



# IMPERIAL VALLEY COLLEGE

A PUBLIC JUNIOR COLLEGE IN CALIFORNIA

GENERAL CATALOG

**ANNOUNCEMENT OF COURSES**

**for**

**1959 - 1960**

E L C E N T R O  
I M P E R I A L C O U N T Y  
C A L I F O R N I A

**IMPERIAL VALLEY COLLEGE  
CALENDAR  
1959 - 1960**

**FIRST SEMESTER**

- Sept. 3—9:00 a.m.—College Aptitude Tests and English Placement Tests.  
1:00 p.m.—Tests will be repeated.
- Sept. 4—9:00 a.m.—Tests will be repeated.
- Sept. 8—Registration of sophomores.
- Sept. 9, 10—Registration of freshmen.
- Sept. 12—Teacher's Institute—No registration of students.
- Sept. 14—Monday. Opening Assembly, 9:15 a.m. All students. Instruction begins.  
1:00 p.m.—Registration continues for those who have been unable to complete registration.
- Oct. 23—Last day for withdrawal from classes without penalty.
- Nov. 13—Teacher's Institute.
- Dec. 18—Last day of classes before Christmas recess.
- Dec. 19 - Jan. 3—Christmas Recess.
- Jan. 4—Classes resume.
- Jan. 29—End of First Semester.
- Jan. 28, 29, Feb. 1—Registration for second semester.

**SECOND SEMESTER**

- Feb. 2—Instruction begins.
- March 11—Last day for withdrawal from classes without penalty.
- April 8—Last day of classes before Easter Recess.
- April 9-17—Easter Recess.
- April 18—Classes resume.
- May 30—Memorial Day Recess.
- June 10, Friday—Commencement—Last day of semester.

**A D M I N I S T R A T I O N**

1959 - 1960

**BOARD OF TRUSTEES**

W. G. FOSS, President                      ROBERT BURKE, Clerk

RAYMOND C. REEDER                      HERBERT LEE

NORBERT S. TESTER

H. S. PACKWOOD

District Superintendent

Eugene W. Waterman ..... Director

A. J. Hinshaw ..... Dean of Men

Catherine Campbell ..... Dean of Women

Jon Hondrum ..... Dean of Instruction

Rosemarie Fuller ..... Registrar

# THE FACULTY

1959 - 1960

- BARNETT, VAN ..... Sciences  
 B.S., Murray State Teachers College (Kentucky)  
 Graduate study: University of Kentucky, Fresno State College,  
 University of Southern California
- CAMPBELL, CATHERINE H. .... Dean of Women - Social Studies  
 A.B., M.A., University of Michigan  
 Further study: American University
- COUTANT, MARTIN E. .... English  
 B.A., University of Iowa; M.A., University of Denver  
 Further study: University of Southern California,  
 San Jose State College
- DUNNING, BILLIE V. .... Art  
 B.F.A., University of Southern California  
 Graduate study: University of Southern California
- FISHER, JAMES B. .... Music  
 B.A., San Diego State College  
 Graduate study: University of Rochester,  
 University of California (Los Angeles)
- FULMER, VIRGIL G. .... Industrial Arts  
 B.S., in Ed., Kansas State Teachers College  
 B.S. in Ag., Kansas State College  
 M.S. in Ed., Kansas State Teachers College
- GERING, VIOLET ..... Librarian  
 B.A., Northwestern State Teachers College (Oklahoma)  
 B.S. in L.S., University of Southern California  
 M.S. in L.S., University of Southern California
- GRIFFIN, JONELLE K. .... Physical Education  
 B.S., University of North Dakota
- HAMILTON, MAUD ..... Art  
 B.F.A., University of Southern California  
 Graduate study: Art Academy (Cincinnati)
- HAMMACK, RAY C. .... Business  
 B.S., Morehead State College (Kentucky)  
 M.A., George Peabody College for Teachers  
 Further study: University of Southern California
- HAMMOND, BURRELL F. .... Industrial Arts  
 B.A., San Diego State College

- HAMMOND, JOHN C. .... Sciences - Social Studies  
 A.B., Ohio State University  
 M.A., University of California  
 Ph.D., Ohio State University
- HINSHAW, A. JOHN ..... Dean of Men - Mathematics  
 B.S., University of Southern California  
 Graduate study: University of Southern California  
 Long Beach State College
- HONDRUM, JON O. .. Dean of Instruction - Psychology - English  
 B.S., University of Minnesota  
 M.A., Ph.D., Yale University
- JOHNSON, C. NORVAL — ..... Physical Education  
 B.S., University of Wyoming  
 Graduate study: Colorado State College
- JUCKNATH, ROY M. .... Social Studies  
 B.A., Colorado State College  
 M.A., San Jose State College
- KASER, LAWRENCE S. .... Mathematics  
 B.S., Northeastern State Teachers College (Missouri)  
 M.A., George Peabody College for Teachers  
 Further study: Whittier College
- LANG, DENNIS L. .... Music  
 B.M., University of Southern California  
 Graduate study: University of Southern California
- LOVELADY, BILL ..... Business  
 A.B., Los Angeles State College  
 Graduate study: Los Angeles State College,  
 University of Southern California
- MCCRACKEN, NETTIE B. .... Foreign Languages  
 B.A., M.A., University of Washington  
 Further study: University of California (Los Angeles),  
 University of Mexico,  
 University of France (Strasbourg)
- MENDES, JOSE O. .... Foreign Languages  
 B.A., M.A., San Jose State College  
 Further study: University of Mexico, Stanford University
- MOORE, EVALENA ..... Physical Education  
 A.B., Occidental College  
 Graduate study: University of California (Los Angeles),  
 Occidental College,  
 California State Polytechnic College

- NOVAK, RUTH V. .... English - Social Studies  
A.B., M.A., University of California (Los Angeles)  
Further study: Claremont College,  
University of Southern California
- PAULSON, CLARENCE A. .... Business  
B.S., M.A., George Peabody College for Teachers
- SHEPARD, ROBERT B. .... English  
A.B., University of Nebraska  
M.A., Butler University  
Further study: Long Beach State College,  
San Diego State College
- STEELE, C. BRUCE ..... Graphic Arts  
B.A., Santa Barbara State College  
Graduate study: Long Beach State College
- TAYLOR, MAX C. .... Physical Education  
B.S., Dickinson State Teachers College (North Dakota)  
Graduate study: San Diego State College,  
Arizona State College at Flagstaff
- TERRY, KEITH ..... Sciences  
B.S., University of Arizona
- TOBIN, CECIL J. .... Mathematics  
B.S., Northern State Teachers College (South Dakota)  
Graduate study: San Diego State College,  
University of South Dakota
- VOGEL, JOSEPH ..... Industrial Arts  
A.B., San Diego State College
- WALKER, DANIEL G. .... Social Studies  
B.A., University of Corpus Christi  
M.A., Southwestern Texas State College
- WALSH, NORRIS B. .... Engineering  
A.B., Colorado State College  
Graduate study: Colorado State College
- WATERMAN, EUGENE W. .... Director  
A.B., M.A., University of Southern California  
Further study: Oregon State College
- WEEDMARK, VIRGINIA ..... Home Economics  
B.S., John Brown University  
Graduate study: University of Arizona, Arizona State University,  
University of California (Los Angeles)

## HISTORY

The Imperial Valley College is an integral part of the public school system of California and functions as a public junior college for lower-division college work. By resolution of the Board of Trustees of Central Union High School District on May 22, 1922, the institution was established as Central Junior College. It formally opened for instruction in September, 1922, with an enrollment of twenty-two and a part-time faculty of nineteen. Initial course offerings were made in the fields of agriculture, industrial arts, social studies, humanities, mathematics, science and business education. Graduation exercises were first held in June, 1924; a total of ten received the junior college diploma. The Associate in Arts degree was first conferred in 1934.

In the fall of 1951, students, in cooperation with the administration and faculty, petitioned the board of trustees for a more representative name for the college. By action of the board the name of the college was officially changed to Imperial Valley College, thus confirming the valley-wide function of the school.

The Imperial Valley College has been in operation for thirty-seven years, and during this time has gained recognition as an accredited institution of higher education. Since its inception the institution has grown with the community, this growth reflected in the steady rise in its enrollment and the diversity of its courses and curriculums. The extended-day program was initiated on a limited basis in 1952; its rapid growth has served to extend further the college's service to the community.

## ACCREDITATION

The college is officially accredited by the Western College Association and the State Department of Education. The University of California and other colleges and universities of high rank give full credit for transfer courses completed here.

## INSTITUTIONAL AFFILIATIONS

The college is a member of the California Junior College Association and the Southern California Junior College Association.

## APPROVAL BY VETERANS ADMINISTRATION

The College is fully approved by the Veterans' Administration for training in connection with PL 894 (Vocational Rehabilitation), and PL 550 (Korean Veterans).



## PHILOSOPHY

The college accepts as its philosophy the following statement adopted by the state association:

1. The junior college is committed to the democratic way of life.
2. The junior college recognizes the individual man, under God, as the highest value of the world and universe.
3. The junior college is committed to the policy of granting to the individual man the maximum amount of freedom, personal initiative and adventure consistent with equal opportunities on the part of his fellows.
4. The junior college is committed to the policy of providing for all the children of all the people, and for all the people too, post high school education which will meet their needs. This includes the training of adults as well as the youth.

## OBJECTIVES

Believing in a system of free education at the college level for all who can profit by it, the college recognizes the following objectives as germane to its function. It recognizes further that these objectives must be subject to periodic re-evaluation in the light of the changing needs of the community.

1. **Occupational Education.** The college offers one- and two-year programs of education for job entry, occupational advancement and vocational adjustment for those students who complete their formal education in the junior college. These programs are mainly in the field of business and industrial education. Such training, while intensive, is designed not only to achieve occupational competence but also to provide opportunities to achieve civic and technical competence and personal adequacy for living.

2. **General Education.** The college believes that general education embraces those phases of learning which should be the common experience and common knowledge of educated men and women. Within this frame of reference the college provides a diversity of foundation courses that stress the individual's growth as a person and as a citizen of home, community, state, nation and world.

3. **College Education (lower division).** The college offers a complement of courses—and concomitant instruction and level of learning experience—that make possible the completion of the first two years of college education for those students who plan to transfer to a four-year college or university to continue their work in the liberal arts, sciences and professions.

4. **Special Service Education.** The college makes available several kinds of special services:

a. **Guidance**—The college provides guidance services that seek to meet the individual needs of each student by assisting him in making a wise occupational or vocational choice, by assisting him in the selection of courses leading to the ultimate realization of his educational goals, by aiding him in the solution of his personal and social problems, and by helping him in the realization of his aptitudes, capabilities and limitations. Group and individual tests are made available to each student by the guidance counselor by special appointment or at specified times during the year. Much informal counseling is done throughout the year by the faculty.

b. **Community Service**—To those members of the adult community who wish to make use of its services, the college—in cooperation with other educational agencies—offers its facilities, leadership and staff, and provides opportunities for formal and informal education leading toward personal vocational and civic adequacy. The college is attempting to meet the educational demands and needs of the community as they arise through its extended-day program of vocational and general education.

c. Under certain conditions the college provides opportunities for non-graduates of high schools to complete requirements for high-school graduation by taking appropriate courses in the college and transferring them to the high school which is to issue the diploma.

d. The college further makes available opportunities for students who wish to complete a four-year course but are deficient in the subject or grade requirements for admission to freshman standing in the institution of their choice. The removal of such shortages may be taken in connection with work which will apply on the lower-division requirements of the college or university to which they plan to transfer.

e. By special arrangement with Central Union High School, high school students of senior standing may register for certain college courses for college credit provided they have met or are meeting within the current semester all stipulated requirements for the high school diploma. Such a limited program is necessarily offered only to high school students of above-average scholastic standing for curriculum enrichment and/or acceleration purposes.

## DEGREE

The board of trustees, on recommendation of the director and faculty of the college, is authorized in accordance with

Article 12, Section 102, of the State Administrative Code, Title 5, to confer the Associate in Arts (A.A.) degree. Conditions under which the degree is granted are outlined in the section on graduation requirements.

### LOCATION

The college is situated in the city of El Centro, California, in the heart of Imperial Valley, long recognized as the richest, most productive agricultural region in the country. The campus fronts Brighton Avenue, between the 1000 and 1200 blocks on the south side of the city. Its central location makes its services available within a twenty-five mile radius to all residents of all towns and cities of Imperial Valley.

### FACILITIES

The college shares its campus with the high school, the west side of the campus being reserved primarily for the use of the college. The college building itself houses the administrative offices and college classrooms. Facilities such as the gymnasium, library, athletic field, laboratories and some classrooms are used jointly. A number of the faculty serve both college and high school.

### LIBRARY

The library, serving both college and high school, is housed in the library building, located to the southeast of the college building. The library contains approximately 12,650 volumes and subscribes to approximately 100 periodicals. Books designated primarily for college reference are regularly received.

### COURSES OF STUDY

In order that Imperial Valley College may achieve its goal of serving all students who desire to learn, three general types of programs are offered: Transfer, Vocational and Extended Day.

1. Transfer (university parallel)—The transfer curriculum is designated to meet the needs of students intending to transfer to other colleges or universities after completion of a two-year program in the junior college. Most of the pre-professional curriculums, except in a very few specialized fields, include certain basic requirements that can adequately be met by enrollment in the transfer program. However, each four-year college or university has its own established requirements; each student should check these before deciding on a final

program in order to avoid possible loss of credits at a later time. It is also possible for students having either subject or scholarship deficiencies to make them up by enrollment in the transfer program.

2. Vocational (terminal) — The vocational program is designed to fulfill the more immediate needs of students not intending to complete a four-year course of study, but who, instead, wish to take two years of college work before entering their vocation. Courses are offered in the areas of business, home economics, trades and industry, and such other general courses adapted to the needs of vocational students.

3. Extended Day — This section of the college program consists of regular college work, but offered at a time which enables residents of the community to participate while on the job. Whenever sufficient interest is evidenced, new courses may be added to meet the demand. Courses in this program carry regular lower-division college credit as do the regular day classes, and are open to full-time students as well as to adults attending college on a part-time basis.

### GUIDANCE SERVICES

While the college does not require that every student enrolled undergo extensive and formal counseling procedures, still it strongly urges that each student avail himself of the guidance services and opportunities offered. Through the services provided by the college counselor and those of other members of the staff, the student is assisted in making a wise occupational or vocational choice, and in selecting courses commensurate with his present educational goals. By special appointment or at specified times during the year, the student may undertake a battery of vocational interest aptitude and personality inventory tests which will aid him in the realization of his aptitudes, capabilities and limitations, and in the solution of his personal and social problems. The Deans of Women and Men and members of the staff are always available for informal counseling in educational, vocational, personal and social areas of concern.

### ADMISSION

Admission to Imperial Valley College is governed by the laws of the state and such supplementary regulations as prescribed by the Board of Trustees.

1. **Admission of High School Graduates.** Graduates of a four-year high school or its equivalent, who have been honorably dismissed from the school last attended, are eligible for

admission to college standing. A transcript of the secondary school record must be filed with the college registrar and evaluated by the admissions committee before admission is granted.

2. **Admission of Non-Graduates of High School.** Any other person eighteen years of age or over may apply for admission to the college. Admission in such cases is governed by the person's seriousness of purpose and whether in the judgment of the Director and admissions committee the college work will be profitable to him. Those admitted may wish to enroll in some course or courses for purposes of general education or in a specialized vocational program.

3. **Admission of Out-of-State Applicants.** Out-of-state applicants and a limited number of foreign students may be admitted provided their qualifications meet the requirements of the college. These requirements include (1) high school graduation, or eighteen years of age and educational preparation to undertake college work, and (2) evidence of abilities and aptitudes which should reasonably assure a successful academic record.

4. **Admission to Advanced Standing.** Applicants who have attended another college may be admitted with advanced standing upon recommendation of the Director and admissions committee. Before admission and advanced standing can be granted, such students must present a transcript of their high school record, together with a transcript of their college record and an honorable dismissal from the institution last attended, for evaluation.

#### **DEFERMENT OF STUDENTS UNDER SELECTIVE SERVICE REGULATIONS**

Selective Service regulations provide deferments for men in college provided they meet certain requirements. It should be understood that a deferment does not excuse a student from serving in the military, but merely defers military service until a time when he is more valuable to the service. To be eligible for a deferment, a student must make normal progress toward a degree. Normal progress means that a student should carry a minimum of fifteen units per semester and do satisfactory work in all of his classes.

Although subject to change at any time, at present a I-S deferment for a year must be given to every college student regardless of when he is ordered to induction. A II-S deferment may be granted to a student if he makes a high enough scholastic average to warrant it. A student may be privileged

to complete his four years of college work so long as he maintains the requisite scholastic average.

Students subject to the draft and desiring deferment should request that the college notify their draft boards of their attendance in school, and observe all other regulations concerning deferment. Students who need advice in this area are urged to see the Dean of Men, and will be kept informed of all changes in Selective Service regulations as they occur.

#### **EXPENSES**

Since no tuition is charged by the college, unless the student is living outside the State of California and is commuting, the only expenses incurred by the student are for books, supplies and a student-body card. These expenses are usually less than \$50 a semester, depending upon the course taken.

The student-body card, which costs \$10 per year, admits the student to all regular athletic activities of the college, either home or away, and pays for the school paper, "The Mirage," gives voting privileges and opportunity to hold office, a copy of the college annual, "The Painted Desert," and gives reduced rates at some movie theatres. Special students registered for five units or less may be excused from paying student-body dues.

#### **CLASSIFICATION OF STUDENTS**

Students are classified as follows:

- (1) Full-time: Those enrolled for 12 or more units;
- (2) Part-time: Those enrolled for 11½ units or fewer; and—
  - (1) Freshman: 0 to 27 units completed at time of enrollment;
  - (2) Sophomore: 28 or more units completed at time of enrollment, but requirements for A.A. degree or any other higher degree not completed.

#### **STATUS OF GRADUATES**

The degree, Associate in Arts, is awarded to students who fulfil a two-year organized program of college work, either of a vocational-terminal type or of a lower-division university type. Consequently, the degree does not in itself entitle a student to transfer to advanced standing in a four-year college or university. Each institution prescribes its own admission requirements. Students who wish to transfer to a higher institution must satisfy the course, unit and grade requirements of the college they wish to enter.

## SCHOLARSHIPS

A number of \$50 scholarships are available to students who attend Imperial Valley College. The donors are service organizations and individuals. The purpose of these scholarships is to give some financial assistance to worthy students desiring to continue their education. The grants are based upon factors of scholarship, citizenship, character, need, life-goals and purposes.

Application forms may be obtained at the college office or by request. While applications will be accepted until September 1st each year, usually most will be awarded by June 15th from among those received before June 1st. Further information about these scholarships may be obtained from the Dean of Men, the Dean of Women or the Director.

The American Association of University Women also offer a scholarship for \$400 for which Imperial Valley College graduates may apply.

Through the Gamma Delta Chapter of Alpha Gamma Sigma, the junior college honor scholarship society, awards varying from one hundred to five hundred dollars are available to high-ranking members of the organization. Information concerning these grants may be obtained from the adviser, Gamma Delta Chapter, Alpha Gamma Sigma.

At universities and colleges, scholarships are available for high-ranking graduates of junior colleges. In general, applications for these scholarships should be made by January 1st of the year preceding enrollment. Information and application forms may be secured from the college office.

## CLASSIFICATION OF COURSES AND CURRICULUMS

The program of instruction is divided into two classifications: university parallel (transfer) courses and vocational (terminal) courses. University parallel courses are organized and developed to duplicate courses of the same or like titles in the lower division of four-year colleges, following as nearly as possible the pattern of the University of California. These courses bear title numbers from 1 to 49, and are accepted on transfer to higher institutions for their full credit value. While intended primarily for students who wish to continue beyond the junior college level, university parallel courses are equally suited to the needs of students who come to the junior college for a two-year liberal arts course or purposes of general education.

Vocational courses are designed in content and organization to meet the needs of students who wish to prepare themselves for occupations which do not require a four-year program

of college training. Vocational courses bear title numbers from 50 to 100, and as a rule are not transferable to higher institutions except as they apply to major programs of the California state colleges.

All students enrolled in the college are subject to one standard of grading, to comparable units of credit for time spent in class and training, to equal requirements for scholarship honors, and to uniform requirements for the degree, Associate in Arts.

## TESTING PROGRAM

As an aid to counseling, a number of standardized tests are administered to full-time students in connection with their first enrollment. Special students taking fewer than eight units of work are not required to take the tests. Students transferring from other institutions may also be excused at the discretion of the Director.

Tests given include (1) an aptitude test, helpful in determining the student's capabilities for college work, and (2) an English placement test. Those students who have already taken an equivalent aptitude examination during their senior year of high school, the results of which appear either on the high school transcript or are otherwise on file in the registrar's office, may be excused from taking the aptitude test. The English placement test is designed to examine the student's ability to understand the mechanics of grammar and his reading and comprehension of written material. From the results of this test—and his previous high school record—it is possible to place the student in the English class most nearly suited to his aims and abilities.

## CHANGES IN PROGRAM OF STUDY

The filing by the student of a program of study and its acceptance by the college obligates the student to perform faithfully the work assigned to the best of his ability. No student may change his program without obtaining an official change-of-program slip from the registrar's office. He must first have the approval of the office for the change. The official slip must be signed by the instructor and returned to the office before the change becomes effective. All changes of program should be made before the end of the second week of the semester. A student should limit himself to no more than two changes in program, if at all. If more are requested, then such changes must be justified by petition. Careful attention given to program planning in the first place will obviate the necessity of making any such changes.



Grade regulations in connection with changes in program of study are as follows:

W—is recorded for withdrawal during the first six weeks of the semester.

W/P—is recorded for authorized withdrawal after the first six weeks of the semester if the instructor reports the student as doing work of at least passing grade at the time he withdraws.

W/F—is recorded for unauthorized withdrawal from a course or for neglecting attendance of a class; is also recorded if, after the sixth week of the semester, the student is reported by the instructor as doing work of failing grade at the time he officially withdraws.

### SCHEDULE LIMITATIONS

A regular program is 15 or 16 units, plus physical education. To be eligible for deferment under Selective Service, a student should take a minimum of 15 units per semester. The maximum load for any new student is 16½ units; exceptions will be made only by special permission of the Director. After the first semester, a student may petition to carry more units, up to a maximum of 18½, but only if during the preceding semester he received an average of 3.0 for each unit of credit in a total program of 12 or more units. No student should attempt a full program if he has a heavy outside work program or is not in good health. Instead, such a student is urged to undertake a part-time study program.

### AUDITING

A student may audit a class with the permission of the instructor. No credit is allowed for courses audited. A course begun on an auditing basis cannot be changed to a credit basis. No student regularly enrolled in a class for credit will be permitted to become an auditor in that class after the sixth week of the semester.

### SCHOLARSHIP GRADES

Grades are based upon the quality of work done, that is, upon actual accomplishment in courses offered for credit. Grades showing the standing of students are issued at the end of each semester. Mid-semester grades are of a preliminary nature only, are recorded for the use of the registrar and staff, and are made known to the student only if a deficiency exists. The meaning of each grade is as follows:

- A Excellent; denotes marked initiative and originality as well as superior ability for independent thinking.
- B Above average; denotes ability to perform accurately and promptly the task assigned.
- C Denotes average ability.
- D Barely passing; denotes little or no initiative in performing the tasks assigned.
- F Failure: indicates that the work has been wholly unsatisfactory, and that no credit will be given save upon repetition of the entire course.
- Inc. Incomplete; denotes that for some reason beyond the student's control, some work of the class has been omitted or was unsatisfactory, and that credit will be withheld until the work is made up. Removal of an incomplete establishes whatever grade is warranted, so long as the work is made up before the end of the sixth week of the following semester; otherwise, the final grade is automatically recorded as an "F."
- W Withdrawn from the course within the first six weeks of the semester.
- W/P Withdrawn from the course with a passing grade at the time the student is officially authorized to withdraw.
- W/F Withdrawn from the course with a failing mark; automatically given if the student does not withdraw from the class under the official regulations listed under the heading, "Changes in Program of Study."

### GRADE POINTS

Grade points, per semester unit, are assigned as follows:

- A 4 grade points per unit
- B 3 grade points per unit
- C 2 grade points per unit
- D 1 grade point per unit
- F 0 grade points per unit
- Inc. 0 grade points per unit; changes automatically to "F" if not made up within time limitations set.
- W 0 grade points per unit; units not charged against the student.
- W/P 0 grade points per unit; units not charged against the student.
- W/F 0 grade points per unit; units are charged against the student.



## MINIMUM SCHOLARSHIP REQUIREMENTS

**Warning.** At mid-semester a check is made to determine the scholarship status of every student in attendance. If a student's record is found to be "noticeably unsatisfactory," he is placed on warning. "Noticeably unsatisfactory," may result from any one of the following conditions:

1. A grade average of "D" or less.
2. A grade of "F" in two or more subjects.
3. Neglect in attendance of classes in general.
4. Lack of serious interest in work undertaken.

**Probation.** A student on warning will be placed on probation if he fails to make required improvements by the end of the semester or such other time as may be stipulated. Probation is entered on the student's permanent record. If placed on probation, a student may not register for more than the normal course load and may be limited in terms of course load should the scholarship committee so recommend.

## REMOVAL OF WARNING OR PROBATIONARY STATUS

Warning status is automatically removed, if at the end of the semester, the student so placed in that status at mid-term achieves a "C" grade average for that semester.

Probationary status for scholastic deficiency is removed upon the student's demonstration of ability to achieve a "C" average for the following semester's class work.

## DISMISSAL

A student on scholastic probation may be subject to dismissal should he fail to regain a satisfactory status. If in the judgment of the committee on admissions dismissal is warranted, the student will be declared ineligible on grounds of scholastic deficiency to register for the next term's work. If a student is on probation for two successive semesters, he will be dropped from the college roll for one semester. Before a student is dismissed, he is given the opportunity to state personally to the committee on admissions any conditions which in his judgment entitle him to continue in attendance. Re-admission after dismissal is subject to action by the committee on admissions and is in a probationary status.

Students who enter the college from other schools and whose transcripts point to unsatisfactory scholarship will automatically be placed in a probationary status.

## WITHDRAWAL FROM COLLEGE

If it becomes necessary for a student to withdraw from the college before the end of a semester, he may obtain an honorable dismissal by making application to the Director. When the application is accepted, the student is entitled to a "W/P" in each course in which he is certified by his instructor as doing work of passing grade and to "honorable dismissal" recorded on his permanent record. A course in which a student is failing at the time he withdraws will be recorded as "W/F."

If a student withdraws unofficially from the college without attending to the regulations cited above, a "W/F" will be automatically recorded for each course.

## REPETITION OF COURSES

A student who receives a grade of "D" or "F" in a course may, upon repetition of that course, receive the grade assigned by the instructor and the grade points appropriate to that grade. A course may not be repeated more than once. Duplicate credit will not be granted upon repetition of a course in which a student has already received a passing grade. Grades of "C" and "B" may not be raised by repeating the course.

## ATTENDANCE

The college has no system of free cuts; therefore regular attendance at all classes and assemblies is expected of all students enrolled. Compliance with the following attendance regulations is expected:

### Excused and Authorized Absences

1. A student who has been absent because of illness is expected voluntarily to present written verification of illness to the registrar's office and secure an excuse for presentation to instructors whose classes he has missed.

2. A student who must miss one or more classes in order to go on a field trip or represent the college in an athletic or other school event is automatically excused; rosters of students representing the college at various functions at various times are sent to each instructor from the college office.

### Other Absences

Since the college issues no absence excuses except for illness or authorized activities, other absences will be handled as follows:

1. Instructors are expected to reduce grades of students who incur unjustifiable absences.

2. Neglect in attendance of classes in general may result in the student's being placed on warning.

3. After being placed on warning for absenteeism, other absences will automatically place the student on probation, or he may be asked to withdraw from the college, or be recommended for dismissal, as the case may warrant.

### PHYSICAL EDUCATION

State law requires that every physically able student regularly attend a physical education class each semester of attendance.

Exemptions from this requirement may be granted for the following reasons only:

- (1) Physical disability
- (2) Age, twenty-five years or over
- (3) Graduate standing or completion of requirement for graduation
- (4) Enrollment in 8 or fewer units
- (5) Full-season participation in an intercollegiate sport

Exemption on grounds of physical disability will be granted only upon evidence of a statement from a physician. Those applying for exemption for reasons other than physical disability must present suitable evidence at the time of their registration.

### RESIDENCE REQUIREMENTS

The residence of a student who is under twenty-one years of age is that of his father and/or his mother if father is not living; or, if neither is living, of his guardian.

Students who are twenty-one years of age or over and students whose paternal home is out of the state are for attendance accounting classified as residents of the high school district in which they temporarily reside.

Residents of any part of the state not included in another junior college district who meet entrance requirements will be admitted upon filing the credentials described under Admission Requirements. Applicants from another California district maintaining a junior college cannot be admitted unless they have been granted an inter-district agreement.

### SCHOLARSHIP HONORS

Temporary membership in Alpha Gamma Sigma, California Junior College Honor Society, is awarded at the close of

each semester to ten per cent of the student body who meet the following qualifications:

1. Completion of no fewer than 12 units of work, exclusive of physical education.
2. A grade-point average of 3.0 in all subjects undertaken except physical education.
3. No grade lower than a "C," including physical education.

The total number awarded temporary membership can not exceed ten per cent of the student body.

Permanent membership is awarded to members of the second-year class who meet the following qualifications:

1. Temporary membership in Alpha Gamma Sigma any three out of four, or four out of five, semesters attendance.
2. Completion of all requirements for the Associate in Arts degree.
3. A grade-point average of 3.3 or better.

The total number awarded permanent membership can not exceed ten per cent of the graduating class. Permanent membership may be extended to students who took one or more full semesters of their work at another accredited college and whose scholarship record there measured up to Alpha Gamma Sigma requirements. If more than ten per cent of the class meets the above qualifications, factors such as service and leadership will be taken into consideration in making the final selection.

### GRADUATION HONORS

"Honorable Mention" is granted to those graduates who achieve a grade-point ratio of 3.0 (B) in their college work.

"With Distinction" is accorded those graduates who in the course of their entire college work have achieved a grade-point ratio of 3.5 or better.

### GRADUATION

#### Requirements for the Degree of Associate in Arts

The degree, Associate in Arts, is granted upon the completion of 62 units of work and the fulfillment of the following specific requirements:

1. Statutory Requirements, prescribed by the State Board of Education:

- (a) Satisfactory accomplishment in the mastery of English, 6 units.
  - (b) Physical education, ½ unit per semester of attendance, or until other graduation requirements are met.
  - (c) Hygiene and health education, including first aid and safety education, 2 units.
  - (d) United States history and government, including state and local governments, 6 units.
  - (e) Major in a field of study, 20 units.
2. Additional Course Requirements:
    - (a) Core units selected from at least 2 departmental groups not in the major field, 9 units.
    - (b) Orientation, 1 unit; required of all students in regular-day attendance, beginning with the class of 1961.
    - (c) Electives sufficient to make the total at least 62 units.
  3. Scholarship Requirements:
    - (a) The student must have a grade point average of at least 2.0; that is, he must maintain an average of "C."
  4. Residence Requirement:
    - (a) The student must have completed at least the last semester in residence.

#### **Courses Acceptable in Fulfillment of Requirements for the Degree**

1. The requirement in English may be satisfied by completing one of the following course sequences:
  - (a) Subject A and English 1a.
  - (b) English 1a and English 1b.
  - (c) English 51a and English 51b.
  - (d) Business 63a-63b plus English 15 or Speech 1a or 1b.
2. The requirement in hygiene and health education is met by successful completion of Physical Education 2, Hygiene and Health Education.
3. The requirement in United States history and government is satisfied by successful completion of History 7a, U. S. History; History 17a, U. S. History to 1876; or History 17b, U. S. History since 1876; and History 7b, U. S. Government.
4. A major field consists of at least 20 units in one of the following departmental groups:
  - (a) English and Foreign Language.

- (b) History and Social Science.
  - (c) Mathematics and Natural Science.
  - (d) Business.
  - (e) Industrial Arts
  - (f) Humanities
  - (g) Fine Arts
5. Core units, at least 9 in number, may be selected from at least two of the following department groups, so long as they are not in the major field:
    - (a) Humanities (art, music, literature, drama).
    - (b) Social Science, excepting History 7a, History 7b, History 17a and History 17b.
    - (c) Mathematics.
    - (d) Natural Science.
    - (e) Business.
    - (f) Industrial Arts.
    - (g) Family Life Education.
    - (h) Foreign Language.
  6. The requirement in orientation is met by Orientation 1.

#### **TRANSCRIPTS**

One transcript of credits is furnished free to the student at his first request. Thereafter, a fee of fifty cents is charged for each additional transcript requested.

#### **THE SPIRIT OF THE CAMPUS**

The student body changes, but the spirit of the campus endures. The spirit of the campus is one of democracy, friendliness, interest in the individual, opportunity for all. It opposes all cliques, snobbery, deception and coarseness, whether on the campus, in the classroom, or in social relationships. The key to good campus citizenship is to guard its spirit and seek to give it an all-campus significance and meaning. By these means basic values and qualities are preserved and extended into the daily experience of students.

#### **STUDENT AFFAIRS**

The committee on student affairs exercises the authority of Imperial Valley College over all students individually and with respect to personal conduct and, with the exception of athletic teams, over student organizations and affairs.

All social events given by college organizations or in the name of Imperial Valley College must first have the approval of the Director, and be planned in cooperation with the proper committee.

## STUDENT COUNCIL AND BEHAVIOR

In the government of Imperial Valley College, the largest liberty consistent with good work and good order is allowed. Students are expected to show both within and without Imperial Valley College such attention to duty and respect for order, morality, personal honor and the rights of others, as is demanded of good citizens. Failure to observe these duties will be considered sufficient cause for dismissal from the college.

## ASSOCIATED STUDENT BODY

Student affairs are governed by the Associated Students of Imperial Valley College. An Executive Board, consisting of president, vice-president, secretary, treasurer, commissioner of athletics, commissioner of public relations, commissioner of social activities, commissioner of halls and grounds, and representatives, one each, from the sophomore women, the sophomore men, the freshmen women, the freshmen men, Associated Women Students and Associated Men Students. The Dean of Men is the official adviser.

Membership dues of \$10.00 per year are collected by the student body treasurer at the time of registration. Membership in the Associated Student Body affords the student an opportunity to participate in all sports and intercollegiate contests. It provides admission to most regularly scheduled athletic events, the college play, certain social affairs, and subscriptions to "The Mirage," the campus newspaper and the "Painted Desert," the college annual.

Most theatres in the Valley honor these cards for admission at junior prices. Other discounts are available to card holders, including about a 10% saving on books in the student store.

## STUDENT ACTIVITIES

Student life at the college includes many activities besides those connected with courses of study. Some students are socially inclined and find an opportunity for the development of their interest in clubs and the social affairs of the year. A wide assortment of opportunities of this nature is available. Others are interested in athletics and physical development; for these there is a variety of intercollegiate sports. Still others may be interested in music, publications, or student government, in all of which are opportunities for participation under faculty guidance and cooperation.

However, to be eligible for any school office or any intercollegiate contest or conference, a student:

- (1) Must be passing in at least 10 units of work for athletics

at the time of such extra-curricular activity and in at least 12 units to be eligible for any student government position.

2. If in college six weeks or more any preceding semester must have completed and passed in at least 10 units of work during that preceding semester.

## ATHLETICS

The college is a member of the South Central Junior College Conference, consisting of Antelope Valley (Lancaster), Oceanside-Carlsbad, Palomar (San Marcos), Palo Verde (Blythe), Santa Barbara and Imperial Valley. The conference itself belongs to the California State Junior College Association. Athletic competition is held in football, basketball, track, golf, tennis and baseball. Trophies are awarded in the winning school in each sport.

## ATHLETIC ELIGIBILITY

Conference eligibility rules provide that to participate in interscholastic sports, the student:

- (1) Must have begun regular attendance not later than one month after the beginning of the semester.
- (2) Must be doing passing work in at least 10 units of work, in addition to physical education (if required), at the time the certified list in which he is a member is issued.
- (3) After the first semester of attendance, must have passed in at least 10 units, in addition to physical education (if required), in his last semester of attendance.
- (4) Must be in good standing, meaning that he must not be on probation.
- (5) Unless a bonafide resident, must be enrolled one year before he is eligible for participation, if he has attended another junior college in California, or is a graduate of a high school of another district maintaining a junior college.
- (6) Must be a high school graduate, or at least 19 years of age.

These regulations are subject to change by conference officials, and by the California Junior College Association.

## STUDENT ORGANIZATIONS

### A.M.S.

The A.M.S., or Associated Men Students, composed of all men students, carries on a number of projects during the year,



the most important being the traditional "Turkey Trot" at Thanksgiving and the "Slum Feed" during the spring for all high school senior boys of Imperial Valley.

### Delta Sigma Chi

The Associated Women Students have long had the Greek letters, "Delta Sigma Chi," for their organization. Among the annual activities of this group are the Christmas formal, the spring style show, and a mother-daughter luncheon. Membership in this organization is automatically conferred on all women students.

### Kappa Iota Kappa

This organization was developed to fill the need for a service club within the college. Its purpose is to help other students and the college wherever the need may arise. Membership is based upon the ability and desire to be of service to Imperial Valley College.

### Alpha Gamma Sigma

Alpha Gamma Sigma, the California junior college honor society, is represented by Gamma Delta chapter at I.V.C. Specific requirements for eligibility in this organization are outlined under the heading, "Scholarship Honors."

### Arab Club

Membership in this organization is limited to lettermen.

### Arab Chorus

The mixed chorus sings for colleges, assemblies, service clubs and civic groups throughout the Valley, and in the spring presents assemblies for the various Valley high schools. A Christmas program and a big spring concert are important projects. It also appears at baccalaureate and commencement.

### The Mirage

"The Mirage" is the college paper. Printed bi-weekly, it publishes articles and news items about college activities and affairs, and is the project of the journalism class.

### The Painted Desert

"The Painted Desert" is the descriptive title of the college annual. It highlights with pictures and words the year's activities and becomes a cherished memento in future years.

## STUDENT LOUNGE

The student lounge provides a place for relaxation and study during the day and often for meetings of clubs and organizations. It houses the college bookstore, and maintains a sandwich bar there.

## SUGGESTED COURSES

The following type courses are listed as guides to students both in vocational curricula and those preparing for junior standing in higher institutions. It should be understood that changes can be made to suit the individual student's program. Students who expect to transfer to higher institutions should check carefully to determine that they meet both lower division requirements and the pre-major requirements of the university.

### BUSINESS ADMINISTRATION

First Semester	Units	Second Semester	Units
Orientation .....	1	Eng 1b .....	3
Eng 1a .....	3	Bus 17 .....	2
Bus 16 .....	2	Geog 2 .....	3
Geog 1 .....	3	Phys Ed 2 .....	2
Bus 18a .....	3	Bus 14b .....	3
Bus 14a .....	3	Bus 18b .....	3
Speech 1a .....	2	Phys Ed 1b .....	1/2
Phys Ed 1a .....	1/2		
	<hr/>		<hr/>
	17 1/2		16 1/2

Third Semester	Units	Fourth Semester	Units
Econ 1a .....	3	Econ 1b .....	3
Psych 1a .....	3	Psych 1b .....	3
Hist 17a or 17b .....	3	Hist 7b .....	3
Bus 23 .....	3	Bus 34 .....	3
Elective .....	3	Bus 2 .....	3
Phys Ed 1c .....	1/2	Phys Ed 1d .....	1/2
	<hr/>		<hr/>
	15 1/2		15 1/2

### LIBERAL ARTS

First Semester	Units	Second Semester	Units
Orientation .....	1	Eng 1b .....	3
Eng 1a .....	3	For Lang .....	4
For Lang .....	4	Hist 7b .....	3
Hist 17a or 17b .....	3	Elective .....	3
Phys Ed 2 .....	2	Hist 10b or 8b .....	4 or 3
Hist 10a or 8a .....	4 or 3	Phys Ed 1b .....	1/2
Phys Ed 1a .....	1/2		
	<hr/>		<hr/>
	16 1/2/17 1/2		16 1/2/17 1/2

Third Semester	Units	Fourth Semester	Units
Psych 1a .....	3	Psych 1b .....	3
Science .....	3 or 4	For Lang .....	4
For Lang .....	4	Soc 1b, or Anthro 1b .....	3
Soc 1a or Anthro 1a .....	3	Hum 1b, Eng 13b, or Eng 44b .....	3
Hum 1a, Eng 13a, or Eng 44a .....	3	Science .....	3 or 4
Phys Ed 1c .....	1/2	Phys Ed 1d .....	1/2
	<hr/>		<hr/>
	16 1/2/17 1/2		16 1/2/17 1/2



**PRE-LEGAL**

First Semester	Units	Second Semester	Units
Orientation .....	1	Eng 1b .....	3
Eng 1a .....	3	For Lang .....	4
For Lang .....	4	Soc 1b .....	3
Soc 1a .....	3	Hist 7b .....	3
Hist 17a or 17b .....	3	Elective .....	3
Phys Ed 2 .....	2	Phys Ed 1b .....	1/2
Phys Ed 1a .....	1/2		
	<u>16 1/2</u>		<u>16 1/2</u>

Third Semester	Units	Fourth Semester	Units
Speech 1a .....	2	Speech 1b .....	2
For Lang .....	4	For Lang .....	4
Psych 1a .....	3	Psych 1b .....	3
Bus 18a .....	3	Bus 18b .....	3
Science .....	3 or 4	Science .....	3 or 4
Phys Ed 1c .....	1/2	Phys Ed 1d .....	1/2
	<u>15 1/2/16 1/2</u>		<u>15 1/2/16 1/2</u>

**PRE-OPTOMETRY**

First Semester	Units	Second Semester	Units
Orientation .....	1	Eng 1b .....	3
Eng 1a .....	3	Chem 1b .....	3
Chem 1a .....	3	Chem 1bL .....	2
Chem 1aL .....	2	Hist 7b .....	3
Hist 17a or 17b .....	3	Math 1 .....	3
Math C .....	3	Elective .....	3
Phys Ed 1a .....	1/2	Phys Ed 1b .....	1/2
	<u>15 1/2</u>		<u>17 1/2</u>

Third Semester	Units	Fourth Semester	Units
Physics 2a .....	3	Physics 2b .....	3
Physics 2aL .....	1	Physics 2bL .....	1
Bio Sci 1a .....	4	Bio Sci 1b .....	4
Speech 1a .....	2	Phys Ed 2 .....	2
Psych 1a .....	3	Psych 1b .....	3
Phys Ed 1c .....	1/2	Phys Ed 1d .....	1/2
Math 3a .....	3	Math 3b .....	3
	<u>16 1/2</u>		<u>16 1/2</u>

**PRE-TEACHING—ELEMENTARY**

First Semester	Units	Second Semester	Units
Orientation .....	1	Eng 1b .....	3
Eng 1a .....	3	Hist 7b .....	3
Hist 17a or 17b .....	3	Science .....	3 or 4
Science .....	3 or 4	Ed 10 .....	2
Phys Ed 2 .....	2	Hum 1b, Eng 13b, Eng 44b, or For Lang .....	3 or 4
Hum, 1a, Eng 13a, Eng 44a, or For Lang .....	3 or 4	Phys Ed 1b .....	1/2
Phys Ed 1a .....	1/2		
	<u>15 1/2/17 1/2</u>		<u>14 1/2/16 1/2</u>

Third Semester	Units	Fourth Semester	Units
Geog 1 .....	3	Geog 2 .....	3
Speech 1a .....	2	Speech 1b .....	2
For Lang or Elective .....	4	For Lang or Elective .....	4
Psych 1a .....	3	Psych 1b .....	3
Hist 8a or 10a .....	3 or 4	Hist 8a or 10a .....	3 or 4
Phys Ed 1c .....	1/2	Phys Ed 1d .....	1/2
	<u>15 1/2/16 1/2</u>		<u>15 1/2/16 1/2</u>

**PRE-TEACHING—SECONDARY**

First Semester	Units	Second Semester	Units
Orientation .....	1	Eng 1b .....	3
Eng 1a .....	3	Hist 7b .....	3
Hist 17a or 17b .....	3	Science .....	3 or 4
Science .....	3 or 4	For Lang .....	4
Phys Ed 2 .....	2	Ed 10 .....	2
For Lang .....	4	Elective .....	2
Phys Ed 1a .....	1/2	Phys Ed 1b .....	1/2
	<u>16 1/2/17 1/2</u>		<u>17 1/2/18 1/2</u>

Third Semester	Units	Fourth Semester	Units
Speech 1a .....	2	Speech 1b .....	2
Psych 1a .....	3	Psych 1b .....	3
*Hist 8a or 10a .....	3 or 4	*Hist 8b or 10b .....	3 or 4
For Lang .....	4	For Lang .....	4
Electives in Major Field 3 or 4	3 or 4	Electives in Major Field 3 or 4	3 or 4
Phys Ed 1c .....	1/2	Phys Ed 1d .....	1/2
	<u>15 1/2/17 1/2</u>		<u>15 1/2/17 1/2</u>

\*or Soc 1a or Anthro 1a

\*or Soc 1b or Anthro 1b

## PRE-ENGINEERING

First Semester	Units	Second Semester	Units
Orientation .....	1	Chem 1b .....	3
Chem 1a .....	3	Chem 1bL .....	2
Chem 1aL .....	2	Math 3b .....	3
Math 3a .....	3	Engr 2 .....	3
Eng D .....	3	Physics 4a .....	4
Engr 5 .....	1	Phys Ed 1b .....	1/2
Phys Ed 2 .....	2		
Elective .....	2		15 1/2
Phys Ed 1a .....	1/2		
	17 1/2		

It is recommended that pre-engineering students who have met all the entrance requirements for college and for subject matter, transfer at the end of the year in order to avoid loss of time in the completion of the engineering program. If all entrance requirements have not been met, or if prerequisites are needed to take certain courses, these may be taken care of before the above program is completed.

## PRE-MEDICAL—PRE-DENTAL

Students who wish to enter pre-medical and pre-dental and similar curricula should carefully consult the catalog of the college or university where they expect to continue their work, to determine the particular courses required. It is also possible for students who may have subject deficiencies from high school to make up in Imperial Valley College. Most students in these fields will probably do best for their second and following years to enter their university.

## PRE-NURSING

First Semester	Units	Second Semester	Units
Orientation .....	1	Eng 1b or 51b .....	3
Eng 1a or 51a .....	3	Chem 2b .....	3
Chem 2a .....	3	Chem 2bL .....	1
Chem 2aL .....	1	Bio Sci 22 .....	3
Bio Sci 21 .....	3	Hist 7b .....	3
Hist 17a or 17b .....	3	Elective .....	3
Elective .....	2	Phys Ed 1b .....	1/2
Phys Ed 1a .....	1/2		16 1/2
	16 1/2		
Third Semester	Units	Fourth Semester	Units
Psych 1a .....	3	Psych 1b .....	3
Bio Sci 1a .....	4	Bio Sci 1b .....	4
H. Ec. 23a .....	2	H. Ec. 23b .....	2
Phys Sci 10a .....	3	Phys Sci 10b .....	3
Elective .....	3	Elective .....	3
Phys Ed 1c .....	1/2	Phys Ed 1d .....	1/2
	15 1/2		15 1/2

## TECHNICAL ENGINEERING

First Semester	Units	Second Semester	Units
Orientation .....	1	Eng 51b .....	3
Eng 51a .....	3	Engr 1b .....	2
Math C .....	3	Ind Arts 53b .....	2
Engr 1a .....	2	Hist 7b .....	3
Ind Arts 53a .....	2	Phys Ed 2 .....	2
Hist 17a or 17b .....	3	Elective .....	3
Engr 5 .....	1	Phys Ed 1b .....	1/2
Phys Ed 1a .....	1/2		15 1/2
	15 1/2		
Third Semester	Units	Fourth Semester	Units
Phys Sci 10a .....	3	Phys Sci 10b .....	3
Engr D .....	3	Engr D .....	3
Ind Arts 57a .....	2	Ind Arts 57b .....	2
Ind Arts 50a .....	2	Ind Arts 50b .....	2
Bus 73a .....	3	Bus 73b .....	3
Elective .....	2	Elective .....	2
Phys Ed 1c .....	1/2	Phys Ed 1d .....	1/2
	15 1/2		15 1/2

## SECRETARIAL

First Semester	Units	Second Semester	Units
Orientation .....	1	Bus 63b .....	2
Bus 63a .....	2	Bus 3b .....	2
Bus 3a .....	2	Bus 4b .....	3
Bus 4a .....	3	Phys Ed 2 .....	2
Bus 71 .....	2	Bus 73b .....	3
Bus 73a .....	3	Bus 17 or Econ 41 .....	2
Bus 16 .....	2	Elective .....	2
Phys Ed 1a .....	1/2	Phys Ed 1b .....	1/2
	15 1/2		16 1/2

Third Semester	Units	Fourth Semester	Units
Bus 67 .....	2	Elective .....	2
Bus 18a .....	3	Bus 18b .....	3
Bus 72a .....	3	Bus 72b .....	3
Hist 17a or 17b .....	3	Hist 7b .....	3
Bus 61 .....	2	Eng 15 or Speech 1a .....	2
Bus 51a .....	2	Bus 51b .....	2
Soc 35a .....	2	Soc 35b .....	2
Phys Ed 1c .....	1/2	Phys Ed 1d .....	1/2
	17 1/2		17 1/2

## ACCOUNTING

First Semester	Units	Second Semester	Units
Orientation .....	1	Eng 1b or 51b .....	3
Eng 1a or 51a .....	3	Bus 3b or 51b .....	2
Bus 3a or 51a .....	2	Bus 73b .....	3
Bus 73a .....	3	Bus 18b .....	3
Bus 18a .....	3	Psych 50 .....	2
Bus 61 .....	2	Elective .....	3
Bus 67 .....	2	Phys Ed 1b .....	1/2
Phys Ed 1a .....	1/2		
	16 1/2		16 1/2

Third Semester	Units	Fourth Semester	Units
Econ 1a .....	3	Econ 1b .....	3
Hist 17a or 17b .....	3	Hist 7b .....	3
Bus 71 .....	2	Phys Ed 2 .....	2
Bus 14a .....	3	Bus 14b .....	3
Speech 1a .....	2	Speech 1b .....	2
Elective .....	3	Elective .....	3
Phys Ed 1c .....	1/2	Phys Ed 1d .....	1/2
	16 1/2		16 1/2

## MERCHANDISING

First Semester	Units	Second Semester	Units
Orientation .....	1	Bus 63b .....	2
Bus 63a .....	2	Bus 18b .....	3
Bus 18a .....	3	Bus 3b or 51b .....	2
Bus 3a or 51a .....	2	Bus 17 .....	2
Bus 16 .....	2	Hist 17a or 17b .....	3
Hist 17a or 17b .....	3	Bus 34 .....	3
Bus 23 .....	3	Phys Ed 1b .....	1/2
Phys Ed 1a .....	1/2		
	16 1/2		15 1/2

Third Semester	Units	Fourth Semester	Units
Econ 1a .....	3	Econ 1b .....	3
Bus 61 .....	2	Econ 41 .....	2
Geog 1 .....	3	Geog 2 .....	3
Bus 73a .....	3	Bus 73b .....	3
Bus 67 .....	2	Electives .....	4
Speech 1a .....	2	Phys Ed 1d .....	1/2
Phys Ed 1c .....	1/2		
	15 1/2		15 1/2

## BOOKKEEPING

First Semester	Units	Second Semester	Units
Orientation .....	1	Bus 63b .....	2
Bus 63a .....	2	Bus 3b .....	2
Bus 3a .....	2	Bus 73b .....	3
Bus 73a .....	3	Bus 18b .....	3
Bus 18a .....	3	Bus 17 .....	2
Bus 16 .....	2	Phys Ed 2 .....	2
Bus 61 .....	2	Elective .....	2
Phys Ed 1a .....	1/2	Phys Ed 1b .....	1/2
	15 1/2		16 1/2

Third Semester	Units	Fourth Semester	Units
Bus 67 .....	2	Bus 51b .....	2
Bus 51a .....	2	Hist 17a or 17b .....	3
Bus 71 .....	2	Bus 14b .....	3
Hist 17a or 17b .....	3	Electives .....	8
Bus 14a .....	3	Phys Ed 1d .....	1/2
Eng 15 or Speech 1a .....	2		
Elective .....	2		
Phys Ed 1c .....	1/2		
	16 1/2		16 1/2

**GENERAL EDUCATION AREAS**

**SAN DIEGO STATE COLLEGE**

**I.V.C. EQUIVALENT**

**SOCIAL SCIENCES (9-12)**

Hist 17a-17b, 172a-172b  
 Pol Sci 71a-17b, 139a-139b  
 Anthro 1, 2  
 Econ 1a-1b  
 Geog 1, 2  
 Hist 4a-4b  
 Hist 8a-8b  
 Soc 1, 10  
 Soc 35  
 Soc 135

**SOCIAL SCIENCES**

Hist 7a, 17a-17b  
 Hist 7b  
 Anthro 1a-1b  
 Econ 1a-1b  
 Geog 1, 2  
 Hist 10a-10b  
 Hist 8a-8b  
 Soc 1a-1b  
 Soc 35a-35b  
 Soc 35a-35b

**NATURAL SCIENCES (9-12)**

Bio 1  
 Astron 1  
 Astron 9  
 Geol 1, 2  
 Phys Sci 1, 2  
 Physics 2a-2b  
 Physics 3a-3b  
 Chemistry 2a-2b  
 Zool 50, 51

**NATURAL SCIENCES**

Bio Sci 11  
 Astron 1a  
 Astron 21  
 Geol 1, 2, 1L  
 Phys Sci 10a-10b  
 Physics 2a-2b  
 Physics 2aL-2bL  
 Chemistry 2a-2b, 2aL-2bL  
 Bio Sci 1a-1b

**LITERATURE, PHILOSOPHY AND  
 THE ARTS (6-12)**

Eng 2  
 Eng 50a-50b  
 Eng 52a-52b  
 Hum 138, 170  
 Art A, B  
 Mus 7a-7b  
 Mus 9a  
 Mus 51  
 Mus 88  
 Ind Arts 85  
 H Ec 3, 15

**LITERATURE, PHILOSOPHY AND  
 THE ARTS**

Eng 1b  
 Eng 13a-13b  
 Eng 44a-44b  
 Hum 1a-1b  
 Art 6a-6b  
 Mus 7a-7b  
 Mus 8a  
 Mus 3a-3b  
 Mus 9a-9b  
 Graph Arts 61a-61b  
 H Ec 23a-23b

**COMMUNICATION (5-8)**

Speech Arts 1, 3  
 Eng 1

**COMMUNICATION**

Speech 1a-1b  
 Eng 1a

**PSYCHOLOGY (3-6)**

Psych 1  
 Psych 12

**PSYCHOLOGY**

Psych 1a-1b  
 Psych 50

**PHYSICAL AND HEALTH  
 EDUCATION (4-4)**

Phys Ed  
 H Ed 21

**PHYSICAL AND HEALTH  
 EDUCATION**

Phys Ed 1a-1b-1c-1d  
 Phys Ed 2

**MATHEMATICS (0-6)**

Math 1  
 Math 2  
 Math 3  
 Math 4  
 Math 40  
 Math 50, 51

**MATHEMATICS**

Math X  
 Math Y  
 Math A  
 Math C  
 Math 1  
 Math 3a-3b

**FOREIGN LANGUAGES (0-6)**

French 1, 2  
 French 3, 4  
 Span 1, 2  
 Span 3, 4

**FOREIGN LANGUAGES**

French 1a-1b  
 French 2a-2b  
 Span 1a-1b  
 Span 2a-2b

**FAMILY LIFE EDUCATION (0-6)**

H Ec 3, 15  
 Soc 35  
 Soc 135  
 Bus Adm 158

**FAMILY LIFE EDUCATION**

H Ec 23a-23b  
 Soc 35a-35b  
 Soc 35a-35b  
 Econ 41

## COURSES OF INSTRUCTION

Courses corresponding to those of the University of California are designated by the same numbers used by the university.

The semester credit value of each course is indicated by a number in parenthesis following the title of the course; the semester in which the course is given is indicated as follows: I, first semester only; II second semester only; Yr., throughout the year.

### AGRICULTURE

Courses in Agriculture are at present discontinued because of lack of adequate enrollment. If interest in this important field increases to the extent that will make it feasible, I.V.C. will again offer two years of agricultural training with the emphasis upon Imperial Valley agriculture.

#### 20 Field Crops (3)

A study of the important field crops of California, as well as the field crops, common cultural practices, harvesting methods and marketing practices in the Imperial Valley. Two one-hour lectures and one two-hour laboratory period per week.

#### 21A-21B Market Beef Production (2-2)

A course designed to familiarize the student with the practices in the area and state on fattening beef cattle. Includes breeds, feeds and feeding, selecting and judging of beef cattle, management of feed yards, equipment, diseases and parasites of cattle, marketing, brands and branding, and range production. Study of cattle operations carried on at the school farm; field trips to local yards. One lecture and one two-hour laboratory period per week.

#### 22 Cereal Crops (3)

A study of the distribution, cultural practices, varieties and uses of rice, corn, wheat, barley and oats; grain grading; diseases; storage and marketing. Emphasis on a working knowledge of the cereal crops and common cultural, harvesting, grading and marketing practices in the Imperial Valley.

#### 23 Forage Crops (3)

A course designed to develop skills and fundamentals as well as knowledge in the growing and management of forage crops in the Imperial Valley and California. Practice in the growing of these crops is given at the school farm. Two one-hour lectures and one two-hour laboratory period per week.

#### 24 Commercial Truck Crop Production (3)

A study of the major truck crops grown on a commercial scale in California, with emphasis placed on those grown in the Imperial Valley. Soil preparation, seed selection, cultivation, irrigation practices, crop rotation varieties and production costs in the field are considered. Actual practice in field operation is available on the school farm as well as observation of commercial practices through field trips in the area. Two one-hour lectures and one two-hour laboratory period per week.

#### 28 Entomology (2)

A general course for beginners. Characteristics of the principal orders are studied, with emphasis on the life histories, habits and controls of those insects attacking crops in the Imperial Valley. Other economically important insects are considered as well. Lectures, laboratories, field trips. Three hours per week.

#### 31 Farm Surveying (2)

Selection, care and use of tapes and levels. Farm methods of land measurement and leveling, ditch and tile line grades. Emphasis is placed on land leveling. One one-hour lecture and one two-hour laboratory period per week.

#### 32 Swine Production (2)

A study of market and breed types of swine, swine production in the United States with emphasis on Imperial Valley. Skills will be practiced on the herd at the school farm. One one-hour lecture and one two-hour laboratory period per week.

#### 35 Soils (3)

Physical, chemical and biological properties of soils as related to agricultural practices.

#### 36 Sheep Production (3)

A study of western sheep operations, fitting breeds to varying sheep enterprises and locations; basic requirements of successful management; practical knowledge of wool; jobs in the industry. Emphasis will be placed on fattening sheep for market.

#### 41A-41B Agricultural Mechanics (3-3)

Basic mechanical skills important to agriculture. Concrete work, pipe work, rope work, sheet metal, cold metal working and forging together with the selection and proper use of tools, materials and equipment involved. Five hours per week.



**42A-42B Farm Machinery (3-3)**

Basic principles of machines, lubrication and maintenance. Selection, operation and adjustment of planting, harvesting, cultivating and pest control equipment. Five hours per week.

**ART****6A-6B Fundamentals of Art (3-3) (2-2 E.D.) Yr.**

Designed to provide a sound background in the elements of art and to introduce basic concepts and techniques. Essentials of composition and design, color, history of art, perspective, water color and life drawing: Five or three hours per week.

**11A-11B Jewelry and Silversmithing (2-2 E.D.) Yr.**

A course designed to provide practice and instruction processes of hand-wrought metal. Both beginning and advanced work is included, as problems are based on individual student needs. Jewelry making and stone setting are taught, as well as the making of large utility pieces. Soldering, carving, engraving, forging and raising demonstrated. Three hours per week.

**16A-16B Advanced Art Fundamentals (3-3) (2-2 E.D.)**

A course designed to provide practice and instruction beyond the elementary stages in techniques and methods of presentation. Included are advanced figure drawing from life; composition and still life in water color, tempera and black and white media; oil painting techniques; and art history. Pre-requisite: Art 6A-6B or equivalent. Five or three hours per week.

**21A-21B Advanced Metal Working (2-2 E.D.) Yr.**

For students who have completed 11A-11B or equivalent. Students will be required to do more complex projects, using a variety of advanced techniques. Students should plan to do at least one project which will require forming, sinking or raising. Three hours per week.

**22A-22B Commercial Art (2-2)**

A survey of the techniques of rendering and presentation of newspaper layouts, advertisements, posters, brochures as used in commercial art. Many types of materials and methods will be used to give the student a knowledge of the numerous tools available to him, and the effects they achieve. Lettering and design will also be included as a necessary part of individual problems. Lab fee for supplies. Not offered in 1959-1960.

**BUSINESS****2 Mathematics of Finance (3) II**

A foundation course for the mathematics involved in annuities, depreciation, bonds, perpetuities, life insurance, and other problems in finance. Usually required of majors in business administration. Parallels U.C. Math. 2. Prerequisites: Two years of high school algebra or Math. 1.

**3A-3B Elementary Typewriting (2-2) Yr.**

This course provides a thorough training in basic typewriting skill, instruction and practice in complete cycle of business uses and rapid development of a complete command of the keyboard by the touch method. Five hours per week.

**4A-4B Stenography (3-3) Yr.**

This is a course in Gregg Simplified Shorthand designed to develop skill in reading and writing shorthand. Upon completion of this course, students should be able to take dictation at 60 to 80 words per minute and transcribe it accurately. Pre-requisite: Typing. Five hours per week.

**14A-14B Elements of Accounting (3-3) Yr.**

A course in beginning accounting procedures designed to satisfy transfer requirements and provide a solid foundation for advanced work in accounting and business administration. The work involves classification and recording of debit, credit, special journal control accounts, manufacturing accounts. Preparation of work sheets, posting in the ledger, and other work given. This course requires at least six hours per week out-of-class preparation. Previous knowledge of bookkeeping may be helpful but not essential.

**16 Introduction to Business (2) I**

This course is designed to provide a background of understanding of our business system as a whole and will serve as a basic beginning college course for students specializing in business subjects. The content will include the topics dealing with the nature of business, ownership, finance, personnel, and other such items.

**17 Business Management (2) II**

The course deals with the manner in which business operates, how it is managed and how it is financed. It deals with problems of organizing a business, merchandising problems, financial problems, and other related items concerning business.

**18A-18B Business Law (3-3) Yr.**

This course traces briefly the early beginning of certain rules of conduct which later become embodied as Contract, Negotiable Instruments, Sales, Bailments, Insurance Agency, Partnerships, Corporations, Real Property, Wills and Bankruptcy. Problems to be worked out follow explanations and discussions in every chapter. One of the main objects of the course is to make the student aware not only of the correct method of procedure in business relations, but also of the pitfalls of carelessness and ignorance of the law.

**21 Principles of Real Estate (3) I**

An analysis of the basic elements which guide policy in the real estate field; principles and policies in regard to marketing, developing, financing, appraising, managing and subdividing urban property; major influences affecting city locations and growth; the function of governmental and private institutions and agencies in the use of urban and rural land.

**23 Salesmanship (3) I**

Fundamentals of selling are presented with particular emphasis on retail selling. The course is presented as an exact science based on tried and proven formulas which will bring positive results in today's competitive field of selling.

**24A Auditing (3)**

A course in advanced accounting for Public Accountants working toward C.P.A. Offered if in sufficient demand.

**34 Retail Merchandising (3) II**

This course is based more or less upon the assumption that the student will some day want to go into the retailing business for himself. The course helps the student learn how to find a good location, how to organize his store, how to buy and how to move his merchandise. The latter requires a good knowledge of the fundamentals of advertising upon which there is a strong emphasis.

**41 Principles of Insurance (3)**

A course in the philosophy and fundamental principles of the various fields of insurance. Course material covers the basic provisions of insurance offered by commercial companies to businesses and individuals. Social insurance offered by governmental agencies may be surveyed.

**51A-51B Advanced Typewriting (2-2) Yr.**

An advanced course in typing for those students who wish to increase their speed and accuracy in office work. The course includes various types of business letter writing, legal forms, typing from manuscript and simple filing. Five hours per week.

**54A-54B Intermediate Accounting (3-3)**

A two-semester course designed to meet the needs of both those students taking only one course beyond accounting principles and those students planning to continue toward a major in accounting. Accounting terminology, preparation of statements, inventories, investments, income taxes and accounting for corporation stock conversion and re-capitalization are part of the course content. Previous knowledge of bookkeeping is required and it is recommended that the student has had elementary accounting.

**61 Business Mathematics (2) I, II**

Simple fundamentals of business arithmetic are used to compute percentage, cash and trade discounts, markup, commissions, depreciation, stock turnover, payrolls, interest and bank discount. A requirement for the major in business, this course may be waived if the student passes a special test.

**63A-63B Business Correspondence (2-2) Yr.**

This course is geared to meet the needs of business personnel. First semester stresses grammatical sentence structure, effective style, spelling and proofreading. Second semester emphasizes letter form and style, the psychology of the sales letter, letters of complaint and adjustment, credit and collection, job application, and the business report.

**67 Machine Calculation (2) I, II**

A course for training on, and operation of, machines used in the business office. It includes participation in drills and problems emphasizing accurate and rapid operation of Ten-Key Adding Listing Machines, Full-Key Adding Listing Machines, Rotary Calculators, Key-Driven Calculators, Burroughs Bookkeeping Machine, Dictaphone, and Stencil and Hectograph Duplicators. Five hours per week.

**71 Income Tax (2) I**

An elementary course in computation of income tax, use of forms and some of the less complex computations. Tax regulations are studied and students are taught to prepare returns.

**72A-72B Advanced Stenography (3-3) Yr.**

This is an advanced course in Gregg Shorthand and transcription designed to fit students for business positions. Upon completion of this course students should be able to take dictation at 100 to 120 words per minute and transcribe accurately. Prerequisite: Net speed of not less than 35 words per minute in typing; dictation speed of 60 words per minute at end of Shorthand I; English average of "C" or better. Five hours per week.

**73A-73B Elementary Bookkeeping (3-3) Yr.**

A course designed to meet the needs of practical bookkeeping in single proprietorship, partnership, and corporation. Work is given in journalizing, posting, trial balance and preparation of financial reports. Preparation of the payroll and income tax, and other practical work is included. Not open to students with credit in high school bookkeeping.

**75 Investments (3)**

A course in the fundamentals of investment, including operation of the investment market, stocks and bonds, real estate ownership, buying and selling of various kinds of investments, and other related fields.

**82A-82B Office Practice**

A course designed to give practical work in various aspects of office work including filing, dictaphone, phone operation, duplication and others. Time and credit by arrangement.

**EDUCATION**

**10 Instruction to Education (2) I, II**

An orientation course for prospective teachers or those interested in teaching. A survey of teaching needs, methods and procedures is given, such as aims and objectives of education, control and organization of education, financing, requirements for teaching, teacher placement and opportunities, the nature of learners, curriculum and guidance, and school materials. Classroom discussion and problems are combined with field work and observations of actual teaching situations.

**ENGINEERING**

**D Engineering Drawing (3)**

This course is designed to give a thorough knowledge of theory, to train in accuracy and technique, and to lay a solid foundation for advanced work. Five hours per week.

**1 Mechanical Drawing (2-2) Yr.**

Introduction to drafting practice and blue print reading. Instruction is given in the use and care of instruments, lettering, geometrical figures, projection and machine design. This course is designed for students who have not had high school mechanical drawing. Five hours per week.

**1A-1B Civil Engineering (3-3) Yr.**

Plane surveying; adjusting and use of surveying instruments, computations and map making, together with a study of the land, topographic, city, mining, and hydrographic surveying. Equivalent to Civil Engineering 1A-1B at the University of California. Two lectures, one three-hour field period per week. Prerequisites: Trigonometry and Mechanical Drawing.

**2 Descriptive Geometry (3) II**

The fundamental principles of descriptive geometry and their application to engineering problems. Prerequisite: Engineering drawing, trigonometry, solid geometry, and analytic geometry. The last, Math 3A, may be taken concurrently. Six hours per week.

**5 Slide Rule (1) I, II**

Theory and operation of the Log-Log Trig Duplex Slide Rule as an aid to solving of problems in mathematics and engineering. Two hours per week.

**ENGLISH**

**1A Composition (3) I, II**

The introductory course in reading and composition, including the elements of composition, reading for speed and comprehension, the mechanics of writing and research writing. The writing of a weekly theme is required. Prerequisite: Passing Subject A examination.

**1B Introduction to Literature (3) I, II**

An introductory course designed to acquaint the student with the various types of literature — essay, narrative, biography, short story, poetry and drama — with further training in research writing technique. Prerequisite: English 1A.

**1A-1B Elementary Speech (2-2) Yr.**

To help the student develop ability and poise in speaking before groups of people. In 1A emphasis is on extemporaneous and original speaking, involving research and effective organization of material. 1B includes organization

and delivery of persuasive, after-dinner, courtesy, and inspirational speeches. Informal group discussion forms are studied and given considerable practice. Radio speech is included also. Voice and dictation improvement through individual analysis, drill and recording, is one of the main aims of this course.

**2A-2B Advanced Speech (2-2)**

A continuation of 1A-1B for second year students who desire further work in this line. In order to be accepted into the class there must be a recommendation by the instructor. Offered only if in sufficient demand.

**10A-10B History and Technique of Drama (3-3) Yr.**

A survey course designed to stimulate an interest in drama and allied art forms through the study of the history of theatre, dramatic literature, and techniques of production, including some emphasis on lighting, stagecraft, directing, and interpretation of dramatic roles. Not offered in 1959-1960.

**11A-11B Dramatic Production (3-3) Yr.**

An exploratory course in which students will be given the opportunity to discover their own aptitudes in various aspects of the drama, and dramatic production, including analysis of plays, acting, technical assistance and development of backstage skills. Not offered in 1959-1960.

**13A-13B American Literature (3-3)**

A comprehensive course designed to stimulate interest and appreciation through historical survey, study of major authors, study of literary types, and examination of the development of significant ideas. The first semester covers the American literary scene up to the Civil War; the second semester emphasizes the novelists and contemporary fiction.

**15 Vocabulary Building (2) I, II**

A practical course designed to widen the student's command of words and to increase his word-building proficiency by an extensive study of word origins; roots, stems, prefixes, suffixes, meanings, and special uses.

**20A-20B Advanced Dramatics (3-3) Yr.**

Student-directed one-act plays, advanced studies in acting, and individual projects, including making of miniature stages, form the content of this course. Prerequisite: Dramatics 10A-10B and permission of the instructor. Offered only if in sufficient demand.

**44A-44B World Literature (3-3) Yr.**

A survey course of the masterworks of western world literature. During the first semester the works of Homer, Aeschylus, Sophocles, Euripides, Plato, Virgil, Plutarch, Dante, Chaucer, Rabelais, Montaigne and Cervantes will be studied. During the second semester representative authors covered will be Shakespeare, Milton, Moliere, Racine, Swift, Voltaire, Rousseau, Goethe, Tolstoy, Ibsen and Mann.

**51A-51B English Fundamentals (3-3) Yr.**

This course is designed to meet the needs of those not planning to undertake a four-year college course. Emphasis is placed upon learning to speak effectively, spell correctly, and write intelligibly practical, nontechnical, everyday English. The first semester covers the fundamental essentials of grammar, reviewed remedially for purposes of composing articulate sentences. The second semester places stronger emphasis on writing. Improvement in reading speed and comprehension and vocabulary building are also stressed.

**61A-61B Library Practice (Credit by Arrangement)**

Practice in the clerical aspects of Library Science, including circulation of all library materials, ordering, cataloging and withdrawing of books and other library materials; an introduction to reference work and the making of bibliographies. The course requires one hour of daily practice work in the library and outside preparation. The ability to type is a prerequisite.

**67 Subject A (3)**

Remedial work in spelling, grammar, sentence structure and punctuation. (Transfers to the University of California and most of the colleges must pass the university examination in Subject A or complete Subject A with a grade of "C" or better.) Students who maintain a grade of A will be permitted to withdraw and be given credit for passing Subject A.

**70A-70B Publications Workshop (2-2) Yr.**

Experience in practical newspaper writing through participation in the editing of the college newspaper, "The Mirage"; experience in the editing of the college annual, "The Painted Desert." Good scholastic standing, ability and desire to be of service to the college are requirements for this course.



## FOREIGN LANGUAGES

### French

#### 1A-1B Elementary French (4-4) Yr.

An introductory course intended to give the student a reading and speaking acquaintance with the language. Abundant use of written and oral exercises with systematic training in pronunciation. Five hours per week.

#### 2A-2B Intermediate French (4-4) Yr.

Review of grammar. Oral and written composition. Reading of French classics. Outside reading with reports. Prerequisite: French 1A-1B or three years of high school French. Five hours per week.

### Spanish

#### 1A-1B Elementary Spanish (4-4) (3-3 E.D.) Yr.

An introductory course with special emphasis on pronunciation and fundamentals of grammar. An ability to read simple prose will be required. Five or three hours per week.

#### 2A-2B Intermediate Spanish (4-4) (3-3 E.D.) Yr.

Thorough review of elementary grammar. Composition and conversation. Study of subjunctive. Collateral reading and reports. Prerequisite: Spanish 1A-1B or three years of high school Spanish. Five or three hours per week.

#### 10A-10B Advanced Spanish Composition and Conversation (3-3) Yr.

A review of grammar, composition and conversational practices. Course is designed for those desiring further preparation in the language and for those desiring greater facility in the practical use of the language. Prerequisite: Spanish 4, or consent of instructor.

## GRAPHIC ARTS

#### 51A-51B Printing (2-2) Yr.

An elementary course which takes up the fundamental operations of typesetting in straight composition, proofing, imposition, punctuation, etc. Type and type faces are studied. Press work is also done. Five hours per week.

#### 61A-61B Photography (2-2) Yr.

A laboratory course in the field of beginning photography. The course includes optics, nature of light and image formation, exposure and development, contact and projection printing and related fields. Not offered in 1959-1960.

## HOME ECONOMICS

#### 23A Foods and Nutrition (2) I

Fundamentals of nutrition; promotion and maintenance of health and efficiency through desirable food selection, habits and practice. Nutritional principles applied to food preparation and meal preparation. Open to pre-nursing students. Four hours per week.

#### 23B Clothing and Textiles (2) I

Commercial patterns and their adaption; fitting and construction. Selection and care of textiles. Wardrobe planning and buying practices. Four hours per week.

#### 34A-34B Textiles, Clothing and Tailoring (3-3) Yr.

Commercial patterns and their adaption; fitting, designing and construction. Selection and care of textiles. Wardrobe planning and buying practices. Six hours per week. Not offered in 1959-1960.

## HUMANITIES

#### 1A-1B Introduction to the Humanities (3-3 E.D.) Yr.

A general education course designed to acquaint the student with our western cultural heritage and the values it can contribute to his personal life, as drawn from the reservoirs of philosophy, history and the fine arts. Basic consideration will be given to the nature of man, the nature of human freedom, the nature of the world, the nature of human institutions, and the cultural-epoch theory of change.

## INDUSTRIAL ARTS

### MECHANICS AND METALS

#### 53A-53B Machine Shop (2-2) Yr.

Elementary practice and theory in working iron, steel and non-ferrous metals. Designed to give practical experience in using hand tools on bench work and operation of power hacksaw, drill presses, lathes and shapers. Five hours per week.

#### 54A-54B Machine Shop (2-2) Yr.

Theory and practice in the operation of machine tools and advanced bench work. Designed to give the student practical theory and practice in working ferrous and non-ferrous metals on lathes, mills, shapers and surface grinders. Some elementary gunsmithing is included. Five hours per week.



**55A-55B Machine Shop (2-2 E.D.) Yr.**

Problems in working iron, steel and non-ferrous metals in bench work, lathe, mill, shaper, surface grinder, tool grinding and general machine shop practice. Course will include both theory and practice. Three hours per week.

**56A-56B Advanced Machine Shop (2-2 E.D.) Yr.**

Advanced theory and practice in the operation of machine tools and advanced bench work. Use of machine tools in constructing student's own projects is encouraged. Elementary gunsmithing optional to those interested. Prerequisite: I.A. 55A-55B. Three hours per week.

**57A-57B Metal Shop (2-2) Yr.**

A course in the use and working of sheet metal and related fields. Topics include: Use of tools, basic welding, soldering, brazing, threading and tapping, introduction to foundry work. Five hours per week.

**61A-61B Transportation (2-2) Yr.**

A course involving the care and maintenance of school buses and problems concerning transportation of pupils. Limited to students driving buses or preparing for driving buses.

**WOODWORK**

**50A-50B General Woodshop (2-2) Yr.**

A practical course designed to develop an appreciation and recognition of high workmanship, ability to read and understand drawings, and manipulative dexterity in the handling of hand and power tools. Five hours per week.

**51A-51B Cabinet Making and Carpentry (2-2 E.D.) Yr.**

A course specializing in the safe use and operation of woodworking machines, wood finishing, and fine furniture construction. Three hours per week.

**MATHEMATICS**

**X Beginning Algebra (3) I**

An accelerated course for those who do not have high school credit in algebra or who have an algebra deficiency. This is a basic algebra through quadratics. Five hours per week. Prerequisites: None.

**Y Plane Geometry (3) I**

For those students who do not have high school credit in geometry, or those who need an accelerated extensive review of basic geometry as a preparation for advanced work in mathematics or science. Three hours per week. Prerequisite: Algebra X or its equivalent.

**A Intermediate Algebra (3) I**

Reviews basic algebra, then continues into more difficult types of factoring, solutions of equations, radicals, exponents, complex numbers, binomial expansion, logarithms, and conic sections. Emphasis also is placed on the application of algebra in solving problems. Prerequisites: Math. X and Y, or their equivalents. Three hours per week.

**C Plane Trigonometry (3) I**

This course is designed for pre-engineering students as well as the liberal arts students who major in mathematics. Parallels U.C. Math. C. Prerequisite: Math. Y and A, or Math. I taken concurrently.

**G Solid Geometry (3) II**

Prerequisites: Math. Y and A, or equivalents. Parallels U.C. Math. G. Offered if in sufficient demand.

**I College Algebra (3) I**

Review of advanced algebra plus determinants, theory of equations, conic sections, permutations and combinations, progressions. Prerequisites: Math. A and C, or equivalents. Parallels U.C. Math. I.

**3A-3B Analytic Geometry and Calculus (3-3) Yr.**

Combined course in analytic geometry and calculus studying basic principles of limits, differentials, derivatives and integration with application to practical problems. The straight line and conics are studied in connection with problem solving. Prerequisites: Two years high school algebra or Math. 1, plane geometry and plane trigonometry. Parallels U.C. 3A-3B.

**51 Mathematics Review**

A review of arithmetic. Not offered in 1959-1960.

**MUSIC**

**3A-3B History and Appreciation of Music (3-3) Yr.**

A study of the important composers and their works. Purpose of the course is to develop an understanding of various types of music from different eras as a medium of cultural development as well as a background toward further musical study.

**7A Music Fundamentals (3) I**

Preparation for study of music structure. Designed to equip the student to sing, play at the keyboard, write and recognize scales, intervals and basic rhythmn. Prerequisite: Some facility at the keyboard.

**7B Music Materials for the Elementary Teacher (3) II**

Study of all phases of elementary school music: singing, listening, reading, creative music, instruments, repertoire of songs and records, and music projects. Prerequisite: Music 7A.

**8B Elementary Harmony (3)**

Diatonic usage studied through written exercises, keyboard harmony, analysis, dictation and sight singing.

**9A-9B-9C-9D Mixed Chorus (1½-1½-1½-1½) Yr.**

Open to students who have good singing voices and ability to read music. Three hours per week.

**27A-27B Band (2-2)**

Students who play a band instrument are eligible. Members are expected to be present at public performances.

**50A-50B Musical Drama Workshop (2-2 E.D.) Yr.**

The planning, preparation, staging and presentation of musical dramas, operettas or light operas. At least one major production will be presented each semester. Three hours per week.

**55 Applied Music**

One unit credit per semester will be given on the basis of one 30-minute lesson and five hours practice per week, and a satisfactory grade on a semester examination given by the head of the music department. Maximum credit allowed—three units per semester.

**PEACE OFFICERS TRAINING SCHOOL**

This school was established in El Centro in the spring of 1955 as a cooperative program with the Imperial Valley College working with the State Department of Education and the Imperial County Peace Officers' Association.

The course consists of 218 class hours of work, and college credit is granted for completion or partial completion of the course.

Attendance is open to regularly employed peace officers, both men and women, and such auxiliary or reserve police officers or the Sheriff, Chief of Police, or other law enforcement head designated.

**PHYSICAL EDUCATION**

**1A-1B-1C-1D Physical Education for Men (½-½-½-½) Yr.**

Required of all men students and for graduation; exemptions from this requirement are listed in the General Regulations section. Designed to give the student an introduction to fundamental physical skills and to introduce him to phases of team and individual games. Included are volleyball, basketball, touch football, soccer, softball, tennis, dancing (folk, square and modern), and five events in track and field. Two hours per week.

**1A-1B-1C-1D Physical Education for Women (½-½-½-½) Yr.**

Required of all women students and for graduation; exemptions from this requirement are listed in the General Regulations section. Designed to stimulate the development of mental and physical alertness and poise, and to encourage regular participation in a variety of competitive and recreational sports. Two hours per week.

**2 Hygiene and Health Education (2) I, II**

A practical study of personal and community health. The course includes sections on first aid. A required course for graduates.

**3 Combined Standard and Advanced First Aid (2) I, II**

The purpose of this combined course in First Aid is to provide students with knowledge and skills for emergency help of the injured until arrival of a physician.

**21 Community Recreation (3)**

This course covers the general principles of organization and direction of recreation activities, including a study of psychology of play, outdoor skills pertaining to recreational activities, operation and maintenance of facilities, and program planning for community activities. Not offered in 1959-1960.

**22 Individual and Group Sports (3) I**

A digest of basic skills in sports for beginners who have little or no knowledge of a sport or sports and for those beyond the beginner level who wish to improve performance.

**27 Games of Low Organization (2) II**

This course covers the classification, principles of organization, technique and practice in teaching games relays, stunts and rhythmic suitable for playground, gymnasium and outing groups of all ages.

- 31 Football (1)**  
Theory and practice of competitive football. Limited to students trying out for varsity teams.
- 32 Basketball (1)**  
Theory and practice of basketball. Limited to students trying out for varsity team.
- 33 Track (1)**  
Theory and practice of track. Limited to students trying out for varsity team.
- 34 Baseball (1)**  
Theory and practice of baseball. Limited to students trying out for varsity team.
- 41 Officiating (2)**  
Includes the study of rules and their interpretation. Special emphasis on the mechanics of officiating will be given. Primary concentration on basketball and football but also including track and field, baseball and tennis. Actual game situations will be set up to allow practice in the art of basketball officiating. This course is an invaluable aid to persons desiring to get into actual officiating of interscholastic sports in this or other areas.

## S C I E N C E S

### BIOLOGICAL SCIENCES

**1A-1B General Zoology (4-4) Yr.**

A study of the fundamentals of living organisms of the animal kingdom. This course is planned to meet the general needs of students not majoring in science but at the same time includes sufficient laboratory work to meet the requirements of those contemplating professional courses in medicine, nursing and allied fields where college zoology is specified. Three hours of lectures and three hours of laboratory per week.

**11 Biological Survey (3) I, II**

A survey course in the biological sciences designed to give the student an overall view of the field and enough factual matter to enable him to determine his aptitudes and future choice of courses in biology. A non-laboratory general education course in the area of natural science. Not open to those with previous college credit in any biological science.

**21 Human Anatomy (3) I**

An introductory course designed to give the student a basic understanding of the structure of the human body; covers the skeletal, muscular, nervous, arterial and venous, and reproductive systems.

**22 Human Physiology (3) II**

An introductory general course in human physiology. Functions of the body activities are considered with reference to mechanism employed in response to environment.

### PHYSICAL SCIENCES

**A Elementary Physics (4) Yr.**

For those without entrance credit in physics. Three hours in recitation and two hours in the laboratory per week. Four units credit for the year. No credit for one semester only.

**1 Physical Geology (3) I**

An introduction to the physical characteristics of the earth—composition, origin and distribution of the materials in the earth's surface, and the laws involved in their development.

**2 Historical Geology (3) II**

An account of the salient features of earth history with attention directed primarily to the nature of physical conditions and the record of life during the geologic history of the North American continent.

**1L-2L Geology Laboratory (1-1) Yr.**

The laboratory course to accompany Geology 1 and Geology 2.

**1A-1B Elementary Astronomy (3-3)**

An introduction to astronomy; the place of the earth in the known universe; the tools and methods of astronomy; properties of stars; the sun, moon and planets; concepts of the order of the universe and its uniformity.

**2A-2B General Physics (3-3) Yr.**

Properties of matter, mechanics, heat, wave motion and sound—first semester. Electricity, magnetism and light—second semester. Meets the requirements for pre-medical and pre-dental students. Prerequisites: Two years of algebra, plane geometry and trigonometry.

**2AL-2BL General Physics Laboratory (1-1) Yr.**

The laboratory course to accompany Physics 2A-2B.

#### 4A Physics (4)

Mechanics and the properties of matter. Prerequisites: Two years of algebra, plane geometry, trigonometry, Math. 3A. For engineering students and majors in physics. Three hours of lectures and one three-hour laboratory per week. (U.C. 4A.) Not offered in 1959-1960.

#### 10A-10B Physical Science (3-3)

An introductory course presenting the nature of man's physical universe. The course content is chosen from the fields of astronomy, physics, geology and chemistry, with emphasis on general education. This course will partially satisfy the state college requirements in natural science.

#### 51 Basic Electricity (3)

An elementary course in the fundamentals of direct current and alternating current. The course will concern itself with the basic laws and principles of electricity with a minimum of mathematics. Not offered in 1959-1960.

#### 53A-53B Basic Electronics (3-3)

An elementary course in basic electronics. This course covers the fundamentals of basic electricity, theory of vacuum tubes and circuit analysis as associated with elementary radio receivers and transmitters. Not offered in 1959-1960.

#### 21 Astronomy Observation (1)

A laboratory course in elementary astronomy designed to better acquaint the student with some of the commonly-known constellations and stars, some of the basic principles involved in astronomical instruments, and the principle involved in star maps. Three hours per week.

### CHEMISTRY

#### A Elementary Chemistry (4) Yr.

For those without entrance credit in chemistry. Two hours recitation and three hours in the laboratory per week throughout the year. Four units credit for the year. No credit for one semester only.

#### IA-1B General Inorganic Chemistry (3-3) Yr.

A course in general and theoretical chemistry extending throughout the year. Required for Engineering, all branches; Chemistry, Medicine and Dentistry majors. Prerequisite: High school chemistry or physics.

#### 1AL-1BL Inorganic Chemistry Laboratory (2-2) Yr.

A laboratory course to accompany Chemistry 1A-1B. The first semester is concerned with general chemistry laws, principles and reactions and the second semester is qualitative analysis.

#### 2A-2B Introductory Chemistry (3-3) Yr.

A course in general college chemistry for the non-chemistry major. A general course covering elementary inorganic, organic and biological chemistry. Not open to students with credit in Chem. 1A-1B. Not offered in 1959-1960.

#### 2AL-2BL Introductory Chemistry Laboratory (1-1) Yr.

The laboratory course to accompany Chemistry 2A-2B.

### SOCIAL STUDIES

#### ANTHROPOLOGY

##### 1A Physical Anthropology (3) I

An introductory course on man's biological heritage, his origin and antiquity; races of man; racial theories, past and present.

##### 1B Cultural Anthropology (3) II

Social institutions in primitive and civilized societies; races; rise of political institutions; growth of native civilizations; material culture; social organization; religion; language.

#### ECONOMICS

##### 1A-1B Principles of Economics (3-3) Yr.

The basic course for majors in any economic field; explains the basic facts of economic life in order to prepare for understanding of the problems of the major economic groups and their interactions, and current political problems, both domestic and international.

##### 41 Consumer Economics (2) II

A study of the management of personal finances, budgets, savings, insurance, buymanship.

#### GEOGRAPHY

##### 1 Physical Geography (3) I

An introductory course stressing the atmosphere, climate weather, water, soils and landforms, with map interpretation, examples and correlated applications to various places and situations.



## **2 Cultural Geography (3) II**

A continuation course stressing the major regions of the earth and their population, including their chief cultural characteristics as language, religion, ethnic background, economy and institutions. The interrelationship between cultural conditions and physical controls is emphasized, and the continuity of thought from physical to cultural geography is shown.

### **HISTORY**

## **3 United States Constitution (2)**

The fundamental nature of the American constitutional system and of the ideals upon which it is based. This course will satisfy the California State Board of Education's requirements for a Constitution course necessary to obtain a regular teaching credential.

## **7A History of the United States (3 E.D.) I**

A survey course of American history. Lectures, discussions, required readings and reports. Designed to meet state requirements in U. S. History and for graduation.

## **7B United States Government (3) I, II**

A study of the Federal Constitution and the Federal Government. It also includes units on State and local government. Designed to meet California State requirements in this field. Required for graduation.

## **8A-8B Hispanic-American Civilization (3-3) Yr.**

A broad survey course of the political, social and cultural history of the Hispanic world of Mexico, Central and South America. The first semester covers the colonial period, the second the national. Strongly recommended as a collateral course in conjunction with Spanish 1A-1B or Spanish 2A-2B.

## **10A-10B History of Western Civilization (4-4) Yr.**

A survey of the principal ideas of mankind as revealed in the outstanding writings in the fields of philosophy, history, religion and literature. This course is designed to meet educational needs and for transfer to those institutions requiring a background of modern civilization.

## **17A United States History to 1876 (3) I, II**

American history from the voyages of discovery to the end of the Reconstruction period. Satisfies the three-unit requirement for graduation.

## **17B United States History Since 1876 (3) I, II**

American history from the withdrawal of federal troops from the South to the present. Satisfies the three-unit requirement for graduation.

## **43 Contemporary World Affairs (2) I, II**

Current problems and issues confronting the major political powers of the world since World War II, with particular reference to various socio-economic and cultural areas of concern.

### **PSYCHOLOGY**

## **1A-1B General Psychology (3-3) Yr.**

An introductory course designed to acquaint the student with the basic vocabulary, methodologies, established facts and principles of psychology; to supply information to make a more effective personal-social adjustment; to build an attitude of open-minded inquiry into all phases of human behavior and experience.

## **50 Personal and Social Adjustment (2) I, II**

Principles of human behavior and personality development; application of these principles to daily living. Causes of emotional insecurity; adjustment to frustration; mental health; social and personality needs that motivate human behavior. Recommended for terminal students and as a general education course.

### **SOCIOLOGY**

## **1A-1B Principles of Sociology (3-3) Yr.**

An introduction to the study of human beings in their group relations: culture, culture groupings, influences of biology and geography, personality as defined and influenced by society, the nature of institutions, the individual, and the organization and disorganization of culture.

## **35A Family Life Education (2) I, II**

This course seeks to develop a wholesome approach to marriage and family relations. Discussion develops the principles of dating, courtship, marriage and the first few years of married life. Problems relating to the economic problems of the family will be discussed. Discussion, lectures, readings.



### 35B Family Life Education (2) I, II

This course deals more specifically with the problems of marriage. Lectures and discussions and readings cover material concerning economic problems, insurance, divorce, religion, social living, family life in the world today, and the problems of being parents.

#### ORIENTATION

##### 1 Orientation (1) I, II

An introduction to college life. Designed to facilitate adjustment to college, with lectures and discussions on such topics as study habits, use of library, note taking, reading improvement, preparation for and writing examinations, research papers, etc. Some educational and vocational planning and provisions for self-appraisal through standardized tests and inventories. Required of all freshmen and for graduation.

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