Economics 1a-1b, Geography 1a-1b (if not included in requirement D), Political Science 1a-1b, Psychology 1a-1b.
5. Philosophy 6a-6b, Philosophy 10a-10b.
6. Fine Arts. English 5a-5b.

### Stanford University

The work of the lower division at Stanford University is divided into three groups of studies. All students are required to take at least ten semester units

(fifteen quarter units) in each of these three groups during the first two college years.

Group I Arts and Letters :

- (a) The completion in the lower division of a second year reading course of a foreign language, or of a more advanced foreign language course.
- (b) Subject A or its equivalent
- (c) English 1a-1b
- (d) Electives to make up a total of ten units in this group if the above requirements have not totaled that number.

Group II Natural Science; Mathematics :

- (a) A year course in a laboratory science during the first year.
  - 1. Biological science for those who have completed a year of high school physics or chemistry only.
  - 2. Physics or chemistry for those who have completed a high school year of biological science only.
  - 3. Biological science and physics or chemistry for those who have completed neither in high school.
- (b) Electives to make up a total of ten units in this group.

Group III Social Science :

- (a) First year: Twelve quarter units in History of Western Civilization.
- (b) Second year: Nine quarter units in sociology, economics, political science, history, psychology, philosophy, or combination of these.

The maximum allowance for work in junior colleges is two years of university credit (sixty semester units or ninety quarter units), exclusive of physical education. Although credit is not given for physical education at Stanford University, it is required during the first two years.

## University of Southern California

The first two years in the College of Letters, Arts and Sciences are devoted to general education and certain lower division subjects required of all students who are candidates for the bachelor's degree. In general, these requirements are as follows:

- A. English, 6 units.
- B. Art Appreciation or Music Appreciation, 2 units.
- C. Foreign Languages, 12 units.

Twelve units in a single language. Each year of high school work in the language offered may count as the equivalent of three units toward the fulfillment of this requirement provided all work in the language is taken in proper sequence. No high school work may count, however, toward the total units required for graduation.

General Studies, 13 units

- 1. Man and Civilization, 6 units. (History 4a-4b)
- 2. American Civilization and Institutions, 4 units. (History 1a-1b)
- 3. Three units to be selected from:
  - a. Problems of Human Behavior, 3 units
  - b. Problems of Human Values, 3 unitsStudents who transfer with 60 units of advanced standing may substitute 3 units of psychology for "a" or 3 units of philosophy for "b".
- 4. Literature, 4 units
- 5. Physical Education, 4 units; Health Education, 2 units.
- 6. Science, 11 units.

Courses may be chosen from the following offered at Visalia College: Bacteriology 1; Botany 1a-1b; Chemistry 1a-1b; Geology 1a-1b; Physics 1a-1b, or 2a-2b plus 3a-3b; Zoology 1a-1b.

At least one complete course with laboratory must be passed either in the high school

or college. Each high school unit of physics or chemistry may count as three college semester units toward this requirement, but not toward the total units required for graduation.

### California State Colleges

There are several variations in the lower division requirements in the state colleges. The student should consult the major department requirements in the catalog of the particular college which he intends to enter.

### Fresno State College

The curriculum leading to the A. B. Degree and the General Elementary Credential at Fresno State College includes:

- A. English and Speech, 12 units.  
English A, English 1a, Speech 21 and 6 units of English and Speech electives.
- B. Foreign Language, 6-8 units.  
Two years of one foreign language in high school or one year of a foreign language in college.
- C. Mathematics.  
Elementary algebra and plane geometry. If not completed in high school these courses must be taken in college.  
Mathematics 10, 3 units.
- D. Science, 12 units. 4 units may be postponed to upper division.  
A laboratory science is required. Biology 1b, and a physical science elective.
- E. Social Science, 12 units. 4 units may be postponed to upper division.  
History 4a-4b or History 8a-8b, History 1a-1b, Geography 1a-1b.
- F. Psychology 1a, 3 units.
- G. Music 9a-9b, 5 units.
- H. Art 6a, 2 units.
- I. Physical Education, 5 units.  
Physical Education activities, Hygiene
- J. Electives to make up 64 units.



### San Jose State College

The curriculum leading to the A. B. Degree and the General Elementary Credential at San Jose State college includes:

- A. English and Speech, 12 units
- B. Natural Science, 12 units
- C. Social Science, 12 units
- D. Physical Education, 2 units
- E. General Psychology, 6 units
- F. Music Appreciation, 2 units
- G. Art Appreciation, 2 units
- H. Art (Public School), 4 units

### AGRICULTURE

Instruction is offered to students in three major divisions; plant science, animal science and agricultural mechanics. Courses are designed to fit those students who wish to enter farming or go into jobs requiring practical agricultural training. All courses in this department are of a terminal vocational nature.

A one hundred and sixty acre farm is available for demonstration and laboratory work where units in dairy cattle, beef cattle, sheep, swine, and poultry will be maintained. Along with the animal units will be supporting forage crops including alfalfa, ladino clover, cereal crops, and milo. Field crops, deciduous trees, and vines are also to be grown for laboratory use by the students.

For students desiring to transfer to the University of California at Davis or to California Polytechnic School for degree work in agriculture, the basic science courses may be taken at Visalia College to fulfill requirements and the practical courses in agriculture taken as electives.

The following suggested two-year program will lead to graduation from the terminal course in Agriculture and the Associate in Arts degree:

## Suggested Program in Agriculture

### First Year

| First Semester          | Units                              | Second Semester         | Units                              |
|-------------------------|------------------------------------|-------------------------|------------------------------------|
| English 51 .....        | 3                                  | Speech 51a .....        | 3                                  |
| Chemistry 50 .....      | 3                                  | Mathematics 10 .....    | 3                                  |
| Hygiene 1 .....         | 2                                  | Agriculture 51 .....    | 3                                  |
| Agriculture 56 .....    | 3                                  | Agriculture 70          |                                    |
| Agriculture 60          |                                    | or Agriculture 85 ..... | 4                                  |
| or Botany 50 .....      | 3                                  | Agriculture 62          |                                    |
| Agriculture 76          |                                    | or Agriculture 83 ...   | 2 or 3                             |
| or Agriculture 86       | 2 or 3                             | Agriculture 74a .....   | 1                                  |
| Physical Education .... | $\frac{1}{2}$                      | Physical Education .... | $\frac{1}{2}$                      |
| Total .....             | $16\frac{1}{2}$ or $17\frac{1}{2}$ | Total .....             | $16\frac{1}{2}$ or $17\frac{1}{2}$ |

### Second Year

| First Semester          | Units                             | Second Semester         | Units                             |
|-------------------------|-----------------------------------|-------------------------|-----------------------------------|
| Agriculture 58a .....   | 3                                 | Agriculture 58b .....   | 3                                 |
| Agriculture 64 .....    | 2                                 | Agriculture 74b .....   | 1                                 |
| Agriculture 87 .....    | 3                                 | Agriculture 90 .....    | 3                                 |
| History 1a .....        | 2                                 | History 1b .....        | 2                                 |
| Electives .....         | 5                                 | Electives .....         | 6                                 |
| Physical Education .... | $\frac{1}{2}$                     | Physical Education .... | $\frac{1}{2}$                     |
|                         | <u><math>15\frac{1}{2}</math></u> |                         | <u><math>15\frac{1}{2}</math></u> |

## BUILDING TRADES

A training curriculum in the building trades has been 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 master craftsmen is given to approved students. Manipulative training is given each year on one major project such as a residence.

Trade technical class instruction is given in fundamental and advanced construction procedures, in blueprint 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, job ethics, economics, History 1-a-1b, physical education, hygiene, etc., are required as a part of the

training.

A full year of credit toward the completion of an apprenticeship in the specific trade studied is given by the labor union upon recommendation by the school for the work of a full school year. Extra credit may be obtained for on-the-job experience in summer work if such experience is gained under a licensed contract or in any of the building trades. A prior understanding between the college and employer covering supervision to be furnished by the college is necessary. Maximum credit for this experience will be evaluated on the basis of 520 hours for 15 units.

#### First Year

| First Semester         | Units                             | Second Semester     | Units                             |
|------------------------|-----------------------------------|---------------------|-----------------------------------|
| Building Trades 55a    | 10                                | Building Trades 55b | 10                                |
| Trade Drawing 51a      | 3                                 | Trade Drawing 51b   | 3                                 |
| *English 51, 52, or 1a | 3                                 | Hygiene             | 2                                 |
| Physical Education     | $\frac{1}{2}$                     | Physical Education  | $\frac{1}{2}$                     |
|                        | <u>16<math>\frac{1}{2}</math></u> |                     | <u>15<math>\frac{1}{2}</math></u> |

#### Second Year

| First Semester                | Units                             | Second Semester     | Units                             |
|-------------------------------|-----------------------------------|---------------------|-----------------------------------|
| Building Trades 56a           | 10                                | Building Trades 56b | 10                                |
| History 1a                    | 2                                 | History 1b          | 2                                 |
| **Commerce 63a or<br>Elective | 3                                 | Electives           | 4                                 |
| Physical Education            | $\frac{1}{2}$                     | Physical Education  | $\frac{1}{2}$                     |
|                               | <u>15<math>\frac{1}{2}</math></u> |                     | <u>16<math>\frac{1}{2}</math></u> |

\*The English Course will be determined by the score in the English placement test.

\*\*Electives may be substituted for Commerce 63a if the student has completed a bookkeeping course in high school. Suggested Electives: Mechanics, Architectural Drawing, Trade Drawing, Economics.

### COMMERCE

Instruction is offered to students in two major divisions of business education: Accounting and Stenography. General background courses are strongly recommended as they provide a better understanding of modern business. It is advisable for students to fol-

low as closely as possible suggested courses in these major fields.

All regular students in the Commerce Department are required to take an English or speech course each semester. Commerce 60a and Commerce 60b are acceptable toward this requirement.

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.

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.

### Placement Service

The college maintains placement services for vocational students who are interested in either full-time or part-time employment.

A member of the Commerce Department faculty in charge of placement will assist students in finding business positions suited to their training and abilities. Recommendations for employment are based upon the college and work record of the student, as well as general aptitude for the position.

### Suggested Program in Accounting

#### First Year

| First Semester      | Units | Second Semester     | Units |
|---------------------|-------|---------------------|-------|
| Commerce 63a        |       | Commerce 63b        |       |
| (Accounting) .....  | 3     | (Accounting) .....  | 3     |
| Commerce 53a or 53b |       | Commerce 53b or 54b |       |
| (Typewriting) ..... | 2     | (Typewriting) ..... | 2     |
| Economics 1a .....  | 3     | Economics 1b .....  | 3     |

|                            |                          |     |
|----------------------------|--------------------------|-----|
| Commerce 60a or 60 b ... 3 | English .....            | 3-2 |
| History 1a .....           | History 1b .....         | 2   |
| Physical Education ... ½   | Physical Education ... ½ |     |
| Electives .....            | Electives .....          | 3-4 |
| Total .....                | Total .....              | 15½ |

### Second Year

| First Semester           | Units | Second Semester          | Units |
|--------------------------|-------|--------------------------|-------|
| Commerce 64a             |       | Commerce 64b             |       |
| (Accounting .....        | 3     | (Accounting) .....       | 3     |
| Speech .....             | 3-2   | Speech .....             | 3-2   |
| Commerce 68a             |       | Commerce 68b             |       |
| (Office Machines) ....   | 2     | (Office Machines) ....   | 3     |
| Psychology 51a or 1a ... | 3     | Psychology 51b or 1b ... | 3     |
| Hygiene .....            | 2     | Commerce 71              |       |
| Commerce 79              |       | (Filing) .....           | 1     |
| (Spelling .....          | 1     | Physical Education ....  | ½     |
| Physical Education ....  | ½     | Electives .....          | 3-4   |
| Electives .....          | 2-3   | Total .....              | 15½   |
| Total .....              | 16½   |                          |       |

Students who are preparing to qualify for Certified Public Accountants under the California Accountancy Act should include in their programs:

- Mathematics 2 (Mathematics of Finance)
- Commerce 18 (Commercial Law)

### Suggested Two-Year Program in Stenography

#### First Year

| First Semester          | Units | Second Semester         | Units |
|-------------------------|-------|-------------------------|-------|
| *Commerce—              |       | *Commerce—              |       |
| (Shorthand) .....       | 5     | (Shorthand) .....       | 5     |
| *Commerce—              |       | *Commerce—              |       |
| (Typewriting) .....     | 2     | (Typewriting) .....     | 2     |
| Commerce 75 or          |       | History 1b .....        | 2     |
| Economics 1a .....      | 3     | English .....           | 3-2   |
| English .....           | 3-2   | Hygiene 1 or 2 .....    | 2     |
| Physical Education .... | ½     | Physical Education .... | ½     |
| History 1a .....        | 2     | Electives .....         | 1-2   |
| Electives .....         | 1-2   | Total .....             | 15½   |
| Total .....             | 16½   |                         |       |

|                          |            | <b>Second Year</b>       |            |
|--------------------------|------------|--------------------------|------------|
| First Semester           | Units      | Second Semester          | Units      |
| *Commerce                |            | *Commerce—               |            |
| (Shorthand .....         | 5          | (Shorthand) .....        | 5          |
| Commerce 55a             |            | Commerce 55b—            |            |
| (Transcription) .....    | 2          | (Transcription) .....    | 2          |
| Commerce 60b—            |            | English or Speech .....  | 2-3        |
| (Writing for Business)3  |            | Commerce 78b—            |            |
| Commerce 68a—            |            | (Secretarial Practice) 3 |            |
| (Office Machines) .....  | 2          | Physical Education ..... | ½          |
| Commerce 78a             |            | Electives .....          | 3-2        |
| (Secretarial Practice) 3 |            |                          |            |
| Commerce 71—Filing ... 1 |            |                          |            |
| Physical Education ... ½ |            |                          |            |
| <b>Total .....</b>       | <b>16½</b> | <b>Total .....</b>       | <b>15½</b> |

#### **Suggested One-Year Program in Stenography**

| First Semester           | Units      | Second Semester          | Units      |
|--------------------------|------------|--------------------------|------------|
| *Commerce—               |            | *Commerce—               |            |
| (Shorthand .....         | 5          | (Shorthand) .....        | 5          |
| *Commerce—               |            | *Commerce—               |            |
| (Typewriting) .....      | 2          | (Typewriting) .....      | 2          |
| Commerce 60a, English    |            | Commerce 60b, English,   |            |
| or Speech .....          | 3          | or Speech .....          | 3          |
| Commerce 78a             |            | Commerce 78b—            |            |
| (Secretarial Practice) 3 |            | (Secretarial Practice) 3 |            |
| Commerce 68a             |            | Commerce 68L—            |            |
| (Office Machines) .....  | 2          | (Office Machines) .....  | 2          |
| Physical Education ..... | ½          | Commerce 71—             |            |
| Electives .....          | 1          | (Filing) .....           | 1          |
| <b>Total .....</b>       | <b>16½</b> | Physical Education ..... | ½          |
|                          |            | <b>Total .....</b>       | <b>16½</b> |

\*Specific course to be determined by the score of the student on the shorthand and typewriting placement tests.

#### **Dentistry, Medicine and Pharmacy**

The following curricula lead to junior college graduation under Plan II with Associate in Arts degree and lower division requirements accomplished for

dentistry, medicine and pharmacy.

If the student has not completed his high school prerequisites for these courses as outlined below, extra time in junior college or elsewhere will be required for making up his deficiencies.

## DENTISTRY

### Suggested Program

#### First Year

| First Semester           | Units                             | Second Semester          | Units                             |
|--------------------------|-----------------------------------|--------------------------|-----------------------------------|
| English 1a .....         | 3                                 | English 1b .....         | 3                                 |
| Chemistry 1a .....       | 5                                 | Chemistry 1b .....       | 5                                 |
| Zoology 1a .....         | 4                                 | Zoology 1b .....         | 4                                 |
| Foreign Language .....   | 4                                 | Foreign Language .....   | 4                                 |
| Physical Education ..... | $\frac{1}{2}$                     | Physical Education ..... | $\frac{1}{2}$                     |
|                          | <u><math>16\frac{1}{2}</math></u> |                          | <u><math>16\frac{1}{2}</math></u> |

#### Second Year

| First Semester           | Units                             | Second Semester          | Units                             |
|--------------------------|-----------------------------------|--------------------------|-----------------------------------|
| Chemistry 8 .....        | 3                                 | Chemistry 5 .....        | 3                                 |
| Physics 2a .....         | 3                                 | Physics 2b .....         | 3                                 |
| Physics 3a .....         | 1                                 | Physics 3b .....         | 1                                 |
| Mathematics C .....      | 3                                 | Hygiene .....            | 2                                 |
| Social Science .....     | 3                                 | Social Science .....     | 3                                 |
| Psychology 1a .....      | 3                                 | Psychology 1b .....      | 3                                 |
| History 1a .....         | 2                                 | History 1b .....         | 2                                 |
| Physical Education ..... | $\frac{1}{2}$                     | Physical Education ..... | $\frac{1}{2}$                     |
|                          | <u><math>18\frac{1}{2}</math></u> |                          | <u><math>17\frac{1}{2}</math></u> |

## MEDICINE

### Suggested Program

#### First Year

| First Semester                   | Units | Second Semester                  | Units |
|----------------------------------|-------|----------------------------------|-------|
| English 1a or<br>Speech 1a ..... | 3     | English 1b or<br>Speech 1b ..... | 3     |
| Chemistry 1a .....               | 5     | Chemistry 1b .....               | 5     |
| Foreign Language .....           | 4     | Foreign Language .....           | 4     |
| History 1a .....                 | 2     | History 1b .....                 | 2     |
| Hygiene .....                    | 2     | Elective .....                   | 2     |

|                    |               |                    |               |
|--------------------|---------------|--------------------|---------------|
| Physical Education | ..... 1/2     | Physical Education | ..... 1/2     |
|                    | <u>16 1/2</u> |                    | <u>16 1/2</u> |

### Second Year

| First Semester     | Units         | Second Semester    | Units         |
|--------------------|---------------|--------------------|---------------|
| Zoology 1a         | ..... 4       | Zoology 1b         | ..... 4       |
| Foreign Language   | ..... 4       | Foreign Language   | ..... 4       |
| Psychology 1a      | ..... 3       | Psychology 1b      | ..... 3       |
| Electives          | ..... 5       | Electives          | ..... 5       |
| Physical Education | ..... 1/2     | Physical Education | ..... 1/2     |
|                    | <u>16 1/2</u> |                    | <u>16 1/2</u> |

## PHARMACY

### Suggested Program

#### First Year

| First Semester     | Units         | Second Semester    | Units         |
|--------------------|---------------|--------------------|---------------|
| English 1a         | ..... 3       | English 1b         | ..... 3       |
| Chemistry 1a       | ..... 5       | Chemistry 1b       | ..... 5       |
| Zoology 1a         | ..... 4       | Zoology 1b         | ..... 4       |
| Mathematics D      | ..... 3       | Mathematics C      | ..... 3       |
| Physical Education | ..... 1/2     | Hygiene            | ..... 2       |
|                    | <u>15 1/2</u> | Physical Education | ..... 1/2     |
|                    |               |                    | <u>17 1/2</u> |

#### Second Year

| First Semester     | Units         | Second Semester    | Units         |
|--------------------|---------------|--------------------|---------------|
| Anatomy 1a         | ..... 4       | Botany 12          | ..... 4       |
| Physics 2a         | ..... 3       | Physiology 1a      | ..... 3       |
| Physics 3a         | ..... 1       | Physiology 1c      | ..... 1       |
| Chemistry 8        | ..... 3       | Physics 2b         | ..... 3       |
| Chemistry 9        | ..... 3       | Physics 3b         | ..... 1       |
| History 1a         | ..... 2       | Chemistry 5        | ..... 3       |
| Physical Education | ..... 1/2     | History 1b         | ..... 2       |
|                    | <u>16 1/2</u> | Physical Education | ..... 1/2     |
|                    |               |                    | <u>17 1/2</u> |

## NURSES' TRAINING

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 courses. The Bachelor of Science degree may be obtained by completing an additional year of university study after the student has received the Registered Nurse Certificate. For admission to hospital training schools, the student is advised to complete at least thirty units of a college pre-nursing course with a "C" average.

According to a ruling by the California State Board of Nurse Examiners, the course in schools of nursing is one of thirty-six months. An applicant must be at least eighteen years of age, a high school graduate and have completed satisfactorily a course in general chemistry. In addition, most schools are now requiring at least a year of college work for entrance, while two years are recommended. This preparation should include science, psychology and English.

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

## PRE-NURSING CURRICULA

### Universities and University Hospital Training Schools

This curriculum leads to a Bachelor of Science degree and a Certificate of Nursing.

#### Suggested Program

##### First Year

| First Semester                         | Units         | Second Semester                        | Units         |
|--|---------------|--|---------------|
| Chemistry 1a .....                     | 5             | Chemistry 1b .....                     | 5             |
| Psychology 1a .....                    | 3             | Psychology 1b .....                    | 3             |
| English 1a .....                       | 3             | English 1b .....                       | 3             |
| Foreign Language or<br>electives ..... | 5             | Foreign language or<br>electives ..... | 5             |
| Physical Education .....               | 1/2           | Physical Education .....               | 1/2           |
|  | <u>16 1/2</u> |  | <u>16 1/2</u> |

| <b>Second Year</b>     |                 |                        |                 |
|------------------------|-----------------|------------------------|-----------------|
| First Semester         | Units           | Second Semester        | Units           |
| Bacteriology 1 .....   | 5               | Physiology 1a .....    | 3               |
| Anatomy 1a .....       | 4               | Physiology 1c .....    | 2               |
| Sociology 1a .....     | 3               | Sociology 1b .....     | 3               |
| History 1a .....       | 2               | History 1b .....       | 2               |
| Electives .....        | 2               | Electives .....        | 3               |
| Physical Education ... | $\frac{1}{2}$   | Hygiene .....          | 2               |
|                        | <hr/>           | Physical Education ... | $\frac{1}{2}$   |
|                        | $16\frac{1}{2}$ |                        | <hr/>           |
|                        |                 |                        | $15\frac{1}{2}$ |

### Hospital Training Schools

Either of the following curricula is acceptable foundation work for the training course in a Hospital School of Nursing. The two year program is recommended.

### Suggested Two-Year Program

| <b>First Year</b>          |                 |                          |                 |
|----------------------------|-----------------|--------------------------|-----------------|
| First Semester             | Units           | Second Semester          | Units           |
| Chemistry 53 .....         | 4               | Bacteriology 60 .....    | 4               |
| Psychology 1a or 51a ..... | 3               | Psychology 1b or 51b ... | 3               |
| English 1a .....           | 3               | English 1b .....         | 3               |
| History 1a .....           | 2               | History 1b .....         | 2               |
| Electives .....            | 3               | Electives .....          | 4               |
| Physical Education ...     | $\frac{1}{2}$   | Physical Education ...   | $\frac{1}{2}$   |
|                            | <hr/>           |                          | <hr/>           |
|                            | $15\frac{1}{2}$ |                          | $16\frac{1}{2}$ |

| <b>Second Year</b>     |                 |                        |                 |
|------------------------|-----------------|------------------------|-----------------|
| First Semester         | Units           | Second Semester        | Units           |
| Anatomy 1a .....       | 4               | Physiology 1a .....    | 3               |
| Nutrition 1a .....     | 2               | Physiology 1c .....    | 2               |
| Speech 21 .....        | 3               | Nutrition 1b .....     | 2               |
| Sociology 1a .....     | 3               | Hygiene .....          | 2               |
| Electives .....        | 4               | Sociology 1b .....     | 3               |
| Physical Education ... | $\frac{1}{2}$   | Electives .....        | 3               |
|                        | <hr/>           | Physical Education ... | $\frac{1}{2}$   |
|                        | $16\frac{1}{2}$ |                        | <hr/>           |
|                        |                 |                        | $15\frac{1}{2}$ |

### Suggested One-Year Program

| First Semester     | Units | Second Semester       | Units |
|--------------------|-------|-----------------------|-------|
| Chemistry 53 ..... | 4     | Bacteriology 60 ..... | 4     |
| Anatomy 1a .....   | 4     | Physiology 1a .....   | 3     |

|                            |                                   |                            |                                   |
|----------------------------|-----------------------------------|----------------------------|-----------------------------------|
| Nutrition 1a .....         | 2                                 | Nutrition 1b .....         | 2                                 |
| Psychology 1a or 51a ..... | 3                                 | Psychology 1b or 51b ..... | 3                                 |
| English 1a .....           | 3                                 | Hygiene .....              | 2                                 |
| Physical Education .....   | $\frac{1}{2}$                     | Physiology 1c .....        | 1                                 |
|                            | <u>16<math>\frac{1}{2}</math></u> |                            | <u>15<math>\frac{1}{2}</math></u> |

### POLICE TRAINING

This curriculum is designed to train men and women for public service in the field of police work.

In addition to the general requirements for admission to the college, the student must possess certain basic qualifications for police service including a satisfactory scholastic record in high school, an acceptable physical examination, and the intelligence and aptitude required for success as a law enforcement officer.

In-service training is provided in this curriculum for men or women already employed by any law enforcement agency. This type of student may enroll, upon consultation with the instructor, for the entire course or for those subjects in which he is interested.

The two-year course as outlined below fulfills the requirements for the degree of Associate in Arts.

#### Suggested Program in Police Training

##### First Year

| First Semester              | Units                             | Second Semester             | Units                             |
|-----------------------------|-----------------------------------|-----------------------------|-----------------------------------|
| English 51 or 1a .....      | 3                                 | Speech 51 or 1a .....       | 3                                 |
| History 1a .....            | 2                                 | History 1b .....            | 2                                 |
| Commerce 55 .....           | 2                                 | Political Science 10b ..... | 3                                 |
| Chemistry 1a                |                                   | Chemistry 1b                |                                   |
| or elective .....           | 5                                 | or elective .....           | 5                                 |
| Political Science 10a ..... | 3                                 | Physical Education .....    | $\frac{1}{2}$                     |
| Law Enforcement 50 .....    | 1                                 | Electives .....             | 2                                 |
| Physical Education .....    | $\frac{1}{2}$                     |                             |                                   |
| Total .....                 | <u>16<math>\frac{1}{2}</math></u> | Total .....                 | <u>15<math>\frac{1}{2}</math></u> |

##### Second Year

| First Semester             | Units | Second Semester            | Units |
|----------------------------|-------|----------------------------|-------|
| English 10a .....          | 3     | Hygiene .....              | 2     |
| Sociology 3 .....          | 3     | Psychology 51a or 1b ..... | 3     |
| Psychology 51a or 1a ..... | 3     | Law Enforcement 52 .....   | 2     |

|                    |                       |                    |                       |
|--------------------|-----------------------|--------------------|-----------------------|
| Law Enforcement 51 | ..... 2               | Law Enforcement 53 | ..... 4               |
| Law Enforcement 55 | ..... 2               | Law Enforcement 54 | ..... 2               |
| Physical Education | ..... $\frac{1}{2}$   | Electives          | ..... 2               |
| Electives          | ..... 3               | Physical Education | ..... $\frac{1}{2}$   |
| Total              | ..... $16\frac{1}{2}$ | Total              | ..... $15\frac{1}{2}$ |

The following courses are suggested for electives:

|                          |                  |
|--------------------------|------------------|
| Law Enforcement 56       | Sociology 1a, 1b |
| Photography 51           | Mathematics 1    |
| Foreign Language         | Mathematics 10   |
| Mechanical Drawing 1a-1b |                  |

# Description of Courses

## AGRICULTURE

### AGRICULTURE 50a-50b — VETERANS AGRICULTURE (12-12)

This course consists of four hours of lecture a week, two hours of field instruction a week, and forty hours of a supervised farming program to develop the skills necessary for the management of a farm.

The course of study is built around the farm programs carried on by these veterans, and is designed to give instruction related to their farm experience.

### AGRICULTURE 51 — FARM MACHINERY (3).

A course in the operation, care and repair of farm machinery with demonstrations and laboratory work on tillage, planting, and harvesting machinery.

### AGRICULTURE 56 — FARM STRUCTURES (3).

A course in designing, planning, and building the various types of farm appliances and buildings necessary to the agricultural enterprises of the San Joaquin Valley.

### AGRICULTURE 58a-58b — FARM MECHANICS (3-3).

The repair, maintenance, design, and construction of farm equipment and machinery as used on San Joaquin valley farms.

### AGRICULTURE 60 — ELEMENTS OF DAIRYING (3).

A survey of the field of dairying. Study of approved management and feeding practices in the San Joaquin Valley.

### AGRICULTURE 62 — DAIRY SELECTION (2).

A course in the selection of dairy cattle. Comparative judging. A study of dairy form in relation to function.

AGRICULTURE 64 — DAIRY MANAGEMENT (2).

A study of the feeding and management of dairy cattle, record keeping, developing a herd, and raising replacement stock.

AGRICULTURE 70 — TYPES AND BREEDS OF LIVESTOCK (4).

A general course in the selection, breeding, feeding, and management of swine, sheep, and beef cattle.

AGRICULTURE 74a—FITTING AND SHOWING (1).

A course in methods of fitting and showing cattle, sheep, and hogs for sale exhibition.

AGRICULTURE 76 — SWINE PRODUCTION (2).

A study of market pork production. Selection of breeding stock, feeder pigs, and equipment. Care management, and feeding of the swine herd.

AGRICULTURE 83 — FIELD CROPS (3).

A study of the common field crops of the San Joaquin Valley such as cotton, sugar beets, potatoes, field beans. Varieties, soils, pest control, harvesting methods, etc., are considered.

AGRICULTURE 85 — DECIDUOUS FRUITS (4).

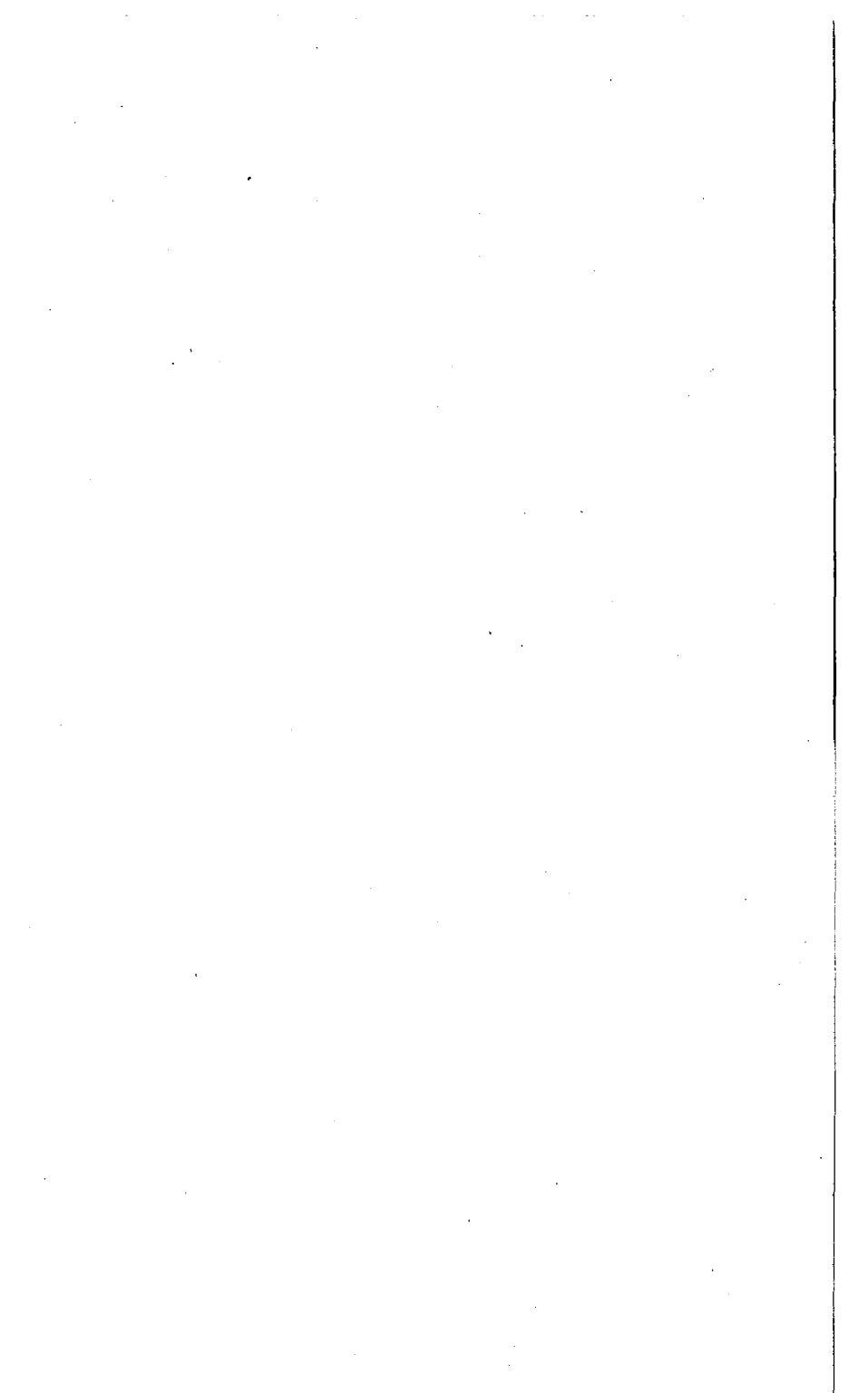
A study of the production and management practices carried on in the San Joaquin Valley including cultural practices such as budding, grafting, planting, irrigation, pruning, etc.

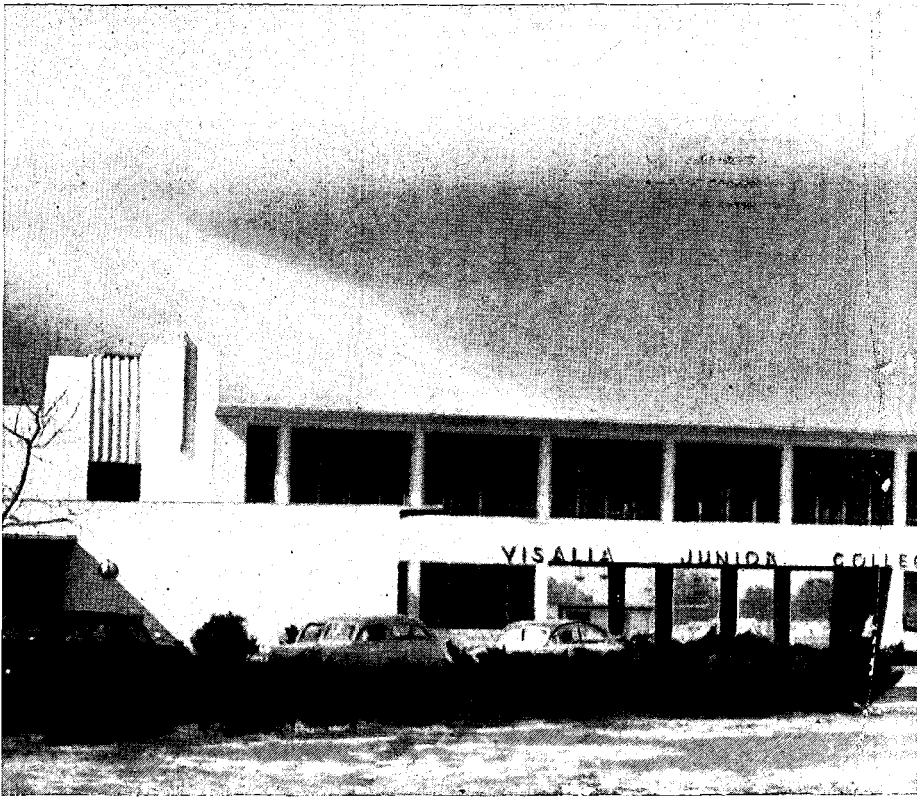
AGRICULTURE 86 — VITICULTURE (3).

A study of grape developing, ripening, and harvesting of principal varieties. Cultural practices necessary in grape production; staking, planting, cultivating, irrigating, and pumping, etc.

AGRICULTURE 87 — SOILS (3).

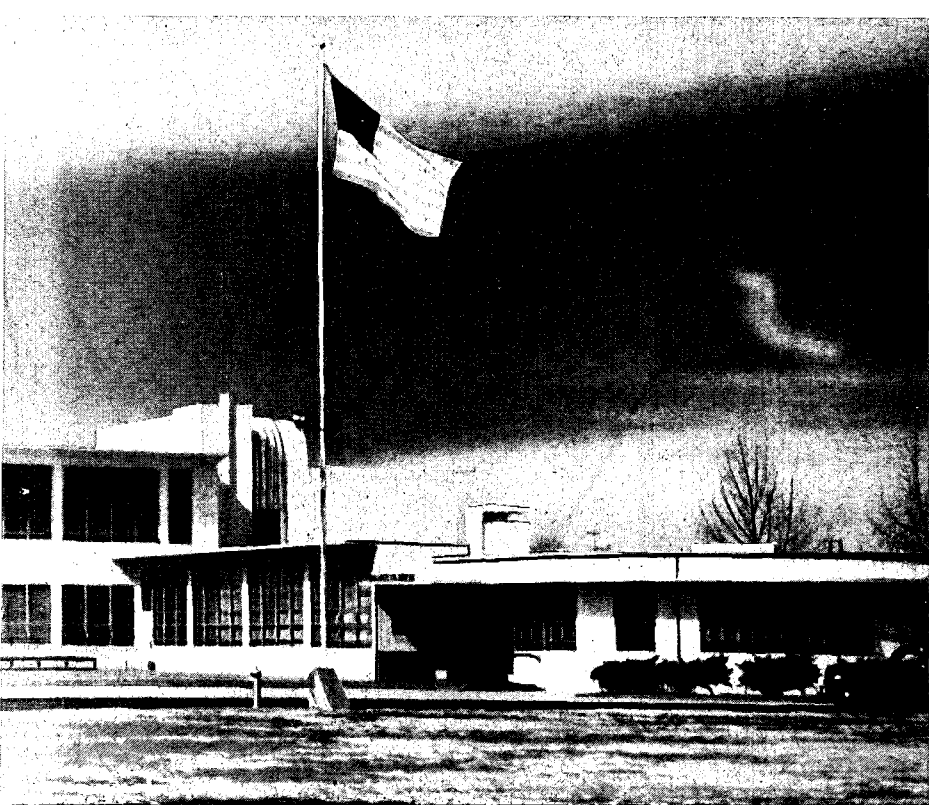
Productivity, plant nutrient availability, values, and management of different types of soils. Effects of types of farming and rotations on soil fertility.





“The educated man must  
efficiency for doing





ve scholarship for knowing,  
d culture for feeling.”



### AGRICULTURE 90 — FARM MANAGEMENT (3).

A study of prices, economic trends, budgets, labor and feed records, choice of enterprises, and credit.

## ART

### ART 6a — ART STRUCTURE (2)

A basic course in art with the primary purpose of familiarizing the student with the elements and principles used in art through the study of historic examples from all countries and periods. Creative imagination and judgment are stimulated through problems involving various media.

### ART 6b — COLOR AND DESIGN (2).

Systems of color and their application. Decorative arrangements 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 12a — ELEMENTARY WATER COLOR (2).

A study of the theory and technique of water color painting as applied to still-life studies.

### ART 12b—ADVANCED WATER COLOR (2).

Landscape painting in water color.

Prerequisite: Art 12a or equivalent.

### ART 19—ART APPRECIATION (2).

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 21—HOME PLANNING (2).

A practical course in house planning and furnishing considering the home as a functional unit in relation to the use of new materials, labor saving devices, color schemes, furniture, textiles and accessories.

Prerequisite: None.

#### ART 55—COMMERCIAL ART (2).

Poster technique, layout, newspaper and book advertising arrangement.

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

#### ART 56a-56b—CRAFTS (2-2).

Leather tooling, metal, block printing, silk screen printing, stenciling, weaving, pottery, wood carving, plastics, glass etching, plastico 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, and interpretation of accounting terminology, and a study of the theory of accounting technique.

#### COMMERCE 18a-18b—COMMERCIAL LAW (3-3)

The organization and procedure of courts; the law of contracts and torts; common legal forms; agency, partnerships, sales and negotiable instruments, corporations, surety, and insurance.

This course is offered primarily for those students who are preparing for upper division work in the field of business administration and those who are preparing for the state examinations for Certified Public Accountants. The course is given by a member of the Tulare County Bar Association.

Prerequisite: Permission of the instructor.

**COMMERCE 50a-50b — ELEMENTARY SHORT-HAND (5-5).**

A beginning course in the theory and technique of Gregg shorthand. Typewriting must be taken concurrently with Commerce 50a unless the student makes a satisfactory score in the typewriting placement test.

**COMMERCE 52a-52b—INTERMEDIATE SHORT-HAND (5-5).**

Continuation of 50a-50b. Speed and accuracy in reading, writing, and transcribing shorthand notes are emphasized.

Prerequisite: A satisfactory score in the shorthand and typewriting placement tests.

**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—ADVANCED TYPEWRITING (2-2).**

A course open to all students who have had previous instruction in typewriting and who make a satisfactory score in the typewriting 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 SHORT-HAND TRANSCRIPTION (2-2).**

A required transcription course for those shorthand students registered in 70a-70b. Emphasis is placed

upon the transcription of the vocational dictation given in the shorthand class and upon improvement of typewriting speed. Office standards are maintained.

This course must be taken concurrently with Commerce 70a-70b.

Prerequisite: A satisfactory score in the shorthand and typewriting placement tests.

#### COMMERCE 56 — TYPEWRITING FOR PERSONAL USE (2).

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, term papers, and manuscripts.

Open only to students who have not had previous instruction in typewriting.

#### COMMERCE 60a — ENGLISH FOR BUSINESS (3-3).

A course designed to give business students a review of and practice in the basic English skills necessary for office workers. It offers a review of the fundamentals of English grammar, sentence structure, punctuation, and aids in the building of an adequate business vocabulary.

#### COMMERCE 60b — WRITING FOR BUSINESS (3).

A course in business communications dealing with the central principles underlying the writing of effective business letters and reports, and providing liberal practice in applying these principles. Study is made of the basic and associated forms of business communication, sales writing, credit, collection, adjustment letters, and letters of application, etc.

This course is required of all commerce majors.

Prerequisite: Satisfactory score in English placement test, or English 51 or Commerce 60a.

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 Commerce 63a-63b. Theory of accounting technique is further developed and the functions of the accountant and auditor are considered.

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

COMMERCE 66a-66b—SPECIALIZED ACCOUNTING (3-3).

A course in the analysis of corporation, cost and tax accounting. Other specialized procedures in accounting may be included as requested.

Prerequisite: Commerce 63a-63b.

COMMERCE 67 — AUDITING (3).

A practical course in the verification, analysis, and interpretation of business records incidental to auditing procedure. The course includes theory and practical problems.

COMMERCE 68a — OFFICE MACHINES (2).

A course of instruction designed to acquaint the students with those machines in most common use in business offices and to build skill in performing the fundamental arithmetic operations upon them. The machines studied are: Comptometer, Burroughs, Marchant and Monroe Calculating Machines, Remington-Rand and Underwood-Sundstrand Adding Machines, Burroughs and Underwood-Sundstrand Posting Machines.

COMMERCE 68b — OFFICE MACHINES (2).

An advanced course designed to meet the needs of those students who desire to build professional skill in

the use of the calculating and adding machines. This course provides specialized work on practical problems chosen from the various major lines of business, thus enabling the operator to obtain proficiency.

Prerequisite: Commerce 68a.

#### COMMERCE 70a-70b — ADVANCED SHORTHAND - DICTATION (5-5).

High speed shorthand dictation, with emphasis placed upon building vocational shorthand vocabularies. The objective of this course is a shorthand dictation speed of 120 words per minute.

Commerce 55a-55b must be taken concurrently.

Prerequisite: A satisfactory score in the shorthand and typewriting placement tests.

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

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 secretarial majors.

#### COMMERCE 75 — SURVEY OF BUSINESS (3).

A survey of business from consumer standpoints. Problems of marketing and distribution. An analysis of the contract relationship, laws of sales, and passing of title. A study of advertising, buying, finance, insurance, and governmental aids.

#### COMMERCE 76a-76b — MERCHANDISING (3-3).

A study of retailing from the point 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 Dictophone, Ditto, Mimeograph, and Mimeoscope.

**COMMERCE 79 — SPELLING (1).**

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 REPORTING (3-3).**

Advanced course in shorthand 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.

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

**ENGINEERING**

**MECHANICAL DRAWING 1a-1b — ELEMENTARY DRAWING (3-3).**

A basic course in the fundamentals of mechanical drawing and modern drafting practice; lettering, geometric drawing, orthographic projection, and blue-printing.

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

Drafting practice and instruction in the conventional representation of machine parts, expressing many of the principles of mechanics; both detail and assembly working drawings.

Prerequisite: Mechanical Drawing 1a-1b.

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

Practice in the study of orthographic projection and

sketching; dealing with intricate shapes; isometric and oblique sketching; lettering and dimensioning. Study of American standards for drafting room practice; detail and assembly drawings.

Prerequisite: Mechanical Drawing 1a-1b.

#### SHEET METAL DRAFTING 50 — (3).

A course covering the theory of lateral surface development. Pattern drawings of sheet metal objects from simple to complicated intersecting shapes using simplified method of triangulation.

Prerequisite: Mechanical Drawing 1a-1b.

#### ARCHITECTURAL DRAWING 1a-1b (3-3).

The preparation of a complete set of plans for a wood frame house from preliminary sketches. A study of materials of construction, specifications, estimating costs and the California State building code.

Prerequisite: Mechanical Drawing 1a-1b.

#### TRADE DRAWING 51a-51b — (3-3)

A practical course in drawing for the building trades including the fundamentals of mechanical drawing; introduction to architectural drafting and blueprint reading; details; symbols and specifications.

#### ENGINEERING 1a-1b — PLANE SURVEYING (3-3) Two hour lectures and three hours field work.

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

Prerequisites: High school trigonometry or Mathematics C and Mechanical Drawing; These may be taken concurrently with Engineering 1a.

#### ENGINEERING 23 — DESCRIPTIVE GEOMETRY (3) Two hour lectures and three hours of drafting.

A course in the fundamentals of descriptive geometry and their applications to engineering problems.

Prerequisite: High school solid geometry or Mathematics E and Mechanical Drawing.

## ENGLISH

### A. Composition and Literature.

#### ENGLISH 1a — FIRST-YEAR READING AND COMPOSITION (3).

This course is designed to provide training in intelligent interpretation and in correct and effective expression, both oral and written, through analysis and discussion of expository types of literature, especially the essay and biography, and the writing of themes. Organization of material, clarity and directness of style, and idiomatic correctness are stressed. Experience in the preparation of a formal research paper is included.

Prerequisite: A grade of "C" or better in the English Placement Test or in English 51.

#### ENGLISH 1b — FIRST-YEAR READING AND COMPOSITION (3).

The purpose of this course is to improve the student's powers of analysis and expression, and to cultivate his appreciation of literary values, through a critical study of selected plays, poems, short stories and a novel. Oral discussion and written composition are continued.

Prerequisite: English 1a.

#### ENGLISH 5a-5b — HISTORY OF ENGLISH LITERATURE (3-3).

This course covers the history of English literature from the Anglo-Saxon period to the present, emphasizing the study of social and historical backgrounds and literary movements, with illustrative readings from literary masterpieces, lectures, and discussions.

Prerequisite: English 1a-1b.

#### ENGLISH 8 — DIRECTED READING (2).

The object 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 (3-3).

A course offering instruction and practice in news writing, feature writing, head writing, proof reading, and page makeup. Members of the class write material for the Campus and the Tartar.

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

### ENGLISH 11a-11b — PROJECT JOURNALISM (1-1).

A laboratory course for project journalism. Includes individual assignments and practice as copy-editors on campus publications.

Prerequisite: English 10a-10b.

### ENGLISH 14a-14b — CREATIVE WRITING (2-2).

The purpose of this course is to provide instruction and experience in the writing of short stories, feature articles, verse and short plays. The study of various forms and the analysis of professional models are liberally supplemented by workshop discussions of the student's own productions. Each member of the class is encouraged to specialize during the course, in the type of writing in which he is most interested.

Prerequisite: English 1a or permission of the instructor. English 14a is not prerequisite to English 14b, but is desirable.

### ENGLISH 51—GRAMMAR AND COMPOSITION (3).

This course includes drill in mechanics, diction, grammar, punctuation, and spelling, as well as practice in writing sentences, paragraphs and themes. It is intended primarily for those students who fall below the median score in the English Placement Test.

Prerequisite: None.

## ENGLISH 52—ESSENTIALS IN READING AND WRITING (3).

This course is planned to assist the student in increasing his ability to read rapidly and understandingly, and to write clearly, concisely, and correctly.

Prerequisite: English 51 or permission of a Dean.

### B. Speech Arts

#### SPEECH 1a-1b—FUNDAMENTALS OF SPEECH (3-3).

This course is concerned primarily with training in meeting practical speech situations. The work of the first semester concentrates on such fundamentals as techniques of finding and organizing speech materials, effective use of the voice in communication, and good platform manners. In the second semester, the student receives training in the preparation and delivery of various types of speeches, such as those to inform, to entertain, to persuade, etc.

Prerequisite: A grade of "C" or better in the English Placement Test or in English 51.

#### SPEECH 5a-5b — ARGUMENTATION AND DEBATE (3-3).

This course provides squad practice for intercollegiate debates, experience in actual debating, and training in research, discussion, logical analysis, forcefulness, and fluency of delivery. It is especially recommended for pre-legal students.

Prerequisite: Speech 1a-1b.

#### SPEECH 21 — VOICE (3).

This course is designed for the student who wishes to improve his speaking voice. It includes the theory of voice production, phonetics, and interpretation, as well as drill for improvement of enunciation, tone quality, fluency, and interpretation.

Prerequisite: None.

#### SPEECH 33a-33b — PLAY PRODUCTION (2-2).

The work of the course comprises a study of the

technique of acting and directing, and practical experience in the production of plays.

Prerequisite: A grade of "C" or better in the English Placement Test, or the consent of the instructor.

#### SPEECH 34a-34b—ADVANCED PLAY PRODUCTION (2-2).

A course designed for advanced drama students. Actual experience in acting, directing and producing short and long plays for public presentation in the College Experimental Theatre and Montgomery Auditorium.

Prerequisite: Speech 33a-33b or permission of instructor.

#### SPEECH 40 — RADIO SPEECH (2).

This is a laboratory course in microphone technique, in which voice control, diction, and radio announcing are studied. It is intended especially for speech majors and for students who wish experience in radio announcing.

Prerequisite: None.

#### SPEECH 51a-51b — PRACTICAL SPEECH (3-3).

This course is arranged for those students who intend to go directly into homemaking or business upon the completion of their junior college work. Stress is placed upon the development of poise and self-confidence, right use of the voice, and parliamentary procedure for meetings of clubs etc.

Prerequisite: For Speech 51a: None  
for Speech 51b: Speech 51a.

### FOREIGN LANGUAGES

#### FRENCH 1a — ELEMENTARY FRENCH (4).

The essentials of grammar as a basis for reading, speaking, and writing correctly the French language; reading of simple French stories; practice in conversation.

Corresponds to first two years of high school French.

**FRENCH 1b — (4).**

Continuation of French 1a.

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

**FRENCH 1c — INTERMEDIATE FRENCH (4).**

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 — (4).**

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 (4).**

Pronunciation; essential of grammar; elementary composition and conversation with emphasis on reading.

Corresponds to first two years of high school German.

Prerequisite: None.

**GERMAN 1b — (4).**

Continuation of German 1a with more extensive reading.

Prerequisite: German 1a or two years of high school German.

**GERMAN 1c—INTERMEDIATE GERMAN (4).**

Reading of modern literature and some classics; grammar review; vocabulary building; written composition; conversation.

Prerequisite; German 1b or three years of high school German.

GERMAN 1d — (4).

Continuation of German 1c; more extensive reading, writing and conversation.

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

SPANISH 1a — ELEMENTARY SPANISH (4).

The elements of grammar; pronunciation; simple conversation; acquisition of basic reading vocabulary.

Corresponds to first two years of high school Spanish.

SPANISH 1b — (4).

Continuation of Spanish 1a. More extensive reading; review of verb forms; idioms stressed; review of grammar and pronunciation; conversation.

Prerequisite: Spanish 1a or two years of high school Spanish.

SPANISH 1c — INTERMEDIATE SPANISH (4).

A thorough review of the principles of elementary Spanish; extensive reading; emphasis on comprehension of both oral and written subject matter.

Prerequisite: Spanish 1b or three years of high school Spanish.

SPANISH 1d — (4).

Continuation of Spanish 1c. Reading of representative Spanish and Spanish-American authors.

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

SPANISH 25a-25b — (3-3).

Advanced grammar, composition, conversation and reading.

Prerequisite: Spanish 1d or its equivalent.

## HOME ECONOMICS

HOME ECONOMICS 50a — FOOD PLANNING AND PREPARATION (3).

Food requirements for the family; fundamentals of food selection to meet the needs of the individual and



to fit the family budget; practice in meal planning, marketing, preparation, and serving the family group.

Prerequisite: None.

#### HOME ECONOMICS 50b — ADVANCED FOOD STUDY (3).

Advanced study in the nutritional needs of the individual. Special emphasis on feeding of children; practice in marketing, planning, and serving meals, including meals for special occasions.

Prerequisite: Home Economics 50a or its equivalent. Chemistry 55 or its equivalent recommended.

#### HOME ECONOMICS 51a — CLOTHING AND TEXTILES (3).

Basic facts concerning common textiles necessary to develop skill in the selection of clothing and household fabrics. Fundamental clothing construction techniques. Selection, use, and alteration of commercial patterns

Prerequisite: None.

#### HOME ECONOMICS 51b — ADVANCED CLOTHING CONSTRUCTION (3).

Continuation of Home Economics 51a with emphasis on the application of the principles of color and design to clothing and home furnishings. Alterations of patterns; making of basic pattern; advanced construction and tailoring techniques. Study of clothing costs and the clothing budget.

Prerequisite: Home Economics 51a or its equivalent. Art 6a-6b recommended.

#### HOME ECONOMICS 53 — HOME MANAGEMENT (2).

Housekeeping techniques. Budgeting time and money; purchase, use, and care of household equipment and furnishings; care of clothing; organization of work for efficiency and comfort; effect of children in the home. Field trips, lectures, demonstrations and practice.

Prerequisite: None.

#### HOME ECONOMICS 55 — HOME NURSING (2).

A course designed to give instruction and practice in the routine care of a patient in the home; bed making; bathing patient in bed; taking pulse and temperature; following the doctor's orders and keeping a chart; preparing trays; making simple gadgets for a patient's comfort. A study of contagious diseases and their control. Maternity care.

Prerequisite: None.

#### HOME ECONOMICS 57 — CHILD CARE AND TRAINING (2).

A course in prenatal care and care of the very young child. Feeding and clothing the infant and child to school age; making a layette and self-help garments for the child. The place of stories, toys, and play in child development. Making of toys at home.

#### NUTRITION 1a-1b — ELEMENTS OF NUTRITION (2-2).

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.

#### ART 20 — COSTUME DESIGN (2).

See Art.

#### ART 21 — HOME PLANNING (2).

See Art.

### HYGIENE

#### HYGIENE 1 — MEN (2).

A general course including the facts necessary for intelligent maintenance of physical and mental health; an interpretation of life processes; a study of the principal body systems and of the hygiene and first aid associated with each.

#### HYGIENE 2 — WOMEN (2).

A general course in health for personal use; effect

of exercise and fatigue; balanced diet; means of avoiding infections; habits contributing to physical and mental well being; essentials in first aid.

### LIBRARY SCIENCE

LIBRARY SCIENCE 50a-50b — (1 or 2).

A course of training in the use of books and libraries for students who wish to learn how to use libraries with greater efficiency, and for those who are interested in librarianship as a vocation. Two or four practice periods per week.

### MATHEMATICS

MATHEMATICS 1 — INTERMEDIATE ALGEBRA (3).

Rapid review of elementary algebra; exponents; radicals; progressions; quadratic equations; system of 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 2 — MATHEMATICS OF FINANCE (3).

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

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

MATHEMATICS 3a — ANALYTIC GEOMETRY (3).

The plotting of curves, loci, geometry of the straight line, circle, parabola, ellipse, hyperbola, transformation of co-ordinates; polar co-ordinates; parametric representation.

Prerequisites: Two years of high school algebra or Mathematics 1; plain 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 co-ordinates.

Prerequisites: Mathematics 3a.

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

The integration of algebraic and transcendental functions; the areas and volumes of plane figures in polar and Cartesian co-ordinates; 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; determination; permutations and combination; probability; partial fraction; higher equations; theory of equations.

Prerequisites: One and one-half years of algebra in high school, or Mathematics 1.

#### MATHEMATICS 10 — (3).

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

#### MATHEMATICS 19a — VECTORS AND ALLIED TOPICS (2).

A course which includes nomographs, complex variables, hyperbolic functions, vector addition, vector dot and cross products with their applications.

Should be taken concurrently with Mathematics 4a.

Prerequisite: Mathematics 3b.

#### MATHEMATICS 19b — ELEMENTARY DIFFERENTIAL EQUATIONS (2).

A study of the differential equation of the first order and first degree, first order and higher degree, appli-

cations, total differential equation, linear differential equations, integration in series, partial differential equations of first and higher order.

Should be taken concurrently with mathematics 4b.

Prerequisite: Mathematics 19a.

#### MATHEMATICS 20 — SLIDE RULE (2).

Adjustment, operation, and the theory of the slide rule; computation rules; graphical methods, interpolation, logarithms.

#### 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 51—ELEMENTARY ALGEBRA (3).

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.

#### MATHEMATICS 52 — PLANE GEOMETRY (3).

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

Prerequisite: Elementary algebra.

### MUSIC

Music majors are required to participate in at least one music activity each semester, with or without credit.

**MUSIC 1a-1b-1c-1d—WOMEN'S CHORUS (1-1-1-1).**

Chorus in a cappella as well as accompanied music.

**MUSIC 2a-2b — INSTRUMENTAL ENSEMBLE  
( $\frac{1}{2}$ - $\frac{1}{2}$ ).**

The study and performance of instrumental solos, duets, trios and quartettes.

Prerequisite: Permission of instructor.

**MUSIC 3a-3b-3c — WOOD WIND, BRASS AND STRINGS (1-1-1).**

A course designed for all beginners of band or orchestral instruments.

**MUSIC 4a-4b — MUSICIANSHIP (3-3).**

A basic course for a major in music. Notation, terminology, dictation and music reading; preparation for harmony; working knowledge of major and minor scales, intervals, inversions, and simple-writing. One, two, and three-part dictation.

**MUSIC 5a-5b-5c-5d — VOCAL ENSEMBLE ( $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ )**

The study and performance of vocal solos, duets, trios, and quartettes.

Prerequisite: Permission of instructor.

**MUSIC 6a-6b-6c-6d—MEN'S CHORUS (1-1-1-1).**

Chorus in a cappella and accompanied music.

**MUSIC 9a-9b — PUBLIC SCHOOL MUSIC (3-2).**

A basic course for Kindergarten-Primary and General Elementary credentials. Development of voice, basic theoretical facts, sight-singing, rhythmic, and tonal dictation.

**MUSIC 10 — MUSIC APPRECIATION (2).**

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 are considered.

**MUSIC 14a-14b — ELEMENTARY HARMONY (3-3).**

A course in the fundamentals of harmony, music notation, theory, ear training, melodic and harmonic dictation, piano, sight reading, and some composition.

Prerequisite: Music 4a-4b or high school harmony.

**MUSIC 50a-50b — ELEMENTARY ORCHESTRA (1or2).**

A course for beginners in all instruments.

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

A course for students selected by instructor for advanced instruction with the concert orchestra.

**MUSIC 52a-52b — ELEMENTARY BAND (1-1).**

A course for beginners in all instruments excepting strings.

**MUSIC 53a-53b — ADVANCED BAND (1-1).**

A course for students selected by instructor for advanced instruction with the concert band.

## **PHILOSOPHY**

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

This course in philosophy is presented by types or typical world views. It attacks the fundamental problems by acquainting the student with representative thinkers and major philosophical systems, and aims to make the subject as practical as possible.

Prerequisite: None.

**PHILOSOPHY 10a-10b — HISTORY OF PHILOSOPHY (3-3).**

This is a course in the history of philosophy, chronologically considered, treating of the major philosophers from the pre-Socratics to the Scientific Era.

Prerequisite: None.

## PHOTOGRAPHY

### PHOTOGRAPHY 51 — (2 or 3)

A course designed to give the beginner a knowledge of the basic fundamentals of the photographic process. The work begins with instruction and practical experience in picture-taking, preparation of formulas, developing, printing, and enlarging. The advanced techniques of retouching, toning, and coloring; paper negative process; infrared and color photography round out the course.

Prerequisite: None.

## PHYSICAL EDUCATION

A wide range of activities adapted to the various needs, interests, and capacities of the students is offered. Two units of physical education activities are required for graduation. 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 class for at least two periods each week.

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 — GENERAL ACTIVITY ( $\frac{1}{2}$ - $\frac{1}{2}$ ).

1. Archery (Men and Women).
2. Badminton (Men and Women).
3. Boxing (Men).
4. Dancing (Men and Women) folk, modern, social
5. Fencing (Men)
6. Golf (Men and Women)
7. Recreation Activities (Men): group games in touch football, volleyball, soccer, softball, basketball.
8. Swimming (Men and Women)
9. Team Sports (Women)
10. Tennis (Men and Women)



11. Tumbling (Men)
12. Weight Lifting (Men)
13. Wrestling (Men)

No general activity course may be repeated. An advanced course will be offered to the fourth semester student.

#### PHYSICAL EDUCATION — COMPETITIVE PROGRAM (1½-1½)

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, baseball, tennis, and track.

#### PHYSICAL EDUCATION 20—SKILL AND ANALYSIS OF SPORTS (3).

Two lecture hours and two laboratory hours each week.

A course for women in the analytic study of skill, team tactics, rules and testing methods; development of skills in badminton, tennis, archery, golf and swimming.

This course corresponds to Physical Education 70 at Fresno State College.

### POLICE TRAINING

#### LAW ENFORCEMENT 59 — LAW (VEHICLE CODE) (1).

A non-technical presentation of law pertaining to automobiles. In addition to the rules of the road a study is made of the causes and responsibilities in connection with accidents. The course is based on the

California Vehicle Code.

LAW ENFORCEMENT 51—CRIMINAL LAW (2).

A survey of criminal procedure from apprehension to conviction with reference to the Penal Code of California. Arrests with and without a warrant; information; functions of the grand jury; coroner's inquest; procedures at the trial.

LAW ENFORCEMENT 52 — LAW OF ARRESTS (2).

A study of the rights and duties of officers, citizens and prisoners; serving of warrants; extradition proceedings.

LAW ENFORCEMENT 53 — CRIMINAL INVESTIGATION (4).

A study of the fundamental principles and problems of an investigator. Resources and techniques of searches; observation; surveillance and interrogation.

LAW ENFORCEMENT 54 — RULES OF EVIDENCE (2).

A study of the methods of obtaining evidence; of presenting evidence in court; elemental rules of evidence; weight and value of various types of evidence.

LAW ENFORCEMENT 55 — POLICE RECORDS AND REPORTS (2).

A study of the structure and functions of the police record system from administration aspect; complaint records; criminal files; cross index techniques; modus operandi system; report writing; description of property; collateral police records; police statistical method and prediction of significant trends.

LAW ENFORCEMENT 56 — CRIMINAL IDENTIFICATION (3).

Theory and practice in the study of fingerprints, description of persons, and modus operandi in its application to individual characteristics.

POLITICAL SCIENCE 10a-10b — GENERAL ADMINISTRATION OF JUSTICE (3-3).

See Social Science.

SOCIOLOGY 3 — JUVENILE DELINQUENCY (3).

See Social Science.

### PSYCHOLOGY

PSYCHOLOGY 1a — GENERAL PSYCHOLOGY (3).

A study of the behavior of the individual. Special emphasis is placed on the scope and methods of psychology, psychological development, learning, memory, thinking, habit formation, motivation, feeling and emotion, attending, perceiving, sensory structures, and individual differences.

Prerequisite: None.

PSYCHOLOGY 1b — PSYCHOLOGY OF ADJUSTMENT (3).

This course consists of a general orientation into the fields of adjustment, personality, abnormalities, and mental hygiene.

Prerequisite: Psychology 1a.

PSYCHOLOGY 25 — PSYCHOLOGY OF PERSONAL AND SOCIAL ADJUSTMENT (1).

A course in psychology and orientation designed especially for entering freshmen students. The following will be considered: Study-habits, learning an adjustment, improving one's personality, psychology of social living, the choosing of a mate and marriage adjustment, use of the library, and educational and vocational planning. Psychological and educational tests will be given and students will have opportunity to obtain individual counseling help.

Prerequisite: None.

PSYCHOLOGY 51 — PRACTICAL PSYCHOLOGY (3)

A practical course in psychology designed primarily

for students taking the two-year completion curriculum. Physiological backgrounds and factors in human development, motivation, emotions and their controls, sensory structures, reactions to conflict, learning and its management, vocational and employment psychology, getting along with people, and psychology in American democracy will be considered.

Prerequisite: None.

## SCIENCE

### ANATOMY 1a — HUMAN ANATOMY (4)

Three hour lectures and three hours laboratory each week.

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

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

### BACTERIOLOGY 1 — GENERAL BACTERIOLOGY (4 or 5).

Three hour lectures and three or six hours laboratory each week.

A course designed to give the student the fundamentals of bacterial life, and to develop scientific and bacteriological technique.

The lectures cover: history, morphology, biochemical activities, effects of physical and chemical agents, and an introduction to infection and disease.

The laboratory exercises deal with the morphology and the physiology of bacteria.

Prerequisite: Chemistry 1a.

### BACTERIOLOGY 60 — (4).

Three hour lectures and three hours laboratory each week.

A course designed to give the prenursing student an understanding of the principles of bacteriology, in-

cluding, disinfection, immunity, and the specific agents of disease.

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

#### BIOLOGY 1a-1b — GENERAL BIOLOGY (4-4).

Three hour lectures and six hours laboratory each week.

A practical course designed to enrich the cultural background of the student as well as furnish a satisfactory biological foundation in any field requiring a general knowledge of life phenomena. An attempt is made to emphasize those biological principles which have applications in everyday experiences.

Course 1a, animal biology; 1b, plant biology.

Prerequisite: None.

#### BOTANY 1a-1b — GENERAL BOTANY (4-4).

Three hour lectures and six hours laboratory each week.

An introductory study of the basic principles of plant morphology, taxonomy, ecology, physiology, heredity, and evolution.

Prerequisite: None.

#### BOTANY 12 — SURVEY OF BOTANY (4).

Three hour lectures and one hour of demonstration.

A one-semester survey of the field of botany covering the structure, functions, and classifications of plants. This is not a laboratory course and is intended for agriculture students taking a terminal course and for prepharmacy students.

#### BOTANY 50 — BOTANY FOR AGRICULTURE (3).

Three hour lectures each week.

Basic principles of plant structure; growth, reproduction, functions. Required for students in agriculture who are specializing in plant science.

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

Three hour lectures and six hours laboratory each

week.

A study of the fundamental theories and laws of chemistry, the applications of mathematics to chemistry, and an introduction to laboratory qualitative analysis. This is a basic course for those intending to enter the professional fields which require chemistry as a foundation course.

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

#### CHEMISTRY 5 — QUANTITATIVE ANALYSIS (3)

One hour lecture, one hour recitation, six hours laboratory work each week.

An introductory course in the fundamental principles of quantitative analysis with a theoretical treatment of the laws and theories which apply, and general instructions in various methods of gravimetric and volumetric analysis. For students interested in medicine, pharmacy, clinical work, petroleum, or chemical industries in general.

Prerequisite: Chemistry 1b with a grade of "C" or better.

#### CHEMISTRY 8 — ORGANIC CHEMISTRY (3).

Three hour lectures each week.

A study of the fundamental theories and laws of the chemistry of the aliphatic and aromatic carbon compounds. Designed primarily for majors in: premedicine, prechemistry, related biological fields, and engineering.

Prerequisite: Chemistry 1a or 1b with a grade of "C" or better.

#### CHEMISTRY 9—ORGANIC CHEMISTRY (3).

One hour lecture and six hours laboratory each week.

A study of the properties and reaction of the common types of carbon compounds. Designed as the laboratory for Chemistry 8.

Prerequisite: Chemistry 8: or Chemistry 8 may be taken concurrently.

### CHEMISTRY 50 — CHEMISTRY FOR AGRICULTURE (3).

Three hour lectures each week.

An introduction to elementary chemistry as applied daily in agriculture, including chemicals, elements and reactions found in agriculture. Formulae of fertilizers, insecticides, etc., will be considered.

Prerequisite: None.

### CHEMISTRY 53 — GENERAL CHEMISTRY (4).

Three hour lectures and one three-hour laboratory period each week.

An introductory course in the principles, resources, and applications of general chemistry. Organic chemistry and other topics of interest to pre-nursing students are stressed.

Prerequisite: None.

### CHEMISTRY 54 — ELEMENTARY CHEMISTRY (4).

Three hour lectures and one three-hour laboratory period each week.

An introduction to the theories, laws, and concepts of chemistry. Practical application of chemistry in daily living will be stressed. The course is primarily for those desiring an elementary course in chemistry before taking Chemistry 1a. Also suitable for students who, not having had high school chemistry, desire a knowledge of some practical aspects of chemistry.

Prerequisite: None.

### GEOLOGY 1a—PHYSICAL GEOLOGY (3).

Three hour lectures each week.

A consideration of the composition and structure of the earth and internal and external processes which modify the crust and the surface. Dynamical and structural geology. Lectures, recitations, laboratory, and field trips.

Prerequisite: None. Chemistry recommended.

### GEOLOGY 1b—HISTORICAL GEOLOGY (3).

Three hour lectures each week.

A consideration of the geologic history of the earth, as shown by the changing patterns of land and sea and by the succession of fauna and flora. Conferences, lectures and occasional field trips.

Prerequisite: Geology 1a. Biology recommended.

### METEOROLOGY 1—THE PHYSICAL BASIS OF WEATHER (3).

Three hour lectures each week.

A study of the atmospheric temperature, pressure, humidity, stability; condensation of moisture, clouds, fog, precipitation; air movements, cyclones; air masses and frontal analysis; weather maps and sequences; meteorological instruments.

Prerequisite: None.

### PALEONTOLOGY 1—ELEMENTARY PALEONTOLOGY (3).

Three hour lectures each week.

A discussion of the principles on which the history of life is based. Illustrations of development taken from certain groups of animals for which the fossil record is essentially complete. Occasional field trips.

Prerequisite: None. Biology 1a or Geology 1a recommended.

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

Three hour lectures and three hours laboratory each week.

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

Prerequisite: None. High school physics or high school chemistry recommended. Trigonometry recommended but may be taken concurrently.

### PHYSICS 1c — GENERAL PHYSICS (3).

Three hour lectures and three hours laboratory each week.

A study of the fundamentals of electricity and magnetism.

Prerequisite: Physics 1a-1b.



**PHYSICS 1d — GENERAL PHYSICS (3).**

Three hour lectures and three hours laboratory each week.

A course covering the fundamentals of wave motion, sound and light.

Prerequisite: Physics 1c.

**PHYSICS 2a-2b — GENERAL PHYSICS (3-3).**

Three hour lectures each week.

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

Prerequisite: Trigonometry or Math C.

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

One three-hour laboratory each week in which the students may work out experiments dealing with the phases of physics covered in Physics 2a-2b. Should be taken concurrently with Physics 2a-2b.

**PHYSICS 20 — RADIO COMMUNICATION (3).**

An elementary course covering the fundamentals of alternating and direct current electricity, vacuum tubes, oscillators, and amplifiers, design of radio broadcast and receiving equipment. Qualified students will be allowed to operate a short wave transmitter.

Prerequisite None.

**PHYSICS 23a-23b—ELEMENTARY RADIO LABORATORY (1 or 2—1 or 2)**

Three or six hours laboratory each week.

Laboratory time to be devoted to practice in International Telegraph Code, construction of radio equipment, or simple radio tests and measurements.

Prerequisite: Physics 20 or permission of instructor.

**PHYSICS 50a—ELEMENTARY RADIO PHYSICS (3).**

An elementary course in the fundamentals of radio

receiving and transmitting equipment intended for those students who have an avocational interest in radio and electronics.

PHYSICS 50b—ELEMENTARY RADIO PHYSICS (1 or 2).

A laboratory course in which students work on their own radio projects; practice of the International Morse Code; construction for radio equipment; radio repair work.

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

Three hour lectures and three hours laboratory each week.

A survey of physics with application to industry and modern life.

Prerequisite: None.

PHYSIOLOGY 1a — INTRODUCTORY PHYSIOLOGY (3).

Three hour lectures each week.

A survey of the systems of the body and their functions. Special emphasis is placed upon the functional inter-relationships of the neuro-muscular, circulatory, respiratory, digestive and endocrine systems. This course will satisfy the requirements of pre-nursing and physical education majors, and of a general cultural course in life science.

Prerequisite: None. Anatomy 1a is recommended.

PHYSIOLOGY 1c — INTRODUCTORY PHYSIOLOGY LABORATORY (1or2).

Three or six hours laboratory each week.

A course covering experimental phases of the lecture material. The experiments cover nerve-muscle preparation, and recordings, sensory apparatus, blood pressures and clinical blood examinations, respiration, chemistry of food, urinalysis, etc.

Prerequisite: Physiology 1a; or Physiology 1a may be taken concurrently.

Note: Students should check the requirements of the

college to which they intend to transfer before signing up for less than 2 units of laboratory.

#### ZOOLOGY 1a-1b — GENERAL ZOOLOGY (4-4).

Three hour lectures and six hours laboratory each week.

An introductory study of the basic principles of animal morphology, taxonomy, ecology, physiology, embryology, heredity, and evolution. This course satisfies the zoology requirements of pre-medicine, dentistry, agriculture, etc.

Prerequisite: None.

#### ZOOLOGY 10 — GENERAL ZOOLOGY (3).

Three lectures each week.

An introductory study of the basic principles of biology as illustrated on both plants and animals. Open to those students who have not had Botany 1a-1b, Zoology 1a-1b, Anatomy 1a or Physiology 1a-1c.

Prerequisite: None.

### SOCIAL SCIENCE

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

An introduction to the study of the various major governments of the world, elementary principles of political science, and the forces behind political processes.

#### POLITICAL SCIENCE 10a-10b — GENERAL ADMINISTRATION OF JUSTICE (3-3).

A study of the purpose, function and brief history of the agencies dealing with the administration of justice. Discussion of crime, the criminal, traffic and vice as social and police problems. A survey of criminal laws and procedure; function of the courts, prosecuting and defense attorneys; correctional and penal institutions; probation and parole; American and foreign police systems.

#### ECONOMICS 1a-1b — PRINCIPLES OF ECONOMICS (3-3).

An introduction to the fundamental principles of

economics. This is a brief study of the problems involving the production, exchange, and use of wealth. An attempt is made to give the student an approach to the economic issues of the present, and an understanding of modern social problems.

#### 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 emphasizes 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 transportation, recreational, and residential occupation.

#### HISTORY 1a-1b — AMERICAN HISTORY AND INSTITUTIONS (2-2).

A survey of the development of American economic, political, and social institutions.

This course fulfills all state requirements in American history and government.

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

The evolution of western civilization from antiquity to the contemporary scene. The course presents a general perspective through a consideration of the development of religious, political, intellectual, and economic institutions. The aim is to lay a foundation for the understanding of contemporary problems.

Prerequisite for History 4a: None.

History 4a is a Prerequisite to 4b for freshmen.

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

A general survey of the history of North, Central, and South America. Emphasis the first semester is on the European inheritance, colonial development, and international rivalry. The second semester is devoted to the wars of independence, the development of the American nations, and their interrelations during the nineteenth and twentieth centuries.

### **SOCIOLOGY 1a-1b — INTRODUCTION TO SOCIOLOGY (3-3).**

An introductory course in the development of human institutions, the organization of society, and the problems arising from group relationships in a changing society.

### **SOCIOLOGY 3 — JUVENILE DELINQUENCY (3).**

Character, extent, and causes of juvenile delinquency; social diagnosis and case study; case work approach; modern methods of treatment and prevention; police techniques employed in the repression of delinquency; organization and consolidation of community resources in preventing delinquency.

## **TRADES AND INDUSTRIES**

### **a. Building Trades**

#### **BUILDING TRADES 55a-55b — ELEMENTARY CARPENTRY (10-10).**

An introductory course in the care and use of tools, blueprint reading, material estimating, bearing capacities of different types of soil, laying out buildings, foundation form, construction, framing. The student will be required to apply theory and techniques in his practice work on a project.

#### **BUILDING TRADES 56a-56b — ADVANCED CARPENTRY (10-10).**

A continuation of Building Trades 55a-55b. The

course covers roof framing, exterior trim, interior trim, staircase construction and cabinet work.

TRADE DRAWING 51a-51b See Engineering

**b. Mechanics**

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

Through lecture, demonstration and practice, the student acquires in this course 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).**

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; rasing 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.

