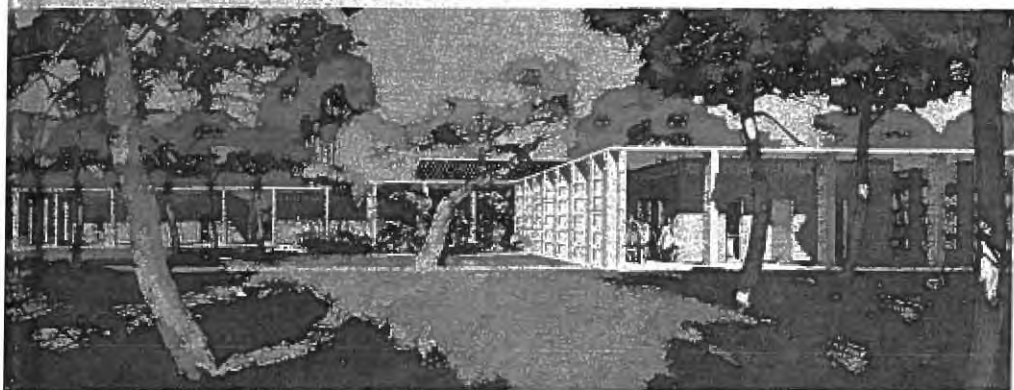


# IMPERIAL VALLEY COLLEGE

1964-1965



**GENERAL  
CATALOG**

# IMPERIAL VALLEY COLLEGE

1964-1965

## ANNOUNCEMENT OF COURSES

IMPERIAL JUNIOR COLLEGE DISTRICT

Highway 111 and Ira Aten Road

IMPERIAL, CALIFORNIA - 92251

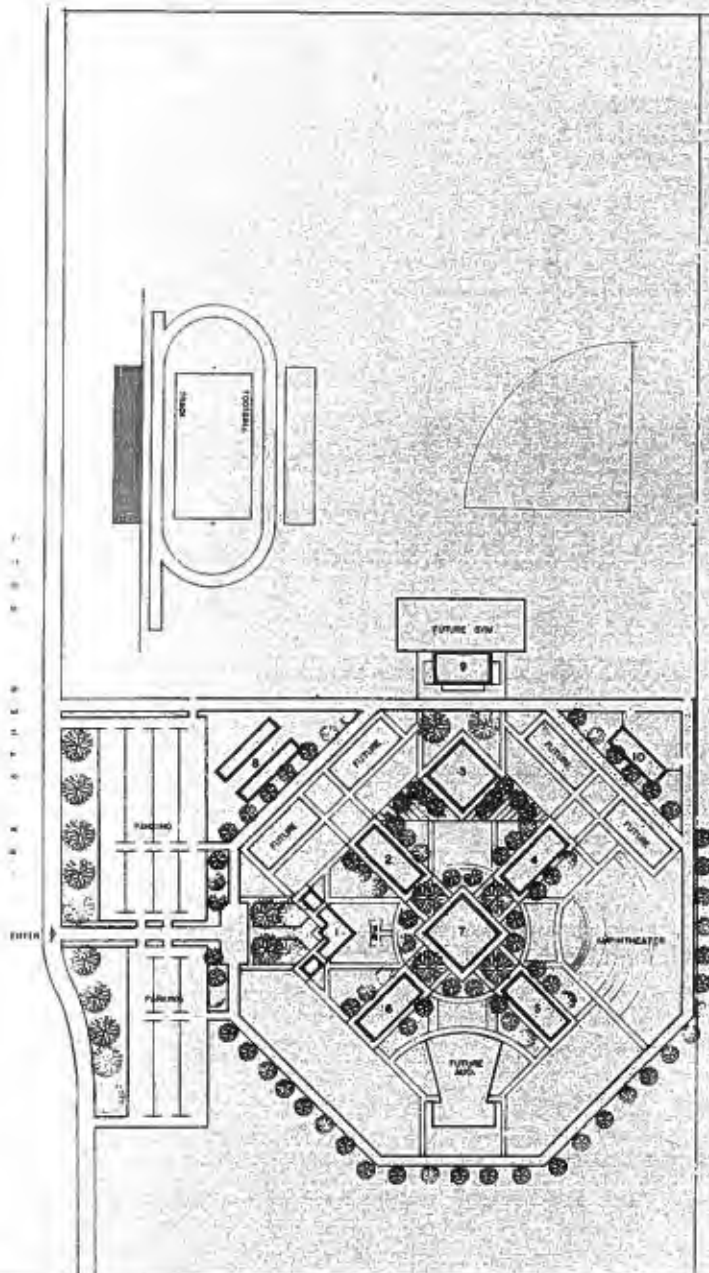
Phones: 355-1193 or 352-8320

IMPERIAL COUNTY, CALIFORNIA

**GENERAL  
CATALOG**

**BUILDINGS**

- 1. Building A  
Administration Building
- 2. Building B  
Business Building
- 3. Building U  
Student Union
- 4. Building S  
Science Building
- 5. Building F  
Fine Arts and Foreign Language
- 6. Building P  
Planetarium and Academic Classrooms
- 7. Building L  
Library
- 8. Buildings J & K  
San Diego State Temporary Building and Classroom Building
- 9. Building G  
Gymnasium Building
- 10. Building AG  
Agriculture Building



**IMPERIAL VALLEY COLLEGE**

ACCREDITED

by

The Western College Association  
The State Department of Education

A

MEMBER

of

California Junior College Association  
and the  
Southern California Junior College Association

APPROVED

by

The Veterans Administration

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# 1964

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# CALENDAR

## FALL SEMESTER 1964 - 65

**JUNE 15 - SEPTEMBER 4**

Applications for admission & transcripts received — Admissions Office.

**AUGUST 10 - SEPTEMBER 4**

Counseling and registration of students who have met admission requirements, 8:30 - 4:00.

**AUGUST 14**

Placement tests, 8:15 - 12:00. Required of all entering students.

**AUGUST 29**

Repetition of placement test, 8:15 - 12:00

**SEPTEMBER 4**

Orientation for new day students, 10:00 - 3:00.

**SEPTEMBER 7**

Labor Day (Holiday)

**SEPTEMBER 8**

Class instruction begins.

**SEPTEMBER 8 - 14**

Orientation for new extended day students, 8:00 - 8:20 P.M.

**SEPTEMBER 18**

Last day for change of program.

**SEPTEMBER 25**

Last day for students completing requirements in fall semester to file petition for graduation.

**OCTOBER 2**

Last day to drop classes without penalty.

**OCTOBER 12 - 30**

Sophomore pre-registration & advisement for Spring Semester.

**OCTOBER 16**

Last day to make up Spring 1964 incomplete grades. Last day to drop classes without petition.

**NOVEMBER 2 - 6**

Midterm examinations

**NOVEMBER 11**

Institute for instructors (Student holiday).

**NOVEMBER 16 - DECEMBER 4**

Pre-registration counseling & advisement for currently enrolled freshmen.

**NOVEMBER 26 - 27**

Thanksgiving recess.

**DECEMBER 7 - 11**

Spring term advance registration by priority number for students currently enrolled.

**DECEMBER 21 - JANUARY 1**

Christmas - New Year's recess.

**JANUARY 18 - 26**

Final examinations.

**JANUARY 27**

End of Fall Semester.

**STUDENT NOTES**

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# CALENDAR

## SPRING SEMESTER 1965

DECEMBER 14 - JANUARY 28

Applications for admission & transcripts received — Admissions office.

JANUARY 4 - 28

Spring Semester registration and scheduling of students who have met requirements for admission.

JANUARY 8

Placement tests, 8:15 - 12:00. Required of all entering students.

JANUARY 22

Repetition of placement tests, 8:15 - 12:00.

JANUARY 29

Orientation for new students.

FEBRUARY 1

Class instruction begins.

FEBRUARY 12

Last day for change of program.

FEBRUARY 19

Last day to file petition for graduation in June.

MARCH 12

Last day to make up Fall, 1964, incomplete grades. Last day to drop classes without petition.

MARCH 22 - 26

Mid-term examinations.

MARCH 29 - APRIL 9

Sophomore pre-registration counseling.

APRIL 12 - 16

Spring recess.

APRIL 19 - MAR 17

Pre-registration counseling & advisement for currently enrolled freshmen.

MAY 8

Placement tests for Fall Semester registration, 8:15 - 12:00. Required of all entering freshmen.

MAY 10 - 14

Fall term 1965 advance registration by priority number for students currently enrolled.

MAY 17 - June 4

Fall term 1965 advance registration for new students.

MAY 31 - JUNE 7

Final examinations.

JUNE 8

End of spring semester.

JUNE 9

Graduation.

### STUDENT NOTES

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# THE BOARD OF TRUSTEES

## IMPERIAL JUNIOR COLLEGE DISTRICT

MR. MILTON W. CARR

Trustee from area which includes Calipatria Unified School District

MRS. RIGMOR B. COPE

Trustee from area which includes Central Union High School District

MR. T. O. DANIELS, JR.

Trustee from area which includes Calexico Union High School District

MR. DON L. C. LYDICK

Trustee from area which includes Imperial Unified School District

MR. T. E. (Ted) PAXSON

Trustee from area which includes Brawley Union High School District

MR. WILLIAM J. THORNBURG

Trustee from area which includes Holtville Union High School District

MRS. CAROLYN F. WALLACE

Trustee from area which includes San Pasqual Valley Unified School District



## ADMINISTRATION

DR. TERREL SPENCER

Superintendent - President

DR. RAY E. LOEHR

Dean of Instruction

DR. DALE HOBSON

Business Manager

MRS. RUTH V. NOVAK

Dean of Counseling

MR. WARNER RENAS

Dean of Admissions and Registrar

MISS NELDA MATHIS

Dean of Student Activities

# THE FACULTY

- ANDERSON, JERROLD G. .... Speech  
 B.S., Northern State Teachers College  
 M.A., Colorado State College
- AUILER, LILLIAN ..... Director of Nursing, Nursing  
 B.S., San Diego State College
- BENOIT, PAULINE E. .... French, English  
 B.A., Rice University  
 M.A., Baylor University
- BIBBO, JOHN P. .... Mathematics, Astronomy  
 A.B., Boston University  
 M.A., University of California at Los Angeles
- BROWN, SOPHIE E. .... Nursing  
 R.N., St. Joseph's School of Nursing  
 B.S., University of California at Los Angeles
- BRUCH, WILLIAM G. .... Speech, Drama  
 B.A., San Jose State College  
 M.A., San Diego State College
- CLEVINGER, DARNELL H. .... Spanish  
 B.A., University of California at Los Angeles  
 M.A., University of California at Los Angeles
- COTE, RONALD G. .... Physical Education, English  
 B.S., M.A., Arizona State College
- DIN, GILBERT C. .... Social Studies  
 A.B., M.A., University of California at Berkeley  
 Doctor en Filosofia y Letres, University of Madrid
- ELKINS, MELVIN J. .... Agriculture  
 B.S., Fresno State College  
 M.Ed., University of California, Davis
- FIELDS, JIMMIE D. .... Business  
 B.S., Prairie View Agricultural and Mechanical College  
 M.A., University of Denver
- FINLEY, LUTHER E. .... Engineering  
 B.S., M.A., Arizona State University  
 I.Ed.D., Bradley University
- FUESLER, JACK B. .... Music  
 A.A., Norfolk Junior College  
 B.M.E., M.M., Northwestern University
- GRAY, DONALD C. .... Social Studies  
 B.A., M.A., University of California
- GRIFFIN, WILLIAM A. .... Business  
 B.S., University of North Dakota  
 M.A., Colorado State College

# THE FACULTY

- HARTSHORN, ROBERT, JR. ..... Librarian  
 B.S., Brigham Young University  
 M.S., University of Southern California
- HINSHAW, A. J. ..... Counselor, Mathematics  
 B.S., M.S., University of Southern California
- HOBSON, DALE ..... Business Manager  
 B.S., Baker University  
 M.S., University of Southern California  
 Ed.D., University of Kansas
- HOLLEY, JACK D. .... Physical Education, Health Education  
 B.S., Northwestern State College of Louisiana  
 M.A., Stephen F. Austin State College
- JOHNSON, DONALD M. .... Psychology, Counseling  
 B.A., M.A., University of California, Santa Barbara
- KAVANAUGH, LARRY E. .... Journalism, English  
 B.A., M.A., San Francisco State College
- LEONARD, THOMAS B. Biology, Chemistry, Health Education  
 B.S., M.S., William and Mary College
- LOEHR, RAY E. .... Dean of Instruction  
 A.B., University of California at Berkeley  
 M.A., Sacramento State College  
 Ed.D., University of California at Berkeley
- LOWE, JUANITA ..... Art  
 B.S., M.A., Western Carolina College
- MATHIS, NELDA J. .... Physical Education  
 B.S., Texas Woman's University  
 M.A., Columbia University
- MAVILA, NANCY PATE ..... Psychology  
 A.B., University of Alabama  
 M.Ed., University of Miami, Florida
- MELLINGER, ELWOOD J. .... Agriculture  
 B.S., M.A., Michigan State University
- MILLER, WILLIAM D. .... Geology, Geography  
 B.A., St. Bernard's College  
 B.S., Tulsa University
- NOVAK, RUTH V. .... Dean of Counseling  
 A.A., Los Angeles Junior College  
 A.B., M.A., University of California at Los Angeles
- PAULSON, CLARENCE A. .... Business  
 B.S., M.A., George Peabody College
- PERSKE, GERALD K. .... Biological Science  
 B.S., M.S., University of Nevada

## THE FACULTY

- QUIMBY, EDGAR A. .... History  
 B.A., University of Mississippi  
 M.A., Montana State University
- RENAS, WARNER A. .... Dean of Admissions,  
 Registrar and Counselor  
 A.B., San Diego State College  
 M.Ed., University of Southern California
- RICHWINE, HAROLD J., JR. .... Chemistry  
 B.S., Shippensburg State College  
 M.S., Bucknell University
- SAMSON, WALTER L., JR. .... History  
 B.S., Wisconsin State College  
 M.A., University of Wyoming
- SPEER, WILLIAM R. .... English  
 A.B., University of Chicago  
 M.A., Los Angeles State College
- SPENCER, TERREL .... Superintendent and President  
 B.S., University of South Mississippi  
 M.A., Peabody College  
 Ph.D., University of Chicago
- SWANN, MARIE B. .... English  
 B.S., Ed.M., University of Oklahoma
- THOMPSON, BLAINE R. .... Business  
 B.S., M.S., University of Utah
- THORNHILL, ROSANNE R. .... English  
 B.A., M.A., Oxford University
- TURNER, DONALD D. Director of Athletics; Physical Education  
 B.A., Monmouth College  
 M.A., Illinois State Normal University
- WASSON, HENRY S. .... Physical Science  
 B.S., University of Nebraska  
 M.B.S., University of Colorado
- WHITE, RAY A. .... Automotive Technology  
 A.A., Antelope Valley Junior College  
 A.B., Fresno State College

# THE COLLEGE

## LOCATION

The Imperial Valley College is located in Imperial Valley, long recognized as one of the richest, most productive agricultural regions in the country. The mild, delightful winters have made the region attractive to tourists and helped it to become an outstanding recreational region.

The campus is located on a 160 acre site at the intersection of Highway 111 and Ira Aten Road. This location is in the heart of Imperial County and is within reasonable commuting distance of all of the cities of the Valley.

## HISTORY OF IMPERIAL VALLEY COLLEGE

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.

During its thirty-eight years of service to residents of Imperial Valley, the junior college movement has grown from two small colleges, organized by two high school districts, to a county-wide junior college district which serves seven high schools and unified school districts.

It had its beginning on May 9, 1922, when the Board of Trustees of the Central Union High School District of El Centro passed a resolution establishing the Central Junior College. This institution formally opened for instruction in September, 1922.

Two years later, in the fall of 1924, the Brawley Union High School District opened classes at the Brawley Junior College.

Enrollments increased in both schools until the war years when attendance dropped sharply. Brawley Junior College was forced by lack of attendance to discontinue classes at the close of the 1947 school year.

Although enrollment dropped at Central Junior College, the institution continued to operate and after the war years steadily gained in attendance.

The Associate in Arts degree was first conferred by Central Junior College 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, for it was now serving students from all of the Imperial Valley. By action of the Board the name was officially changed to Imperial Valley College.

The school, under the administration of the Central Union High School District, gained recognition as an accredited institution of higher education. As the institution grew with the community, this growth was reflected in the steady rise in enrollment and in the diversity of courses and curricula that was offered.

The extended-day program, which offered regular college classes at night, was initiated on a limited basis in 1952; its rapid growth served to enlarge the service of the college to the community.

An increasing number of students from other high school districts attended the college in El Centro, and it was felt that a county-wide junior college district with a campus of its own could offer much more to the students and be of greater service to the entire Valley.

A recommendation that such a county-wide junior college district be established in Imperial County was submitted to the State Department of Education and was approved on July 10, 1959. The County Superintendent of Schools then set a date for an election at which all qualified voters residing within the boundaries of the seven high school and unified school districts were eligible to vote. The election was held on October 6, 1959; and by an overwhelming vote of twelve to one, the Imperial Valley Junior College District was established. This was followed by the election of the members of the Junior College District Board of Trustees, one of whom comes from each of the seven high school or unified school districts represented in the area served by the Imperial Junior College District.

This District includes all of Imperial County except two areas. One, the Niland School District, is not a high school or unified school district as is required by State law of areas participating in a junior college program. The other, a small area in the northwest corner of the County, is a part of the new Coachella Valley Junior College District.

Because of the increase in enrollment at both Central Union High School and the Imperial Valley College, and because of the lack of space on the campus of the Central Union High School in El Centro, the Imperial Valley College moved to temporary quarters erected on the campus of the Imperial Valley Union High School in Imperial, California.

The college opened with over 850 day and evening students. Subsequently, enrollments in special classes during the semester brought the total to over 1,000 students. The average daily attendance was approximately double the number that had been attending college in the County during the previous year. During the school year of 1961-1962 enrollment again increased and over 1400 students were served by the institution.

On October 4, 1960, an all-time State record was set by the people of Imperial County when they voted thirteen to one in favor of bonds to finance the building of a new campus.

The Board of Trustees selected a nationally known architectural firm to plan the new buildings, and a 160 acre site which met the criteria recommended by the Citizens' Committee was selected for the new campus.

On October 29, 1961, an impressive ground-breaking service was held for the new campus. Board members manned giant earth-moving equipment to break ground for the project. The new buildings include a library, science laboratories, fine arts rooms, student activities building, academic classrooms, administration and faculty offices, social science rooms, physical education shower and locker rooms, and agricultural education classrooms and shop.

### FACILITIES

**Imperial Valley College**  
Freshmen, Sophomores

**San Diego State College**  
Juniors, Seniors, Graduates

Imperial Valley College is unique among the junior colleges in California in that by close cooperation with a State College certain students can attend four years and complete a bachelor's degree while attending these two cooperating colleges. The Imperial Valley Center of San Diego State College shares the campus with the junior college. The students of both lower division and upper division benefit from this close cooperation.

At the present time courses offered in the upper division (third and fourth years) are largely those courses required for the elementary and secondary teaching credentials. Other courses are offered in liberal arts, and as the demand expands, other courses will be added to the San Diego State curriculum.

### LIBRARY

The large, center building of the campus houses the library where over ten thousand volumes are available for student use. A periodical section and pamphlet file offer additional current materials. Every month new volumes are being added to the library.

A section of the library is devoted to audio-visual materials where special equipment makes it possible for the students to individually view film strips, listen to recordings, or work with special foreign language equipment. Reading accelerators, designed to increase speed and comprehension, are available; and other similar educational materials of the latest design have been provided for the students' use.

### OBJECTIVES AND PHILOSOPHY

The following objectives serve as a framework for the total program of Imperial Valley College. They outline the principles which form the basis for evaluating the courses offered, the teaching methods used, the administrative policies, the social relationships and the physical facilities of the campus.

A public junior college serves as a capstone to the locally controlled public educational program. It provides an effective means of strengthening and advancing the basic ideals of democracy.

It is therefore the objective of this college to provide educational experiences which promote and emphasize the fundamental democratic way of life.

A junior college education is likely to be the last organized effort made by most citizens to improve their knowledge, skills, and understanding. It is the accepted obligation of the college to strive to help students to become more competent in using the essential skills of communication, to improve their knowledge and appreciation of the history of our culture, to further develop understandings of other nations and appreciation for their cultures, and to acquire greater knowledge of mathematics and science as a resource for the control of our environment or as an extension of the knowledge of that environment.

The major purpose of the college is to further the development of the talents of all students by helping them to select appropriate vocational and intellectual goals, and to reach these goals through the planning and completion of appropriate educational programs.

The best college education provides for the development of responsible self-direction by all students. The aim of the college is to assist students to gain the necessary knowledge so that they can intelligently make their own decisions and then assume the responsibility for the choices that they have made.

All college students have creative ability to some degree. It is therefore an objective of the college to offer opportunities for the development of creative expression and appreciation.

In a world characterized by rapid social and technological change and one in which the pressures of daily living are severe, the college accepts as an objective the development of moral and spiritual values, ethical ideals and the appreciation of the high standards of conduct.

In its required general education program the college attempts to provide, through appropriate intellectual experiences, the guidelines necessary for the examination and development of appropriate value systems.

The best college program for today is likely to be inade-



quate for tomorrow. In order to keep the program dynamic and developing, teachers are encouraged to keep up with their fields of specialty, special consultants are asked to review and evaluate, and citizens advisory groups are asked to make recommendations about course content and facilities.

The college aims to keep the people of the county who own the school fully informed concerning its program, needs, purposes and the opportunities which it presents.

### GENERAL EDUCATION

The goals of general education, expressed as objectives for each student, are implemented at Imperial Valley College in the following ways:

1. **Exercising the privileges and responsibilities of democratic citizenship** as studied in the required Constitution of the United States, American History, and State and Local Government; and in participation in Student Government.
2. **Developing sound moral and spiritual values by which he guides his life** as emphasized throughout the college curriculum and included as an integral part of all college classes.
3. **Expressing his thoughts clearly in speaking and writing and in reading and in listening with understanding** as studied in required English classes, in speech classes, and in classes formed to develop special study skills; and as practiced in all instructional situations.
4. **Using basic mathematic . . . skills necessary in everyday life** as studied in required mathematics classes.
5. **Understanding his cultural heritage so that he may gain a perspective of his time and place in the world** as studied in the recommended humanities program.
6. **Using methods of critical thinking for the solution of problems and for discrimination among values** as studied in science, mathematics, philosophy, social studies and other classes.
7. **Understanding his interaction with his biological and physical environment so that he may better adjust to and improve that environment** as studied in the recommended science program.
8. **Maintaining good mental and physical health for himself, his family, and his community** as studied in physical education, health education, and related areas.

### **Occupational or Vocational-Technical Courses**

The Occupational or Vocational-Technical courses are designed for several types of students.

Many of the needs of the student who seeks employment at the end of the sophomore year can be met by the **vocational courses** included in this group. In addition to offering a breadth of education, they meet specific needs in the shortest possible time in preparing the student for his chosen field of employment.

These courses also offer a well-organized **general education program** to meet the needs of the individual who has only two years to devote to post-high school education.

The junior college program also includes courses of study which may be taken by adults who can demonstrate their ability to do college work but who have not had the opportunity of completing high school. Evidence of success in classes of college level will permit these adults to continue their educational endeavors, either in vocational or transfer curricula.

Coordinated with these two general divisions of work at the college (transfer and vocational) there are three programs that are designed with specific types of students in mind. They are the students who can devote only evenings to school, the students who can coordinate their college study with a program of employment, and the outstanding high school seniors who can profit by special work at the college level.

### **Extended Day Program**

The Extended Day Program, which is composed of regular college classes that meet at night, offers to the first of these an opportunity to work for the Associate in Arts degree, to complete regular lower division work in a four year program, to make up any high school deficiencies, or simply to take additional classes of interest that will add to general education.

Although it takes longer than the day program, students find that with adequate planning, with the assistance of a teacher-counselor, that in a surprisingly short time the goals they establish in the field of higher education can be attained through the Extended Day Program.

### **Vocational Work-Study Program**

Coordinated with these courses of study, Imperial Valley College offers a Vocational Work-Study Program. Under this plan students are assisted in finding part-time employment in

## TYPES OF PROGRAMS

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fields that are related as closely as possible to their occupational goals. Cooperating with employers and the State Employment Office, representatives of the college investigate the positions that are open; refer the students for interviews; and visit the students at work so that they may help to improve job performance and stress the need for knowledge, skill, and good work habits. Students can earn a maximum of 16 units (four units of credit per semester) toward junior college graduation if they make satisfactory progress and if the work is related directly to their occupational goals. Such credit is generally not accepted for transfer by four year colleges. The most important values derived from this program are those which will make the student a better employee. It is intended that this program will provide training in a new field of endeavor for the student and that it will lead to proficiency in a new line of work. Credit cannot be given for continued routine work in a previously established position if it does not lead to the attainment of a specific goal.

### **Honors Program for Talented High School Seniors**

This program provides high school seniors who have special abilities an opportunity to take college courses. Selected seniors from Imperial Valley high schools are eligible to enroll and pursue an accelerated program by means of concurrent enrollment at Imperial Valley College.

The major objective of the program is to promote the advancement of specially capable students by permitting them to earn college credit while completing high school senior work.

Students selected for the program must complete all graduation requirements in the high school program at the same time they take the college courses. Parents of the students involved must give approval before any nominated students are eligible for the program.

The selection of candidates is made by the high school principal or his designated staff member. He advises the student and his parents of the student's eligibility for the program.

The College teacher-counselors work with the students, their parents, and the high school counselor, in the implementation of the program.

The high school students who accept the invitation to enter the program may take not more than two courses with

a maximum of 8 units of college credit. Students have a great deal of freedom in the selection of college courses. Among the courses in which they may enroll are the following:

Agriculture	Engineering	Mathematics
Anthropology	Drawing	Music
Art	English	Philosophy
Business	French	Physics
Chemistry	Geology	Sociology
Economics	History	Spanish
		Zoology

Although no high school student has attained a high school diploma when he starts the program, he is registered by the college as a regular student. Grades and units earned are part of his permanent college records. Most four year colleges and universities have indicated that they will award transfer credit for work satisfactorily completed.

Both the college and high school transcripts of record will bear a label such as the following:

#### HONORS PROGRAM

(Concurrent High School and College Enrollment)

The students will spend a minimum of four periods in high school. The physical education requirements will be met within that four period schedule. Students are restricted to a spectator's role in college student activities, and extra-curricular participation is to be confined to the high school. Personal counseling is available at the college, but every effort will be made to leave this responsibility to the high school counseling staff. Educational and occupational counseling is to be shared by the staffs of the two institutions.

The costs of participation will be assumed by the students and their parents. There is no tuition nor other fee and the students are not eligible to join the Imperial Valley College Associated Student Body. Textbook expenditures will range between \$10 and \$20 per semester. Transportation provisions are to be made by the student and his parents.

#### DEGREES

The Board of Trustees, on recommendation of the president 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.) and the Associate in Science (A.S.) degrees. Conditions under which the degrees are granted are outlined in the section on graduation requirements.

The junior college degree is awarded to a student who fulfills a two-year organized program of work, either of an occupational-vocational-technical type or of a lower-division four-year college 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. A student who wishes to transfer to the upper division of a four-year college must satisfy the course, unit, and grade requirements of the college he wishes to enter.

### SCHOLASTIC HONORS

#### Graduation Honors

"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 higher.

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

#### President's Honor List

The president of the college gives special recognition to top scholars each semester by publishing a list of students whose grades for the previous semester show a 3.0 average or better in twelve or more units of work.

#### Alpha Gamma Sigma

**Temporary membership** in Alpha Gamma Sigma, California Junior College Honor Society, is awarded each semester to not more than ten per cent of the enrolled students 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 exclusive of physical education.
3. No grade lower than a "C", including physical education.
4. Recommendation of the faculty.

**Permanent membership** is awarded to not more than ten percent of the graduating students who must meet the following qualifications to be eligible for consideration:

1. Temporary membership in Alpha Gamma Sigma any three out of four, or four out of five, semesters of attendance.
2. A grade point average of 3.3 or higher.
3. Recommendation of the faculty.

The final selection to permanent membership is made by

## SCHOLARSHIPS

Faculty committee that considers the eligible students from standpoint of three qualities: character as shown by conduct, general behavior, service as shown by loyalty and service to school, and leadership as shown by activity in student affairs.

One man and one woman from the graduating class may be named to the **State Honor Roll of Alpha Gamma Sigma**. These students must have a grade point average of at least 3.5 and must be recommended by the faculty for this high honor.

### SCHOLARSHIPS

Many service organizations and individuals in the Imperial Valley offer scholarships for which students may apply. The purpose of these scholarships is to give some financial assistance to worthy students desiring to continue their educations. Grants are based on factors of scholarship, citizenship, character, need, and life goals and purposes.

Institutions and organizations providing scholarships at Imperial Valley College are:

Bank of America, Brawley Lions Club, Brawley Rotary Club, Brawley Woman's Community Club, Bureau of Indian Affairs, Calexico Union High School, Cotton Carnival Association, Delta Kappa Gamma Society of El Centro, El Centro Moose Lodge, El Centro Rotary Club, Girls' League Advisors' Association, Holtville First National Bank, Holtville Lions Club, Holtville Veg-Vac Precooling Incorporated, Holtville Woman's Club, Institute of International Education, Imperial-Mexicali Council of Rotary Clubs, Knights of Columbus and Westmorland Lions Club.

Some of these scholarships are restricted to applicants in specified districts; others have no restrictions and may be awarded to anyone from the Imperial Valley. These scholarships range in amount from \$25.00 to \$500.00.

An Imperial Valley College Trust has been established. Capital is invested and interest is used each year to provide scholarships in the names of the donors.

Through the Gamma Delta Chapter of Alpha Gamma Sigma, the junior college scholarship society, awards varying from one hundred to five hundred dollars are available to ranking graduating 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 to outstanding graduates of junior colleges. In general, appli-

## **EXPENSES**

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cations for these scholarships should be made by January 1st of the year preceding enrollment.

Further information regarding scholarships may be secured from the counselor or the Chairman of the Scholarships and Loans Committee.

### **EXPENSES**

There is no tuition charge for legal California residents. Tuition for foreign students and for students who are legal residents of other states is \$10.20 per unit to a maximum of \$153.00 per semester.

Expenses that are normally incurred by all students are for books, supplies, and a student-body card. These expenses average approximately \$50.00 a semester, but vary depending upon the courses that are taken.

The student-body card, which costs \$10.00 per semester, admits the student to all regular athletic activities of the college, pays for the school paper; gives voting privileges and the opportunity to hold office; partially pays the cost of the school annual (credit for two semesters pays the whole cost of the year-book); permits the use of the student store and lounge area; gives reduced rates at some movie theaters; and permits application for membership in campus clubs and organizations, all of which are part of the Associated Student Body organization. A student who registers for nine and a half units or less may purchase a special student body card for \$2.50 per semester which entitles him to the newspaper, admission to the games, and to the use of the student store and lounge area.

### **LOANS**

Students may apply for loans under the National Defense Student Loan Program. The loans are financed from federal and local funds and are available under certain conditions to deserving students. The loans are repayable in five yearly installments, commencing one year after graduation. Preference is given to students in science, mathematics, foreign language, or teaching. Under certain circumstances, up to one-half of the amount of the loan is cancelled if students enter the teaching profession after graduation.

### **COUNSELING AND GUIDANCE SERVICES**

It is the aim of the college to provide all pertinent information that will aid the student in formulating his objectives and

plans and to encourage him to make the most of his potentialities and training.

Each student is served by an experienced and trained counselor who assists in dealing with educational, vocational, and individual problems. In consultation with his counselor the student reviews his aptitudes and potentialities as revealed by standardized tests and by records of past performance, and plans a program of studies in terms of his personal objectives. The student also has the advantage of being able to consult with an instructor who serves as an advisor in the subject area of his major.

Individual counseling is supplemented by group programs which deal with specialized occupational information, and by workshops that deal with particular student interests and needs that are shared in common.

To provide the opportunity for a detailed analysis of individual abilities and interests, and to provide the opportunity for occupational analysis, Psychology 50 is offered under the auspices of the Counseling Department.

Other services include special testing, employment referrals, explanation of veteran benefits and rights, and the processing of various types of scholarship applications.

### **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 California Junior College Association, Southern Section.

### **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).

### **STUDENT ACTIVITIES**

Student affairs are governed by the Associated Students of Imperial Valley College. The Executive Board consists of the president; vice-president; recording secretary; corresponding secretary; treasurer; commissioners of activities, assemblies, athletics, publicity, rallies and the student union; sophomore and freshman representatives; Associated Women Stu-



## STUDENT ACTIVITIES

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dents and Associated Men Students representatives; cheerleaders; and songleaders.

Those students who are socially inclined will find an opportunity for the development of their interests in clubs and the social affairs of the year. Others who are interested in athletics will benefit from a variety of intercollegiate sports; and those who are interested in music, publications, or student government will find many opportunities for participation in these activities.

To be eligible for any school office or any intercollegiate conference, a student must meet the following requirements: for athletics, he must be passing in at least 10 units of work at the time of the extra-curricular activity; for student government positions, he must be passing in at least 10 units of work, and if previously enrolled in college he must have achieved at least a 2.0 grade point average for all work undertaken.

To maintain a balance between curricular and extra-curricular activities, no student is eligible to hold a major leadership office in more than one organization without the approval of the Administration. This makes it possible for the greatest number of students to have the opportunity of actively participating in positions of leadership.

### STUDENT NEWSPAPER

The college newspaper is published periodically throughout the school year by members of the Publications Workshop. It presents articles and news items about college activities and affairs. Students who are interested in any phase of newspaper work should contact the journalism instructor or the student editor for further information.

### SCHOOL ANNUAL

The school annual, published by the Yearbook Workshop, highlights with pictures and words the year's activities and becomes a memento of the students' college experiences. Students who are interested in serving on the staff should see the journalism instructor or the student editor.

### COLLEGE BOOKSTORE

The college bookstore is furnished and maintained by the Associated Students. All college textbooks and necessary supplies are available and a snack and coffee bar provide refreshments and meals for the students.

### ATHLETICS

The college is a member of the South Central Conference, consisting of Antelope Valley, College of the Desert, Oceanide-Carlsbad, 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, wrestling and baseball. Trophies are awarded to 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 week 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. This requirement applies if the student has attended another junior college in California, or is a graduate of a high school of another district that maintains 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.

## REGULATIONS

### ADMISSION

Admission to Imperial Valley College is governed by the laws of the State and such supplementary regulations as are prescribed by the Board of Trustees. Students who are registering for eight or more units of work are required to (1) submit a transcript of all work taken in high school and a transcript of any advanced work that has been completed, and (2) they are required to take the college placement tests which include English and mathematics achievement tests, unless they have completed regular college courses in both English and mathematics.

## REGULATIONS

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Failure to submit complete transcripts of prior college work may result in dismissal.

1. Admission of **High School Graduates.** Graduates of four-year high schools are eligible to apply for admission. An application for admission and a transcript of the secondary school record must be filed with the college and evaluated by the admissions officer.

2. Admission of **High School Graduates with Recommended Status.** The term **recommended status** applies to those students who, at the time of their graduation from high school, had completed a college preparatory course which included the following basic academic core of subjects with an average grade of B or higher. (One credit represents one year's work in a high school subject.)

- a. History ..... 1 credit
- b. English ..... 3 credits
- c. Laboratory Science (11th or 12th grade course in chemistry, physics, physiology, botany, or zoology) ..... 1 credit
- d. Foreign language (one language) ..... 2 credits
- e. Advanced mathematics, or chemistry or physics (in addition to c), or foreign language (additional year in language offered under d), or 2 years of another language ..... 1 or 2 credits

NOTE: Any student who wishes to have this recommended status recorded on his transcript may petition the Registrar.

A high school graduate who does not have these requirements but wishes to attend a college or university that has these requirements for entrance, may make up either subject or grade deficiencies at Imperial Valley College and at the same time make progress toward the Associate in Arts degree.

3. 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 administration the college work will be profitable to him. Those admitted may wish to enroll in some course or courses for purposes of general education, in a specialized vocational program, or in courses that will complete requirements for a high school diploma, which, on recommendation of the college, will be granted by a cooperating high school.

Non-high school graduates are automatically placed on probation for the first semester. This probation may be removed upon the completion of the first twelve units of work in which a grade of at least 1.5 (D+) has been earned. All non-high school graduates on probation may take only those

courses approved by a counselor. The maximum course load of such students shall be twelve units plus physical education.

4. Admission of **Special High School Students.** Outstanding high school students, selected by the high school principals will be admitted for 2-8 units of college work. (See page 18.)

5. Admission of **Students with Advanced Standing.** Applicants who have attended other colleges may be admitted with advanced standing. Before admission and advanced standing can be granted, such students must present for evaluation transcripts of their high school records, together with transcripts of their college records, and honorable dismissals from the institutions last attended.

6. Admission of **Students from Other States.** Students from other States may be accepted for enrollment if they meet the requirements of admission. A fee of \$10.20 per unit, not to exceed a total of \$153.00 per semester is charged out-of-state students.

7. Admission of **Foreign Students.** Foreign students may be admitted to Imperial Valley College if their qualifications meet the requirements of admission and if they have achieved sufficient mastery of the English language, as evidenced by their scores on entrance examinations, to participate in and profit from college class work. Tuition of \$10.20 per unit, not to exceed a total of \$153.00 per semester is charged.

### TRANSCRIPTS

One transcript of credits earned at Imperial Valley College is furnished free to the student at his first request. Thereafter, a fee of fifty cents is charged for each additional transcript requested. Requests for transcripts will not be honored until all outstanding obligations to the college are met.

Transcripts of work completed in high school and in other institutions of higher learning are required by Imperial Valley College for the following students:

1. All students taking eight or more units per semester,
2. All students who are working toward the A.A. degree,
3. All foreign students,
4. All part-time students who have been on academic probation,
5. All other students when requested to do so by the administration or by the counselor.

### **RESIDENCE REQUIREMENTS**

The residence of a student who is under twenty-one years of age is that of his father; or his mother if the father is not living; or of his legal guardian. The address of a married student, regardless of age, is his current residence.

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 permit.

### **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 secure further information from their counselors.

### **ATTENDANCE AND AUTOMATIC WITHDRAWALS**

Regular attendance at all classes is expected of all students enrolled. Instructors are expected to take a student's attendance record into account in computing his grades. A student may be excluded from further attendance in a class during any semester when his absences after the close of registration have exceeded the number of class hours which the class meets per week. A student may petition the instructor and Registrar for readmission after giving assurances that the work missed will be or has been made up.

## ATTENDANCE

Students who have been absent for more than twice as many class hours as the class meets per week shall be automatically withdrawn and be given a grade of "F." In a laboratory lecture situation the lecture hours will be separated from the laboratory hours. (Example: in a class where there is a two-hour lecture and a six-hour laboratory per week the student will be dropped when his total absences in lecture hours exceed four or his total absences in laboratory hours exceed 12.) Students excluded from classes for reason of absences may petition the Petitions Committee for reinstatement. **Such petitions will be acted upon favorably only if it can be established that the absences were due to circumstances beyond the student's control and that the work has been made up.**

A petition form may be secured from the Registrar's Office and must be signed by the instructor and returned to the Registrar's Office fully executed. The Registrar will grant the student temporary permission to attend class until the Petitions Committee has taken action.

A student who is tardy three times shall be considered as having been absent once. Absences attributed to the representation of the college at officially approved conferences and contests and attendance upon field trips will not be counted as absences. Lists of such students are to be prepared by the Dean of Instruction.

### STUDY LIST LIMITATIONS

A regular program is 15 to 17 units, excluding an activity course in 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 student is 17½ units; exception will be made only by special permission of the Administration and then only when there is clear evidence of successful scholastic performance.

### AUDITING

Auditing of courses is not permitted.

### 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.

It is not expected that study lists will be worked out on a trial basis; therefore, the student is expected at the time he files his study list with the Registrar to make no further changes.

If a change in program is dictated by changes in the

## GRADING SYSTEM

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master schedule of the college, or if other legitimate reasons can be verified, the student must obtain an official change of program slip from the counseling office and secure the approval of his counselor for the change. All changes in study lists must be made before the end of the second week of the semester.

### SCHOLARSHIP GRADING SYSTEM

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:

#### 1. GRADES

##### A Superior

HONOR GRADE indicating EXCELLENCE earned as a result of consistently superior examination scores; consistently accurate and prompt completion of assignments; ability to deal resourcefully with ideas; superior mastery of pertinent skills; and promise of success in field related to subject.

##### B Better Than Average

HONOR GRADE indicating COMPETENCE earned as a result of high examination scores; accurate and prompt completion of assignments; ability to deal well with ideas; commendable mastery of pertinent skills; and promise of continued success in sequential courses.

##### C Average

STANDARD COLLEGE GRADE indicating SUCCESSFUL PERFORMANCE earned as a result of satisfactory examination scores; generally accurate and prompt completion of assignments; ability to deal with ideas; fair mastery of pertinent skills; and sufficient evidence of ability to warrant entering sequential courses.

##### D Passing

SUBSTANDARD GRADE indicating the MEETING OF MINIMUM REQUIREMENTS ONLY earned as a result of low examination scores; generally inaccurate, incomplete, or late assignments; inadequate grasp of ideas; barely acceptable mastery of pertinent skills; or insufficient evidence of ability to make advisable the enrollment in sequential courses.

##### F Failing

UNSATISFACTORY GRADE indicating that the work has

been wholly unsatisfactory, and that no credit will be given.

Inc. Incomplete

UNFINISHED WORK, OTHERWISE PASSING indicating that an important assignment such as a term paper, final examination, or experiment is missing (for medical or other sufficient reason) but can be submitted to complete the course. 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".

1. WITHDRAWAL GRADES

W/P Withdrawal, passing

W/F Withdrawal, failing

A student who must withdraw or drop a course is required to report to the Registrar's Office for instructions on the proper procedure. The student who does not follow the formal procedure will be given a grade of "F" in each course irrespective of the date of withdrawal or dropping.

The student who withdraws or drops courses properly within the first six weeks will be given grades of "WP" or "WF" depending on whether he is passing or failing at the time action is initiated. After the sixth week grades of "F" will be given irrespective of the grades then being earned, unless it can be demonstrated that extenuating circumstances such as an incapacitating illness or injury or moving from the community exist. Under such circumstances the student may petition the petitions committee for withdrawal with grades of "WP" or "WF" whichever are appropriate. **Such petitions must be presented in person when possible, or by mail, and in all cases must be accompanied by prima facie evidence supporting the reason for withdrawing.**

3. GRADES FOR REPEATED COURSES

A course in which a grade of "D" has been earned may be repeated in special cases but no additional units of credit will be allowed. A course in which a grade of "F" has been given may be repeated for credit. In each instance, however, the original grades, grade points and units, if earned, will stand as recorded on the student's permanent record; but the new grade and grade points also will be entered. The cumulative grade point ratio will be determined in



## SCHOLARSHIP REQUIREMENTS

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cases of repeated courses by including units attempted and grade points earned on both the original and repeated enrollments in the course.

### 4. 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

W/P 0 grade points per unit; units not charged against the student

W/F 0 grade points per unit; units charged against the student

The grade point average is computed by dividing total grade points earned by total units attempted. Thus in any given semester, if the grade points earned total 28 and the total units attempted equals 14, the grade point ratio is 2.00.

### ACADEMIC PROGRESS NOTICES

At any time during the semester an instructor may submit a notice of academic progress to a student. At mid-semester each instructor will complete a notice on academic progress for each student who has failed to maintain an average grade of "C" in his course. A copy of each notice is also filed with the counselor. Every student who receives an academic progress notice is urged to confer with his counselor.

### SEMESTER GRADE REPORTS

An end of the semester grade report is issued to each student by the Registrar after the semester's work has been completed.

### PROBATION

A student who at the end of any semester has failed to achieve a 1.5 (D+) grade point average in units attempted is placed on probation, and the probationary status is entered on the permanent record of the student.

A student on probation is enrolled in college conditionally, and is expected to make wise use of his time and to abide by the recommendations of his counselor and instructors in improving his study habits. Neglect of these recommendations

## SCHOLARSHIP REQUIREMENTS

will be considered as evidence of the student's lack of sincerity in improving his academic status.

Regular status can subsequently be attained by attempting twelve or more units in a semester or sequence of semesters and achieving a 1.5 or better grade point average providing there have been no grades of "WF" "F" or "Inc" in the twelve or more units attempted. No student on probation may enroll for more than 12½ units per semester.

Any student on probation who in the next semester of attendance fails to achieve a 1.5 grade point average in units attempted during that semester will be subject to dismissal.

Students who have been dismissed because of probationary status may, after one full semester, apply for readmission to the college. This application will be reviewed by the administration and if granted, will be subject to all conditions specified.

### WITHDRAWAL FROM COLLEGE

A student who is required to withdraw from college because of extenuating circumstances must contact the registrar for the procedures to be followed. Unless an official withdrawal petition is filed the student will receive grades of "F" in all classes in which he is registered. See: "Withdrawal grades," page 31.

### 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-one or over
- (3) Postgraduate standing
- (4) Enrollment in 8 or fewer units
- (5) Completion of basic or recruit training in any of the Armed Forces of the United States.

Exemption on grounds of physical disability will be granted only on receipt of a written statement from a physician advising the exemption. Exemptions are granted on the semester basis but may be renewed on the written request of the physician.

Those applying for exemption for reasons other than physical disability must present suitable evidence at the time of their registration.

## GRADUATION REQUIREMENTS

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Students may not enroll in an evening physical education activity class for recreation.

### CHANGES IN THE CATALOG

Any regulation adopted by the administration of Imperial Valley College shall have the same force as a printed regulation in the catalog and shall supercede, upon appropriate public announcement, any ruling on the same subject which may appear in the printed catalog or official bulletins of the college.

## GRADUATION REQUIREMENTS

Upon the completion of the following requirements, students at Imperial Valley College will be granted the degree, Associate in Arts or Associate in Science, depending upon the major completed. Responsibility for filing a petition for graduation rests with the student. This petition is to be filed with the Registrar at the time of registration for the last semester in attendance before graduation.

The requirements for graduation represent not only the minimum general requirements outlined by the State, but also the firm commitment on the part of Imperial Valley College to the principles of **general education**. These requirements in general education are designed to develop the potential of every student, broaden his outlook, and contribute to the realization of the well-balanced whole man.

### I. GENERAL REQUIREMENTS

#### A. UNIT REQUIREMENT

There must be a satisfactory completion of at least 60 units of work plus physical education activity if required.

#### B. SCHOLARSHIP REQUIREMENT

A grade point average of 2.0 (C) or higher must be earned in all work undertaken. However, if a student returns to college after five years of absence, he may petition for the exclusion of his first semester or first year of college work. If any part of a semester's work is to be excluded, the entire semester's work must be excluded with respect to grades, units and course requirements.

#### C. RESIDENCE REQUIREMENT

The residence requirement may be met in one of the following ways:

## GRADUATION REQUIREMENTS

1. Completion of at least the last 15 units at Imperial Valley College.
2. Completion of a minimum of 54 units at Imperial Valley College if not in attendance at the time of qualifications for graduation.

### II. GENERAL EDUCATION REQUIREMENTS

#### A. ENGLISH

This requirement may be satisfied by completion of at least six units from one of the following course combinations:

1. English 1A plus 3 units from the following: English 1B, 30A, 30B, or 52A.
2. English 51A plus 3 units from the following: English 51B, 1A, Business 80, Journalism 93, or any course in Speech.

#### B. PHYSICAL EDUCATION

California State law requires all junior college students to take directed physical education activities each semester. (For exemptions see page 33.)

#### C. HYGIENE AND HEALTH EDUCATION, including First Aid and Safety Education (2 units)

This requirement may be met by completion of Physical Education 21.

Note: A student who has completed a basic training program in any of the Armed Forces of the United States may verify this training and file a petition requesting that he be excused from this requirement.

#### D. CONSTITUTION OF THE UNITED STATES, AMERICAN HISTORY, AND STATE AND LOCAL GOVERNMENT

This requirement may be met by one of the following sequences:

History 17A-17B

History 2, Political Science 2

History 8A-8B, Political Science 1A or 2

#### E. SOCIAL SCIENCE

This requirement may be met by completing any one of the following courses:

Psychology 1A

Psychology 50

Sociology 1A

#### F. MATHEMATICS

The Mathematics requirement may be met by scoring sufficiently high on the placement test or by passing Mathematics 51.

above requirements, schedule his program so that he completes additional courses in science and the humanities (dramatic art, literature, philosophy, art, music).

## TRANSFER REQUIREMENTS

Two principal kinds of requirements must be met in order to attain full junior standing at a state college, the University of California or other institution maintaining equivalent standards to which the student expects to transfer. These are as follows:

1. The completion of the specified requirements for **junior standing** in the proposed senior college or university, and,
2. The completion of the **lower division prerequisites** for upper division majors and minors.

These vary according to the requirements of the institution of higher education in which the student expects to enroll. A STUDENT EXPECTING TO TRANSFER TO SUCH AN INSTITUTION SHOULD CONSULT THE CATALOG OF THE INSTITUTION REGARDING SPECIFIC REQUIREMENTS and plan his Imperial Valley College work so that these requirements will be met.

### GENERAL EDUCATION REQUIREMENTS

#### California State Colleges

All California State Colleges require a minimum of 45 units of credit in **General Education** for graduation at the end of four years. With the exception of six units, these are in addition to the units earned in major and minor fields. Many of these units may be earned while the student is in attendance at Imperial Valley College.

The following summary of General Education requirements for the degrees of Bachelor of Arts and Bachelor of Science, granted by state colleges, may be of help to students as they plan their junior college courses of study.

**Required Curriculum.** Each student in a state college to qualify for graduation shall complete a pattern of courses defined by that college to include the following:

General Education, minimum—45 units.

The courses in General Education shall be distributed in the following manner:

- (1) Social Sciences ..... 9-12

## GRADUATION REQUIREMENTS

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### G. NATURAL SCIENCE

This requirement may be met by any course in a physical or biological science.

### III. MAJOR REQUIREMENT

This requirement may be satisfied by the completion of 20 units in a field of major interest chosen from the following list.

#### A. AGRICULTURE

#### B. ART

#### C. AUTOMOTIVE TECHNOLOGY

#### D. BIOLOGICAL SCIENCE (anatomy, biology, botany, physical anthropology, physiology, zoology)

#### E. BUSINESS (business, economics)

1. Bilingual Secretarial
2. Bookkeeping
3. General Business
4. Merchandising
5. Real Estate
6. Secretarial

#### F. ENGINEERING (engineering, required mathematics)

#### G. ENGLISH (English, journalism, speech, drama)

#### H. HISTORY AND POLITICAL SCIENCE

#### I. HUMANITIES (art, music, dramatic art, literature, philosophy)

#### J. LANGUAGES (English, French, Spanish)

#### K. LAW ENFORCEMENT

#### L. MATHEMATICS (mathematics, engineering, physics)

#### M. MUSIC

#### N. NURSING, LICENSED VOCATIONAL

#### O. PHYSICAL SCIENCE (physical science, chemistry, physical geography, geology, physics, mathematics 1 or higher)

#### P. SOCIAL SCIENCE (cultural anthropology, economics, cultural geography, history, political science, psychology, sociology)

#### Q. VOCATIONAL (completion of a Vocational Work-study Program in a specific field combined with a program of related courses approved by the Administration)

#### R. LETTERS AND SCIENCE (completion of lower division requirements for a selected major as required for upper division standing at a specific university or college)

### IV. GENERAL EDUCATION RECOMMENDATIONS

It is strongly recommended that the student, in meeting the

## TRANSFER REQUIREMENTS

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The social sciences shall include required instruction in U.S. history, Constitution and American ideals and courses in the fields of anthropology, economics, geography, history, political science, sociology, and similar fields.

Courses must be selected from two or more of these fields.

- (2) Natural Science ..... 9
- Natural sciences shall include the fields of astronomy, botany, chemistry, geology, physics, physiology, zoology, and similar fields. At least one course must be selected from a physical science and one from a life science.
- (3) Literature, Philosophy or the Arts ..... 6
- (Fine and practical arts not to exceed 3 of the 6 units)
- (4) Health and Physical Education ..... 2
- Except as waived by presidents of state colleges in accordance with the law.
- (5) Oral and Written Expression ..... 3
- (6) Psychology ..... 2
- (7) Additional units in General Education to be determined by each college ..... 14

As each college defines these additional units, and since each college may prescribe additional requirements, such as foreign language and mathematics, the student is expected to consult the catalog of the institution to which he intends to transfer.

In most instances it will be to the student's advantage to complete as many of the general education courses as possible during the freshman and sophomore years. This is of great importance to the student, for in his long-range planning he will find that the upper division requirements often do not leave time for general education requirements during the third and fourth years of college work.

### University of California

At the University of California the student must meet not only general university requirements for graduation but those requirements established at the campus he will attend. These requirements include study in the following fields:

1. English
2. Foreign language
3. Mathematics
4. Humanities
5. Natural science
6. Social science

The university urges the transfer student to complete all of these general requirements before the junior and senior years. Requirements in foreign language and mathematics may be met in part by high school preparation. See page 71 for Letters and Science requirements.

### Transfer Credit

In State Colleges, and at the University of California, a maximum of 70 semester units earned in a junior college may be applied toward the bachelor's degree, with the exception that no upper division credit may be allowed for courses taken in junior college and no credit may be allowed for professional courses in education taken in a junior college. Many other colleges and universities also allow credit for 70 units of lower division work completed at a junior college.

If a student expects to transfer to a four-year college, it is of the utmost importance that he obtain the catalog of the college he expects to attend and that he plan a long range program with the assistance of his teacher-counselor. This will be of great benefit in avoiding loss of time by the inclusion of courses that will not meet the requirements of his selected college.

## SUGGESTED CURRICULA

The following majors represent some of the areas of study that may be selected by students who enroll in the Imperial Valley College. Any person who wishes to pursue a curriculum not listed, or who has a particular objective in mind that is not met by a listed curriculum, should consult with his counselor.

It is important that each student make a long-range plan for his college study, in conference with his counselor, so that all requirements for the Associate degree can be met, and so that, if the student expects to transfer to a four-year college, he will have completed all of the prerequisites for the course of study that he expects to pursue.

**Although the counselor will give every assistance possible, it is the final responsibility of the student to check and recheck all phases of his program and his course of study.**

### Transfer Curricula

The Transfer Curricula have been planned to meet the requirements for the Associate degree and at the same



## TRANSFER CURRICULA

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time fulfill the lower division requirements of the field of study that the student expects to pursue in a four-year institution. They have been designed to follow the requirements of San Diego State College, the University of California at Los Angeles or Davis, or California State Polytechnic College. As requirements vary at different colleges and universities, it is of great importance that each student who expects to continue his education after leaving Imperial Valley College obtain the catalog of the institution he expects to attend, and that he make, in consultation with his counselor, the necessary adjustment in the suggested curricula of his choice.

### Transfer Curricula Majors

#### Agriculture

- Animal Husbandry
- Business Management
- Crop Production
- Agriculture Engineering
- Farm Management
- and others (See pages 43 and 44)

#### Business

##### Business Administration

- Accounting
- Law and Finance
- Insurance

##### Management

- Business
- Industrial
- Office
- Employee Relations
- Production
- Secretarial

- Marketing
- Real Estate

##### Business Education

- Biological Science
- Chemistry
- Engineering
- English

## OCCUPATIONAL-VOCATIONAL-TECHNICAL CURRICULA

French

Geography

History

Latin American Studies

Letters and Science

Anthropology

Business Administration

Economics

English

French

History

International Relations

Mathematics

Political Science

Psychology

Public Service

Social Science

Spanish

Zoology

Mathematics

Philosophy

Physics

Pre-professional

Dentistry

Education (teaching)

Law

Medicine

Pharmacy

Veterinary Science

Psychology

Social Science

Sociology

Spanish

### **Occupational-Vocational-Technical Majors**

These curricula have been designed to meet all of the requirements for the Associate degree and at the same time prepare the student for employment.

## SAMPLE CURRICULA

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### Agriculture

- Agricultural Business
- Agricultural Engineering Technology
- Agronomy Technology
- Animal Science Technology

### Automotive Technology

### Business

- Bilingual Secretarial
- Bookkeeping
- General Business
- Merchandising
- Real Estate
- Secretarial

### Engineering Technician

### Vocational Nursing

### Vocational Work-Study

### General Majors

- Biological Science
- Business
- English
- History
- Humanities
- Languages
- Mathematics
- Physical Science
- Social Science

## SAMPLE CURRICULA

The following courses of study have been designed to assist the student in planning his program.

All the California State requirements for graduation from a junior college; the requirements for the Associate degree from Imperial Valley College; and, if applicable and as far as possible, the lower division requirements for majors and minors at San Diego State College, the University of California at Los Angeles or Davis, and California State Polytechnic College have been included in the following sample curricula.

If necessary, the student may schedule classes during other semesters than those suggested. It is important, however, that he check prerequisites and be sure that all classes will be offered in the semester he wishes to take them. In general, year courses should be started in the fall semester.

With proper planning the individual needs of every student can be met with no loss of time or units.

**AGRICULTURE**

Prepares for the junior year at the University of California at Davis and Riverside.

The student who plans to transfer to a College of Agriculture at the University will, during his junior and senior years, complete the curriculum in one of the following areas: Agricultural Business Management, Agriculture Economics, Agricultural Education, Agricultural Production (including representative areas of concentration such as Agronomy, Animal Husbandry, Irrigation, Pomology, Vegetable Crops, etc.) Animal Science, Entomology, Food Science, Home Economics, International Agricultural Development, Irrigation Science, Plant Science (including representative areas of concentration such as Agronomy, Genetics, Plant Pathology, Pomology, Vegetable Crops, etc.) and Soil Science.

The following suggested two year program at IVC presupposes that the student has completed the basic academic core of college preparatory subjects in high school:

**Freshman**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ....		3
		<sup>1</sup> Selected Courses and		
		<sup>2</sup> Electives .....	12-14	12-14
			<hr/>	<hr/>
			15½-17½	15½-17½

**Sophomore**

P.E.		Physical Education Activity	½	½
H.E.	21	Health Education .....	2	
Hist	17AB	History of the United States	3	3
Speech	1A	Speech .....		3
		<sup>1</sup> Selected Courses and		
		<sup>2</sup> Electives .....	11-12	10-11
			<hr/>	<hr/>
			16½-17½	16½-17½

<sup>1</sup>—Selections should be made from the following **required courses**: Botany, Chemistry 1A, 1B, 12; Economics 1A, Physics 2A, 2B or 4A-B-C. In addition, for some curricula, Zoology 1A, 1B. The student must also complete 9 units of Mathematics (each year of high school work may be counted as 3 units).

<sup>2</sup>—Electives should be chosen in terms of the student's area of concentration. They may include Anthropology 1, 2; Bus. 1A, 1B; Econ. 1B; English 52; Philosophy 1A; Political Science 1A, 1B; Psych. 1A; Sociol. 1A.

### AGRICULTURE

Prepares for transfer to a California State College (California State Polytechnic College, Fresno State College, etc.) offering an AB or BS degree in agriculture or one of the agricultural specialties. The student may pursue a major leading to the bachelor's degree in Agricultural Business Management, Agricultural Engineering or Mechanical Agriculture, Agricultural Service and Inspection, Agronomy, Animal Husbandry, Crops or Fruit Production, Dairy Husbandry or Manufacturing, Farm Management, Food Processing, Landscape Architecture, Ornamental Horticulture, Poultry Husbandry or Soil Science. Not all state colleges with departments of agriculture offer all of the majors listed. The student should identify the curriculum he wishes to pursue in the catalog of the state college to which he expects to transfer.

**PROGRAM OUTLINE FOR  
TRANSFER TO A CALIFORNIA STATE COLLEGE  
WITH A MAJOR IN AGRICULTURE**

**Freshman<sup>1</sup>**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
H.E.	21	Health .....	2	
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ...		3
		<sup>2</sup> Required Natural Science (Biological or Physical)	3-5	3-5
		<sup>3</sup> Required Social Science ...	3	3
		<sup>4</sup> Courses for Major and/or Minor .....	3-4	5-6
			14½-17½	14½-17½

**Sophomore**

P.E.		Physical Education Activity	½	½
Psych	1A	General Psychology .....	3	
Speech	1A	Speech .....		3
Hist	17AB	History of the United States	3	3
		<sup>2</sup> Required Natural Science (Alternate from choice above.) .....	3-5	3-5
		<sup>5</sup> Required Philosophy, Literature or Arts .....	3	3
		<sup>4</sup> Courses for Major and/or Minor .....	3-5	3-5
			Not to Exceed 18½	18½

The student should verify the existence of a mathematics or foreign language requirement as specified under "General Education Requirements" of the institution to which he plans to transfer.

<sup>1</sup>—The student ineligible for the recommended transfer program at entrance should enroll in Psych. 50 during his first or second semester.

<sup>2</sup>—Botany 1A, 1B, Zoology 1A, 1B or Chemistry 1A, 1B, 5, 12, Physics 2A, 2B, 4A-B-C and others. See catalog of transfer institution. Unit requirements in designated subjects vary.

<sup>3</sup>—Sociology 1A, Anthropology 2, Geography 1, 2, Economics 1A, History 4A, 4B and others. See catalog of transfer institution. Unit requirements in designated subjects vary.

<sup>4</sup>—See listings in this catalog under Agriculture.

<sup>5</sup>—Philosophy 1A, English 30A, 30B, 52A, 52B, 56A, 56B, Art 50A or 50B and others; see catalog of transfer institution. Unit requirements in designated subjects vary.

**AGRICULTURAL BUSINESS**

Prepares for employment at the end of two years in the field of Agri-Business.

**Freshman**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Psych	50	Personal and Social Development .....		2
Math	51	Basic Mathematics .....	3	
Eng	51AB	English Fundamentals .....	3	3
Ag	1	Introduction to Agricultural and Bus. Management ..	3	
Ag	2	Agricultural Business Organization and Management .....		3
Bus	77AB	Elementary Bookkeeping ..	3	3
Bus	71	Elementary Typwriting .....	3	
Bus	73	Office Machines .....		3
			15½	14½

**Sophomore**

P.E.		Physical Education Activity	½	½
Bus	1AB	Accounting .....	3	3
Bus	30AB	Business Law .....	3	3
Hist	2	Survey of American History .....	3	
Poly Sci	2	Survey of American Government .....		3
Bus	51	Income Tax .....	2	
H.E.	21	Health Education .....		2
Ag	12AB	Truck Crop Production .....	2	2
Ag	30AB	Agricultural Mechanics .....	2	2
			15½	15½

**AGRICULTURAL ENGINEERING TECHNOLOGY**

Prepares for employment at the end of two years.

**Freshman**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	1/2	1/2
Math	51	Basic Mathematics .....	3	
Eng	51AB	English Fundamentals .....	3	3
Ag	33AB	Farm Power .....	2	2
Ag	30AB	Agricultural Mechanics .....	2	2
Hist	2	Survey of American History	3	
Poly Sci	2	Survey of American Government .....		3
H.E.	21	Health Education .....	2	
Ag	32	Irrigation and Drainage .....		3
Math	X	Beginning Algebra .....		3
			<hr/>	<hr/>
			15 1/2	16 1/2

**Sophomore**

P.E.		Physical Education Activity	1/2	1/2
Math	Y	Plane Geometry .....	3	
*Engr Tech	65	Elementary Electricity .....	3	
Ag	1	Introduction to Agricultural Business Management ..	3	
Ag	31AB	Farm Machinery .....	2	2
Ag	34AB	Welding .....	2	2
*Engr Tech	71AB	Technical Drawing .....	3	3
*Engr Tech	59	Mathematics of Industry ...		3
*Engr Tech	78	Agricultural Surveying .....		3
*Engr Tech	73	Introduction to Building Materials .....		2
			<hr/>	<hr/>
			16 1/2	15 1/2

\*Not offered during 1964-65. The student should consult with his counselor or subject area advisor for substitutions to be made during 1964-65 which offer the appropriate subject matter content. The above suggested program is tentative in terms of the starred courses. It is expected that these will be available for 1965-66.



AGRICULTURE

AGRONOMY TECHNOLOGY

Prepares for employment at the end of two years.

Freshman

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Psych	50	Personal and Social Development .....		2
Math	51	Basic Mathematics .....	3	
Eng	51AB	English Fundamentals .....	3	3
Ag	10AB	Field, Cereal, Forage Crops	4	4
Ag	40	Soils .....	3	
Ag	41	Fertilizers & Soil Fertility ....		3
Ag	30AB	Agricultural Mechanics .....	2	2
Ag	33AB	Farm Power .....	2	2
			17½	16½

Sophomore

P.E.		Physical Education Activity	½	½
Ag	11AB	Crop Production .....	2	2
Ag	12AB	Truck Crop Production .....	2	2
Ag	13	Weeds & Poisonous Plants	3	
Ag	14	Introduction to Entomology	2	
Ag	32	Irrigation and Drainage ....		3
Ag	1	Introduction to Agricultural Business Management ..	3	
H.E.	21	Health Education .....		2
Ag	31AB	Farm Machinery .....	2	2
Ag	34A	Welding .....		2
Hist	2	Survey of American History .....	3	
Poly Sci	2	Survey of American Government .....		3
			17½	16½

**ANIMAL SCIENCE TECHNOLOGY**

Prepares for employment at the end of two years.

**Freshman**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Math	51	Basic Mathematics .....	3	
Eng	51AB	English Fundamentals .....	3	3
Ag	20	Introduction to Animal Science .....	3	
Ag	30AB	Agricultural Mechanics .....	2	2
Ag	33AB	Farm Power .....	2	2
Psych	50	Personal and Social Development .....	2	
Poly Sci	2	Survey of American Government .....		3
Ag	21	Feeds and Feeding .....		3
Ag	22	Livestock Judging .....		3
			15½	16½

**Sophomore**

P.E.		Physical Education Activity	½	½
Ag	23	Beef Production .....	3	
Ag	24	Sheep Production .....		3
Ag	31AB	Farm Machinery .....	2	2
Ag	34A	Welding .....	2	
Engr Tech	65	Elementary Electricity .....	3	
Ag	1	Introduction to Agricultural Business Management ..	3	
Ag	2	Agricultural Business Organization and Management .....		3
Ag	40	Soils .....	3	
Ag	41	Fertilizers and Soil Fertility .....		3
H.E.	21	Health Education .....		2
Hist	2	Survey of American History .....		3
			16½	16½

# AUTOMOTIVE TECHNOLOGY

## AUTOMOTIVE TECHNOLOGY

Prepares for employment at the end of two years.

### Freshman

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Psych	50	Personal and Social Development .....	2	
Auto Tech	51AB	Automotive Technology ....	4	4
Math	51	Basic Mathematics .....	3	
Eng	51AB	English Fundamentals .....	3	3
H.E.	21	Health Education .....		2
*Auto Tech	53A	Machine Shop .....		2
Math	9	Technical Math .....		3
Hist	2	Survey of American History .....	3	
Poly Sci	2	Survey of American Government .....		3
			15½	17½

### Sophomore

P.E.		Physical Education Activity	½	½
Auto Tech	52AB	Automotive Technology ....	4	4
*Auto Tech	53B	Machine Shop .....	3	
**Engr Tech	65	Elementary Electricity .....	3	
Engr	51AB	Beginning Welding .....	2	2
**Engr Tech	71AB	Technical Drawing .....	3	3
		Electives .....		5
			15½	14½

\*Not offered Fall, 1964.

\*\*Not offered 1964-65. The student should consult with his counselor or subject area advisor for substitutions to be made during 1964-65 which offer the appropriate subject matter content. The above suggested program is tentative in terms of the starred courses. It is expected that these will be available for 1965-66.

**BUSINESS — BUSINESS ADMINISTRATION**

Prepares for the junior year at San Diego State College.

The following basic course meets the general lower division requirements at San Diego State College in Business Administration for majors offered in Business Law and Finance (finance, insurance, real estate), Business Education (business education, office management), Accounting, Management, and Marketing. Variations for specific majors are noted below.<sup>1</sup>

**Freshman**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Bus	1AB	Elementary Accounting .....	4	4
Bus	30AB	Business Law .....	3	3
Eng	1A	Composition .....		3
		<sup>2</sup> Selected Science Course ....	3	
Econ	1AB	Principles of Economics ....	3	3
		Electives .....	3	3
			16½	16½

**Sophomore**

P.E.		Physical Education Activity	½	½
Hist	17AB	History of the United States	3	3
Psych	1A	General Psychology .....	3	
Speech	1A	Speech .....		3
H.E.	21	Health .....		2
		<sup>3</sup> Selected Course in the Arts	3	
Eng	1B	Introduction to Literature ....	3	
Bus	80	Business Correspondence ..		3
		<sup>2</sup> Selected Science Course ....	3	3
		Elective .....	0-2	2-3

15½-17½ 16½-17½

<sup>1</sup>—For the finance major include Math 21 (SDSC)

For the business education major include Bus 72A, 73 and 75B (IVC).

For the office management major include Bus 73 (IVC) and Math 7 (SDSC)

For the accounting major include Math 21 (SDSC).

For the management major include Math 21 and 22 (SDSC); this major also requires 9 units of approved life science and 9 units of humanities or fine arts in addition to general education requirements.

<sup>2</sup>—A total of at least 9 units of science (including one physical and one biological, and at least one unit of laboratory work) should be scheduled.

<sup>3</sup>—Six units required in the field of the arts, at least three of which must be in literature or philosophy.

**BUSINESS — BILINGUAL SECRETARIAL**

Prepares for employment in the specialized field of secretarial work that requires bilingual ability.

**Freshman**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Eng		<sup>1</sup> English .....		3
		Foreign Language .....	4	4
Bus	16	Introduction to Business ...	3	
Bus		<sup>2</sup> Typewriting .....	2	
Bus	72A	Advanced Typewriting .....		2
Bus	75AB	Shorthand .....	3	3
Math	51	Basic Mathematics .....		3
Psych	50	Personal and Social Development .....	2	2
			14½	17½

**Sophomore**

P.E.		Physical Education Activity	½	½
		Foreign Language .....	0-2	
Bus	67AB	<sup>3</sup> Bookkeeping .....	3	
Bus	72B	Office Procedures .....	4	
Bus	73	Office Machines .....		3
Bus	76A	Advanced Shorthand .....	3	
Bus	76B	Advanced Dictation and Transcription .....		3
Hist	2	Survey of American History .....	3	
Poly Sci	2	Survey of American Government .....		3
		Selected Science Course ...		3
H.E.	21	Health Education .....	2	
Bus	80	Business Correspondence ..		3
			15½-17½	15½

<sup>1</sup>—English 1A or 51A.

<sup>2</sup>—Students should register for the typewriting class for which they have the prerequisites.

<sup>3</sup>—Business 1A-1B, Accounting, may be substituted if the student has the prerequisites.

**BUSINESS — BOOKKEEPING**

Prepares for employment at the end of Sophomore Year.

**Freshman**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Bus	16	Introduction to Business ....	3	
Bus	17	Business Management .....		3
Psych	50	Personal and Social Development .....	2	
Bus	67AB	Bookkeeping .....	3	3
Bus	71	Elementary Typewriting ....	2	
Bus	73	Office Machines .....		3
Eng 1A or	51A	English .....	3	
Bus	71B	Intermediate Typewriting ..		2
Bus	80	Business Correspondence ..		3
H.E.	21	Health .....	2	
		Electives .....	0-2	2-3
			15½-17½	16½-17½

**Sophomore**

P.E.		Physical Education Activity	½	½
Bus	1AB	Accounting .....	3	3
Bus	30AB	Business Law .....	3	3
Bus	51	Income Tax .....	2	
Hist	2	Survey of American History .....	3	
Poly Sci	2	Survey of American Government .....		3
		<sup>2</sup> Selected Natural Science Course .....		3
		<sup>1</sup> Elective .....	4-6	3-4
			15½-17½	15½-16½

<sup>1</sup>—Suggested electives: Business 72AB, Speech 50, English 10AB, Economics, Shorthand, Music, Art, Literature.

<sup>2</sup>—Anthropology, Economics, Geography 1B, History or Sociology.

NOTE: Those interested in Accounting see Business Administration curriculum, page 51.

**BUSINESS — GENERAL BUSINESS**

Prepares for employment at the end of the Sophomore Year.

**Freshman**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Bus	16	Introduction to Business ....	3	
Bus	17	Business Management .....		3
Bus	29	Principles of Marketing .....	3	
Math	51	Basic Mathematics .....	3	
Bus 71 or 72		Typewriting .....	2	
Bus	73	Office Machines .....		3
Eng 1A or 51A		English .....	3	
Bus	80	Business Correspondence ..		3
Speech	50	Basic Speech .....		3
		<sup>1</sup> Selected Business Course ..		3-4
Psych	50	Personal and Social Development .....	2	
			16½	15½-16½

**Sophomore**

P.E.		Physical Education Activity	½	½
Bus	30AB	Business Law .....	3	3
Bus	77AB	Bookkeeping .....	3	3
Hist	2	Survey of American History .....	3	
Poly Sci	2	Survey of American Government .....		3
H.E.	21	Health Education .....		2
		Selective Natural Science ..	3	
		<sup>2</sup> Elective .....	3	4-6
			15½	15½-17½

<sup>1</sup>—Selected business courses should be chosen from two of the following groups:

- I. Bus 27, Introduction to Advertising; Bus 34, Retailing; Bus 50, Salesmanship; Business 19, Elements of Supervision; Business 20, Human Relations for Supervisors.
- II. Bus 21, Real Estate Principles; Bus 36, Personal Finance; Bus 41, Insurance.
- III. Bus 1A-1B, Accounting; Bus 72A, Advanced Typewriting; Bus 72B, Office Procedures.

<sup>2</sup>—Suggested electives: English 10, Music, Art, Literature, Econ 1A-B or additional Business courses.

**BUSINESS — MERCHANDISING**

Prepares for employment at the end of the Sophomore year.

**Freshman**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Bus	16	Introduction to Business ....	3	
Bus	17	Business Management .....		3
Bus	29	Principles of Marketing ....	3	
Bus	30AB	Business Law .....	3	3
Math	51	Basic Mathematics .....		3
Bus 71 or 72		Typewriting .....		2
Eng 1A or 51A		English .....	3	
Bus	80	Business Correspondence ..		3
Psych	50	Personal and Social Development .....	2	
		Electives .....	1-2	1-2
			15½-16½	15½-16½

**Sophomore**

P.E.		Physical Education Activity	½	½
Hist	2	Survey of American History .....	3	
Poly Sci	2	Survey of American Government .....		3
Speech	50	Basic Speech .....	3	
Bus	27	Introduction to Advertising		3
Bus	34	Retailing .....	3	
Bus	50	Salesmanship .....		3
Bus	67AB	Bookkeeping .....	3	3
Bus	73	Office Machines .....		3
H.E.	21	Health Education .....	2	
		Selected Natural Science ..	3	
			17½	15½

<sup>1</sup>—Business 1A-1B, Accounting, may be elected instead of Business 77A-77B, Bookkeeping.



**BUSINESS**

**BUSINESS — REAL ESTATE**

Prepares for employment at the end of Sophomore year.<sup>1</sup>

**Freshman**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Bus	30AB	Business Law .....	3	3
Bus	40	Principles of Real Estate ....	3	
Bus	41	Real Estate Practices .....		3
Bus	43	Real Estate Finance .....		3
Bus	80	Business Correspondence ..		3
Eng	51A or 1A	English .....	3	
Hist	17AB	<sup>2</sup> History of the United States	3	3
		Psychology or Sociology ....	2-3	
H.E.	21	Health Education .....	2	
			16½-17½	15½

**Sophomore**

P.E.		Physical Education Activity	½	½
Bus	17	Business Management .....		3
Bus	42	Real Estate Law .....	3	
Bus	44	Real Estate Appraising .....	3	
Bus	45	Trends and Factors .....		3
Bus	50	Salesmanship .....	3	
Bus	77AB	Bookkeeping .....	3	3
		Selected Natural Science ..		3
Speech	50	Basic Speech .....	3	
		<sup>3</sup> Electives .....		3
			15½	15½

<sup>1</sup>—This program meets all requirements for the Imperial Valley College Real Estate Certificate as well as for the Associate in Arts degree.

<sup>2</sup>—History 2 or Poly Sci 2 may be substituted.

<sup>3</sup>—Suggested electives: Econ 1A-1B, psychology, sociology, geography, or mathematics.

**BUSINESS — REAL ESTATE CERTIFICATE PROGRAM<sup>1</sup>**

On the satisfactory completion of the following courses, the student will be eligible for the **California Junior College Real Estate Certificate** which is issued in cooperation with the California Division of Real Estate and the California Real Estate Association under their Education and Research Program.

			<b>Units</b>
Business	40	Real Estate Principles .....	3
Business	41	Real Estate Practices .....	3
Business	42	Real Estate Law .....	3
Business	43	Real Estate Finance .....	3
Business	44	Real Estate Appraising .....	3
Business	45	Real Estate Trends and Factors .....	3
Plus nine units from the following courses or from business courses approved by the Counselor: .....			9
Total units —			27

Business	17	Business Management
Business	30AB	Business Law (6 units total)
Business	34	Retailing
Business	50	Salesmanship
Economics	1AB	Principles of Economics

<sup>1</sup>—This program fulfills requirements for the California Junior College Real Estate Certificate but does not fulfill requirements for the Associate in Arts degree. For degree requirements see preceding course of study.

**BUSINESS — SECRETARIAL**

Prepares for employment at the end of the Sophomore year.

**Freshman**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Bus	16	Introduction to Business ....	3	
Math	51	Basic Mathematics .....		3
Bus	77AB	<sup>1</sup> Bookkeeping .....	3	3
Bus	71AB	<sup>2</sup> Typewriting .....	2	2
Bus	73	Office Machines .....		3
Bus	75AB	<sup>3</sup> Shorthand .....	3	3
Eng 1A or	51A	English .....	3	
Psych	50	Personal and Social Development .....	2	
H.E.	21	Health Education .....		2
			16½	16½

**Sophomore**

P.E.		Physical Education Activity	½	½
Bus	30AB	Business Law .....	3	3
Bus	72A	Advanced Typewriting .....	2	
Bus	72B	Office Procedures .....		4
Bus	76A	<sup>3</sup> Advanced Shorthand .....	3	
Bus	76B	<sup>3</sup> Advanced Dictation and Transcription .....		3
Bus	80	Business Correspondence ..		3
Hist	2	Survey of American History .....	3	
Poly Sci	2	Survey of American Government .....		3
Speech	50	Basic Speech .....	3	
		Selected Natural Science ..	3	
			17½	16½

<sup>1</sup>—Business 1AB, Accounting, may be substituted on approval of the instructor.

<sup>2</sup>—Three semesters of typewriting or equivalent are required.

<sup>3</sup>—Four semesters of shorthand or equivalent are required.

NOTE: Those who enter the Secretarial major with previous training in typing and shorthand may elect any of the following: Bus 17, 29, 34, 36, English 10AB.

## CHEMISTRY

Prepares for junior year at San Diego State College.

## Freshman

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Chem	1AB	General Inorganic Chemistry .....	5	5
Math	3AB	Analytic Geometry and Calculus .....	5	5
Physics	4A	Principles of Physics .....		4
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ...		3
H.E.	21	Health .....	2	
			15½	17½

## Sophomore

P.E.		Physical Education Activity	½	½
Chem	5	Elementary Quantitative Analysis .....	4	
Chem	12	Organic Chemistry .....		4
Math	4A	Calculus and Differential Equations .....	4	
Physics	4BC	Principles of Physics .....	4	4
Hist	17AB	History of United States ...	3	3
Speech	1A	Speech .....	3	
Psych	1A	General Psychology .....		3
		<sup>1</sup> Selected Course .....		3
			18½	17½

<sup>1</sup>—Course should be selected from biological science, literature, philosophy, art, music, anthropology, economics, geography, history or sociology, to help meet General Education requirements as listed on page 35.

**EDUCATION**

**THE STANDARD TEACHING CREDENTIAL WITH  
A SPECIALIZATION IN ELEMENTARY TEACHING**

Prepares the student for the junior year at San Diego State College. The transfer student admitted to SDSC must apply for admission to Teacher Education as soon as he enrolls in the college.

The following is a suggested basic program for students who wish to prepare for specialization in elementary teaching. The student should include prerequisites for his teaching major and minor within the framework of this program.

**Freshman**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ..		3
Hist	17AB	History of the United States	3	3
Art	9	Design .....	3	
Geog	1, 2	Geography .....	3	3
H.E.	21	Health Education .....		2
		Physical Science .....		3
		Electives .....	0-2	0-2
		Courses in Major or Minor	2	

14½-16½ 14½-16½

**Sophomore**

P.E.		Physical Education Activity	½	½
Music	7A	Music Fundamentals .....	3	
		Literature or Philosophy ..		3
P.E.	53	Games and Activities .....		3
Psych	1A	General Psychology .....	3	
Biol	3	Biological Science .....	3	
Math	18	Introduction to Mathematics .....	3	
		Physical Science .....		3
Speech	1A	Public Speaking .....		3
		Courses in Major or Minor	3-4	3-4

15½-16½ 15½-16½

<sup>1</sup>—Six units required from the following: Astron 1; Chemistry 1A or 2A; Geol 1A; Physical Science 5; Physics 2A or 4A.

<sup>2</sup>—Electives should be selected to complete the prerequisites for the teaching major and minor. At SDSC the following elementary teaching majors and minors are offered.

**List of Majors (SDSC)**

Art	French	Physics
Chemistry	German	Social Sciences
English	Physical Sciences	Spanish
Fine Arts		Continued on following page

## EDUCATION

THE STANDARD TEACHING CREDENTIAL WITH  
A SPECIALIZATION IN SECONDARY TEACHING

The student who plans to complete a program for the Standard Teaching Credential with Specialization in Secondary Teaching at San Diego State College must complete a major and a minor selected from the lists below. He should follow the curriculum of the major field at Imperial Valley College and should include, as electives, the prerequisite courses for upper division work in the minor field.

Not all of the majors and minors indicated are available at Imperial Valley College; however, with proper planning the student should be able to complete the combination of his choice since teaching majors and minors need not be completed until the end of the fifth year. The student will ordinarily have to complete a major and a minor for the bachelor's degree.

**List of Majors (SDSC)**

Art	Home Economics	Physical Sciences
Biology	Industrial Arts	Physics
Business Education	Mathematics	Psychology
Chemistry	Music	Russian
English	Physical Education	Social Sciences
French	(Men)	Spanish
German	Physical Education	Speech and Drama
Health Sciences	(Women)	

**List of Minors (SDSC)**

Art	Health Sciences	Physics
Biology	History	Psychology
Business Education	Home Economics	Russian
Chemistry	Industrial Arts	Spanish
Economics	Mathematics	Speech and Drama
English	Music	Specialization in
French	Physical Education	(a) Librarianship
Geography	(Men)	(b) Teaching of
German	Physical Education	Exceptional Children
	(Women)	

The student who desires to transfer to the University of California should follow, at this campus, the program of studies which parallels the requirements for the bachelor's degree established by the College of Letters and Science on the University campus (e.g. San Diego, Irvine, Riverside, Los Angeles, etc.) of his choice. (See page 71.)

In every case the student should consult the catalogs, on file in the IVC counseling office, of the school he wishes to attend in his junior, senior and graduate years to be sure that all prerequisites are met.

Continued from preceding page

**List of Minors (SDSC)**

Biology	Health Sciences	Russian
Chemistry	Industrial Arts	Spanish
English	Mathematics	Speech and Drama
French	Music	Specialization in
Geography	Physical Education	(a) Librarianship
German	Physics	(b) Teaching of
	Psychology	Exceptional Children

## ENGINEERING

Prepares for the Junior year of college work.<sup>1</sup>

Freshman<sup>2</sup>

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ....		3
Chem	1A	General Inorganic Chemistry .....	5	
Math	3AB	Analytical Geometry and Calculus .....	5	5
Physics	4A	Principles of Physics .....		4
Engr	2AB	Engineering Drawing .....	3	3
Engr	8	Slide Rule .....		1
Engr	61	Orientation to Engineering	1	
			17½	16½

## Sophomore

P.E.		Physical Education Activity	½	½
H.E.	21	Health Education .....		2
Physics	4BC	Principles of Physics .....	4	4
Math	4A	Calculus and Differential Equations .....	4	
Hist	17AB	History of the United States	3	3
Engr	10	Engineering Problems .....		3
Engr	21	Descriptive Geometry .....		3
Engr	28A	Plane Surveying .....	3	
Engr	50AB	Statics and Dynamics .....	3	3
			17½	18½

<sup>1</sup>—Widely diversified avenues of professional engineering education are available in private colleges, state colleges, and the universities. The required subject material in the first two years is similar; however, differences do exist among the senior institutions. The junior college student should consult with his counselor and advisor and study the catalog of the senior institution to which he expects to transfer.

<sup>2</sup>—The student ineligible for the recommended program at entrance should enroll in Psych 50 during his first and second semester.

**ENGINEERING TECHNICIAN**

Prepares for employment at the end of two years as an engineering technician.

**Freshman**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Eng		<sup>1</sup> English Sequence .....	3	3
Chem	2	Introduction to Chemistry ..	4	
Phy Sci	5	Introduction to Physical Science .....		4
Math		<sup>2</sup> Mathematics .....		3
Math		<sup>2</sup> Mathematics .....	3	
Engr	2AB	Engineering Drawing .....	3	3
Engr	8	Slide Rule .....		1
Engr	51AB	Beginning Welding .....	2	2
Engr	61	Orientation to Engineering	1	
Psych	50	Personal and Social Development .....		2
			16½	18½

**Sophomore**

P.E.		Physical Education Activity	½	½
Hist	2	Survey of American History .....	3	
Poly Sci	2	Survey of American Government .....		3
		<sup>2</sup> Mathematics .....	3	
Ag	32	Irrigation and Drainage ...		3
Math		Mathematics .....		3
Math		<sup>2</sup> Mathematics .....	3	
Engr	10	Engineering Problems .....		3
Engr	21	Descriptive Geometry .....	3	
Engr	28AB	Plane Surveying .....	3	3
H.E.	21	Health Education .....	2	
			17½	15½

<sup>1</sup>—English Sequence: See graduation requirement for English, page 35.

<sup>2</sup>—Mathematics courses to be taken by the student will be determined by his placement on the mathematics examination administered prior to matriculation. Courses will be taken in this order: 051, 51, X, Y, A, 9, C.



## ENGLISH

Prepares for the junior year at San Diego State College.

Freshman<sup>1</sup>

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ..		3
		<sup>2</sup> Selected Social Science Course .....	3	
Hist	17AB	United States History .....	3	3
Math	18	Introduction to Mathematics	3	
		<sup>3</sup> Foreign Language .....	4	4
		<sup>4</sup> Selected Science .....		3-4
H.E.	21	Health .....		2
			16½	15½-16½

## Sophomore

P.E.		Physical Education Activity	½	½
Eng	30AB	American Literature .....	3	3
		<sup>4</sup> Selected Science .....	3-4	3-4
Psych	1A	General Psychology .....	3	
Eng	56AB	Survey of English Literature .....	3	3
Speech	1A	Speech .....		3
		Foreign Language .....	0-4	
		Selected Social Science .....		3
		<sup>4</sup> Elective .....	0-4	2-3
			Not to Exceed 18½	18½

<sup>1</sup>—The student ineligible for the recommended program at entrance should enroll in Psych 50 during his first semester.

<sup>2</sup>—See General Education requirements, page 35.

<sup>3</sup>—A reading knowledge of a foreign language is required. Proficiency may be demonstrated by course work (ordinarily 12 units) or by examination.

<sup>4</sup>—See General Education requirements, page 35.

## FRENCH

Prepares for the junior year at San Diego State College.

Freshman<sup>1</sup>

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
French	1,2	French .....	4	4
Spanish		<sup>2</sup> Spanish .....	4	4
Hist	17AB	History of the United States	3	3
		<sup>3</sup> Selected Science Course ....	3	3
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ....		3
			17½	17½

## Sophomore

P.E.		Physical Education Activity	½	½
French	3,4	French .....	4	4
Psych	1A	General Psychology .....		3
Hist	4AB	History of Western Civilization .....	3	3
		<sup>3</sup> Selected Science Course ....	3-4	
		<sup>3</sup> Selected Literature, Music, Art or Philosophy .....		3
Speech	1A	Speech .....	3	
H.E.	21	Health .....		2
Math	18	Introduction to Mathematics	3	
			16½-17½	15½

<sup>1</sup>—The student ineligible for the recommended program at entrance should enroll in Psych 50 during his first or second semester.

<sup>2</sup>—A major in French requires a year course in Spanish, German, Russian, or Latin (German, Russian, or Latin may be taken in the junior year if desired.)

<sup>3</sup>—See General Education requirements, page 35.

## GEOGRAPHY

Prepares for the junior year at San Diego State College.

Freshman<sup>1</sup>

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Geog	1, 2	Physical and Cultural Geography .....	3	3
		<sup>2</sup> Foreign Language .....	0-4	0-4
Hist	17AB	History of the United States	3	3
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ...		3
Speech	1A	Speech .....	3	
		<sup>3</sup> Selected Science .....	3-5	3-5
		<sup>3</sup> Electives .....	0-2	0-3
Not to exceed			17½	17½

## Sophomore

P.E.		Physical Education Activity	½	½
		<sup>2</sup> Foreign Language .....	0-4	0-4
		<sup>5</sup> Selected Music, Literature, .. Art, Philosophy .....	3	3
Psych	1A	General Psychology .....	3	
Geol	1AB	Physical and Historical Geology .....	4	4
Math	18	Introduction to Mathematics	3	
H.E.	21	Health .....		2
		<sup>4</sup> Electives .....	0-3	0-8
Not to exceed			18½	18½

<sup>1</sup>—The student ineligible for the recommended program at entrance should enroll in Psych 50 during his first or second semester.

<sup>2</sup>—A reading knowledge of French, Spanish or German is recommended for the Geography major.

<sup>3</sup>—See General Education requirements, page 35.

<sup>4</sup>—Suggested electives: Sociology, Anthropology, History, Speech 1B, English 15, Psychology 1B or requirements for General Education.

<sup>5</sup>—Fine and practical arts not to exceed 3 of the 6 units.

**HISTORY**

Prepares for the junior year at San Diego State College.

**Freshman<sup>1</sup>**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Hist	4AB	History of Western Civilization .....	3	3
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ..		3
Psych	1A	General Psychology .....		3
Speech	1A	Speech .....	3	
H.E.	21	Health .....		2
		<sup>2</sup> Selected Science .....	3-4	3-4
		<sup>3</sup> Foreign Language .....	0-4	0-4
		<sup>4</sup> Electives .....	0-4	
Not to exceed			17½	17½

**Sophomore**

P.E.		Physical Education Activity	½	½
Hist	8AB	History of the Americas .....	3	3
Hist	17AB	History of the United States	3	3
Econ	1AB	Economics .....	3	3
Math	18	Introduction to Mathematics	3	
		<sup>2</sup> Selected Science .....		3
		<sup>2</sup> Selected Art, Music, Literature or Philosophy	3	3
		<sup>4</sup> Elective .....	2-3	2-3
17½-18½			17½-18½	

<sup>1</sup>—The student ineligible for the recommended program at entrance should enroll in Psych 50 during his first or second semester.

<sup>2</sup>—See General Education requirements, page 35.

<sup>3</sup>—A reading knowledge of a foreign language is required. Proficiency may be demonstrated by course work (ordinarily 12 units) or by examination.

<sup>4</sup>—Suggested electives: Political Science 1A-1B, Foreign Language, Speech 1B, Psychology 1B, Business 71, English 15, or additional General Education requirements.

**LATIN AMERICAN STUDIES**

Prepares for the junior year at San Diego State College.

To receive the AB degree in Latin American Studies from San Diego State College a student must have a reading and speaking knowledge of Spanish or Portuguese.

**Freshman**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Hist	17AB	United States History .....	3	3
H.E.	21	Health .....	2	
Speech	1A	Speech .....		3
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ..		3
		<sup>1</sup> Selected Science .....	3- 4	3- 4
		<sup>2</sup> Selected Prerequisite Course .....	3	3
		<sup>3</sup> Elective .....	0- 3	0- 3
			15½-18½	16½-19½

**Sophomore**

P.E.		Physical Education Activity	½	½
		<sup>2</sup> Selected Prerequisite Course .....	3	3
		<sup>2</sup> Selected Prerequisite Course .....	3	3
Span	3-4	<sup>4</sup> Intermediate Spanish or Elective .....	4	4
		<sup>1</sup> Selected Science .....	3	
Psych	1A	General Psychology .....		3
		Selected Music, Art, Philosophy .....		3
Math	18	Introduction to Mathematics	3	
			16½	16½

<sup>1</sup>—See General Education requirements, page 35.

<sup>2</sup>—Three 6 unit courses from Anthropology 1, 2; Economics 1AB; Geography 1, 2; and History 8AB are prerequisites for the major in Latin American Studies.

<sup>3</sup>—Suggested electives: Additional General Education courses or History 8A-8B; Speech 1B; Psychology 1B; English 15; Business 71; additional music, art, philosophy, or literature.

<sup>4</sup>—The scheduling of Spanish courses should meet the individual needs of the student. A reading and speaking knowledge of Spanish or Portuguese is required.

## LAW ENFORCEMENT

Prepares for employment at the end of two years.

## Freshman

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Eng		<sup>2</sup> English Sequence .....	3	3
Law Enf	1	Survey of Law Enforcement	3	
Law Enf	2	Police Patrol Procedures ...		3
Law Enf	3	Criminal Law .....	3	
Law Enf	4	Criminal Investigation .....	3	
Law Enf	5	Criminal Evidence .....		3
Police	6	Criminal Procedures .....		3
		<sup>3</sup> Minor electives .....	3	3
			15½	15½

## Sophomore

P.E.		Physical Education Activity	½	½
Hist	17AB	History of the United States	3	3
P.E.	21	Health Education .....	2	
Speech	1A	Speech .....		2
Law Enf	7	Juvenile Court .....	3	
Law Enf	8	First Aid .....		1
Law Enf	9	Defensive Tactics .....	2	
Law Enf	10	Traffic Control and Traffic Accident Investigation ...		3
		<sup>3</sup> Minor electives .....		3
		<sup>4</sup> Electives .....	5- 6	4- 6
			15½-16½	16½-18½

<sup>1</sup>—This course meets the requirements for the Associate in Arts degree and at the same time fulfills the requirements for the certificate of completion of a basic police training course.

<sup>2</sup>—English sequence may be chosen from the following courses: English 51A-51B; English 1A-1B; or English 1A plus three units selected from English 15, English 56A, Journalism, or Speech.

<sup>3</sup>—A minor, which consists of nine units from a single field, is required for graduation.

<sup>4</sup>—Suggested electives: Sociology 1A-1B, Psychology 1A-1B, Business 30A-30B, Speech 1B, Political Science 1A-1B.

## LAW ENFORCEMENT

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### LAW ENFORCEMENT CERTIFICATE PROGRAM<sup>1</sup>

A certificate of completion of a basic law enforcement course is presented on completion of the following courses:

			Units
Law Enf	1	Survey of Law Enforcement .....	3
Law Enf	2	Police Patrol Procedures .....	3
Law Enf	3	Criminal Law .....	3
Law Enf	4	Criminal Investigation .....	3
Law Enf	5	Criminal Evidence .....	3
Law Enf	6	Criminal Procedure .....	3
Law Enf	7	Juvenile Control .....	3
Law Enf	9	Defensive Tactics .....	2
Law Enf	10	Traffic Control and Traffic Accident Investigation .....	3
H.E.	22	First Aid .....	1
			Total 27 Units

<sup>1</sup>—For Law Enforcement Training Program leading to the Associate of Arts Degree see the preceding page.

## LETTERS AND SCIENCE

## University of California

(Berkeley, Davis, Los Angeles, Riverside, Santa Barbara)

The college of Letters and Science is the four-year undergraduate, non-professional college on each of the five undergraduate campuses of the University. It is likely that, in the near future, other campuses will add colleges of Letters and Science as the University responds to the demands for university training at the undergraduate level.

Requirements in Letters and Science on all campuses are similar but not identical. The requirements of the College of Letters and Science, University of California at Los Angeles are set forth below so that the student who plans to complete two years at IVC may identify those courses at UCLA having parallels at IVC. Since L & S requirements vary from campus to campus, the student desiring to transfer to a campus other than UCLA will have to check L & S requirements with the Counseling Office.

## UNIVERSITY OF CALIFORNIA

## Los Angeles

REQUIREMENTS OF THE  
COLLEGE OF LETTERS AND SCIENCE

Note: Courses at IVC, if different in number, are enclosed in parentheses. UCLA courses not offered at IVC are followed by an asterisk.

- A. English: English 1A with a grade of C or better.
- B. Foreign Language: 16 units in not more than two languages. High school courses with grades of C or better may be used thus:
- |                        |   |          |
|------------------------|---|----------|
| 2 yrs. in one language | = | 4 units  |
| 3 yrs. in one language | = | 8 units  |
| 4 yrs. in one language | = | 12 units |
- C. Elementary algebra and plane geometry: completed in high school or other accredited institution.
- D. Humanities: Two of the 3 groups listed. Lower division courses which may be used to meet this requirement are:
- Literature: At least 4 units in the original language or in translation  
English 30A, 30B, 46A, 46B (56A, 56B)  
Humanities 1A\*, 1B\*  
Latin 4\*
  - Philosophy: A six-unit lower division year course.  
Philosophy 6A-6B (1A-1B)



## LETTERS AND SCIENCE

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3. The Arts: At least 4 units.  
Art 1A, 1B (50A, 50B) 5\* or 7\*  
Integrated Arts 1A-1B\*  
Music 20A-20B\*, 30A, 30B  
Theatre Arts 5A (Dramatic Art 5A)
  
- E. Natural Sciences: At least 5 units in physical science and at least 5 units in biological science. Lower division courses which may be used to meet this requirement are listed below.
  1. Physical Science: Astronomy 1  
Chemistry 1A, 2, 2A\*, 3A\*  
Geography 1  
Geology 2, 2L (1A), 3 (1B)  
Mathematics 1 or 3A or 5A\* or 5B\* or 37A\* or 37B\* or Statistics 1 (12) or Philosophy 31\*  
Meteorology 3\*  
Physics 1A, 1B, 1C, 1D (4A, 4B, 4C), 2A, 2B, 10\*
  2. Biological Science: Anthropology 1  
Bacteriology 1\*, 4\*, 5\*, 6\*  
Biology 12\*  
Botany 1 (1A), 2 (1B), 3\*  
Life Science 1A-1B\*  
Psychology 1B\*  
Zoology 1A, 1B
  
- F. Social Sciences:
  1. A lower division year course in history:  
History 1A-1B (4A-4B) or 5A-5B\* or 6A-6B\*, 7A-7B (17A-17B) or 8A-8B
  2. At least 6 units including courses in at least two subjects chosen from the following list:  
Anthropology 2  
Economics 1A, 1B, 13\*  
Geography 2  
Political Science 1, 2  
Psychology 1A  
Public Health 5\*  
Sociology 1 (1A)

Majors in the College of Letters and Science that may be pursued at IVC include Anthropology, Business Administration, Economics, English, French, History, International Relations, Mathematics, Political Science, Psychology, Public Service, Spanish and Zoology. For a complete list of majors the student

## LETTERS AND SCIENCE

should consult the appropriate campus catalog available in the Counseling Office.

The following pattern based upon the above L & S requirements may be used by the student in planning his two-year program at IVC. It presupposes that the student has completed the basic academic core of college preparatory subjects in high school.

### Freshman

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ..		3
		Natural Science (Physical)	3-4	3-4
		Social Science .....	3	3
		Humanities Course .....	3	3
		Prerequisites for major and/or minor or electives	3-4	3-4
H.E.	21	Health .....		2
Not to exceed			18½	18½

### Sophomore

P.E.		Physical Education Activity	½	½
		Foreign Language or Elective .....	0-4	0-4
Hist	17AB	History of the United States	3	3
		Natural Science (Biological)	3-4	3-4
		Humanities .....	3	3
		Prerequisites for major and/or minor or electives	2-4	2-4
Not to exceed			18½	18½

## LIBERAL ARTS

### LIBERAL ARTS — TWO YEAR CURRICULUM

The Liberal Arts Curriculum is designed for those who desire to continue their general education for two years beyond high school and who wish to increase the scope of their knowledge without necessarily preparing for a specific occupation.

<b>Freshman</b>				
Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Eng		<sup>1</sup> English Sequence .....	3	3
		<sup>2</sup> Courses in Selected Major Field .....	5- 6	5- 6
		<sup>3</sup> Courses in Selected Minor Field .....	3	3
H.E.	21	Health .....	2	
		Elective .....	1- 3	3- 5
			14½-17½	14½-17½
<b>Sophomore</b>				
P.E.		Physical Education Activity	½	½
Hist	17AB	United States History .....	3	3
		<sup>2</sup> Courses in Selected Major Field .....	6	6
		<sup>3</sup> Courses in Selected Minor Field .....	3	3
Math		<sup>4</sup> Selected Mathematics Course .....		3
		Electives .....	3- 6	0- 3
			15½-18½	15½-18½

<sup>1</sup>—English sequence may be chosen from the following courses: English 1A-1B; or English 51A-51B; or English 1A plus 3 units from English 52, English 56A, Journalism, or Speech.

<sup>2</sup>—The student should select one of the following majors. (A major consists of 20 or more units of work in related subjects.)

**Biological Science** (Anatomy, Biology, Botany, Psychology, Physiology, Zoology)

**Business**

**English** (English, Journalism, Speech)

**History**

**Humanities** (Art, Dramatic Art, Music, Literature, Philosophy)

**Languages** (English, French, Spanish)

**Mathematics** (Mathematics, Engineering, Physics)

**Physical Science** (Physical Science, Chemistry, Physical Geography, Geology, Physics)

**Social Science** (Anthropology, Economics, Education, Cultural Geography, History, Psychology, Sociology)

<sup>3</sup>—The student should select a minor from the above list. (A minor consists of 9 or more units of work in related subjects.)

<sup>4</sup>—Selected course determined by score on placement test.

**MATHEMATICS**

Prepares for the junior year at San Diego State College.

**Freshman<sup>1</sup>**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Math	3AB	Analytic Geometry and Calculus .....	5	5
French	1,2	<sup>2</sup> Elementary French .....	4	4
Eng	1A	Composition .....	3	
H.E.	21	Health Education .....		2
Biol	3	Introduction to Biological Science .....		3
		<sup>3</sup> Literature, Philosophy, or the Arts .....	3	
		<sup>4</sup> Social Science .....		3
			15½	17½

**Sophomore**

P.E.		Physical Education Activity	½	½
Math	4A	Calculus & Differential Equations .....	4	
French	3	Intermediate French .....	4	
Psych	1A	General Psychology .....		3
Physics		<sup>5</sup> Physics .....	4	4
Hist	17AB	History of the United States	3	3
Speech	1A	Speech .....	3	
		<sup>4</sup> Social Science .....		3
		<sup>3</sup> Literature, Philosophy, or the Arts .....		3
			18½	16½

<sup>1</sup>—The student ineligible for the recommended program at entrance should enroll in Psych 50 during his first or second semester.

<sup>2</sup>—Twelve units of a foreign language (or equivalent) are required.

<sup>3</sup>—A total of 6 units is required. These may be selected from either Art 50 or Music 30A, and any courses in philosophy or literature.

<sup>4</sup>—In addition to History 17AB, two 3-unit courses in Social Science are required. Choice may be made from either Anthropology 1 or 2, Economics 1A, Geography 2, or Sociology 1.

<sup>5</sup>—Physics 2A-B, or 4A-B

### VOCATIONAL NURSING

The purpose of vocational nursing education is to develop and train the student to assume a significant role in the nursing profession as a licensed vocational nurse in accordance with the standards prescribed by the California State Board of Vocational Nurse Examiners.

The licensed vocational nursing program at Imperial Valley College is currently conducted in cooperation with the California State Department of Employment under the auspices of the Manpower Development Training Act.

Students interested in the program should make application through the State Department of Employment, 100 N. Imperial, El Centro. Eligible applicants are appointed to a beginning class only after having passed both screening tests administered by the Department of Employment and personal interviews conducted by the College nursing staff.

Trainees who successfully complete the 48-week program will receive 45 units of credit applicable toward the unit requirement established by the college for the AA or AS degree. Work outside the LVN program should include English 51A and 51B; History 2; Political Science 2; and Sociology 1A.

For students completing the 45 unit sequence the College graduation requirement in health education (H.E. 21) is waived.

Students who wish to become candidates for the AA or AS degrees are required to enroll in a physical education activity class unless exempt.

The curriculum is as follows:

## VOCATIONAL NURSING

### PART I

Medical and Surgical Conditions  
Fundamentals of Nursing Arts (probationary period)

Course	Unit Value (Indicated to illustrate relative weight only)
Obstetrical nursing )	
Reproductive System )	5
Care of Newborn )	
Digestive System	4
Circulatory System	4
Musculo-Skeletal System	4
	<hr/>
	17

### PART II

Respiratory System	2
Excretory System	2
Nervous System	4
Endocrine System	3
	<hr/>
	11

### PART III

Geriatrics	2
Professional Relations)	
Community Problems )	2
Pediatrics	3
Medical Fundamentals	5
Surgical Fundamentals	5
	<hr/>
	17

Total Credit 45\*

\*N.B. The above program is an integrated program composed of clinical and classroom experiences conducted at the participating hospitals and the College. Partial credit will not be granted. Only those students who successfully complete the entire program are eligible to receive credit.

## PHILOSOPHY

Leads to the junior year at San Diego State College in Liberal Arts and Sciences.

Freshman<sup>1</sup>

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Phil	1AB	Introduction to Philosophy	3	3
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ....		3
Hist	4AB	History of Western Civilization .....	3	3
		Selected Science .....		3-4
		<sup>2</sup> Foreign Language .....	4	4
		<sup>3</sup> Selected Social Science .....	3	
			16½	16½-17½

## Sophomore

P.E.		Physical Education Activity	½	½
		Selected Science .....	3-4	3-4
Psych	1A	General Psychology .....	3	
Phil	20	Logic .....		3
H.E.	21	Health Education .....		2
Speech	1A	Speech .....		3
Hist	17AB	History of the United States	3	3
Math	18	Introduction to Mathematics	3	
		<sup>3</sup> Selected Social Science .....		3
		<sup>2</sup> Foreign Language .....	4	
			16½-17½	16½-18½

<sup>1</sup>—The student ineligible for the recommended program at entrance should enroll in Psych 50 during his first or second semester.

<sup>2</sup>—Twelve units of a foreign language or equivalent are required for the major. French or German is recommended.

<sup>3</sup>—Two courses should be selected from the following: Anthropology 1 or 2, Economics 1A, Geography 2, or Sociology 1.

## PHYSICS

Prepares for the junior year at San Diego State College.

## Freshman

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Physics	4A	Principles of Physics .....		4
Chem	1AB	General Inorganic Chemistry .....	5	5
Math	3AB	Analytic Geometry and Calculus .....	5	5
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ....		3
		<sup>1</sup> Selected Social Science .....	3	
			16½	17½

## Sophomore

P.E.		Physical Education Activity	½	½
Physics	4BC	Principles of Physics .....	4	4
Math	4A	Calculus and Differential Equations .....	4	
Hist	17AB	History of the United States	3	3
Speech	1A	Speech .....	3	
H.E.	21	Health Education .....		2
Psych	1A	General Psychology .....	3	
		<sup>2</sup> Selected Biological Science		3-4
		<sup>3</sup> Selected Course in Literature, Art, or Philosophy .....		3
			17½	15½-16½

<sup>1</sup>—Social Science to be chosen from Anthropology, Economics, Geography, History or Sociology.

<sup>2</sup>—Biological Science to be chosen from Anatomy, Biology, Physiology, or Zoology.

<sup>3</sup>—Three units are needed to complete the fine arts requirements.



**PRE-PROFESSIONAL CURRICULA**

It is possible for a student to complete, in addition to the professional curricula listed, one to two years of the PRE-CHIROPRACTIC, PRE-DENTAL, PRE-LEGAL, PRE-LIBRARIAN, PRE-MEDICINE, PRE-OPTOMETRY, PRE-SOCIAL WELFARE, PRE-VETERINARY, or other pre-professional courses at Imperial Valley College. The student who is interested in one of the professions should consult with his counselor and plan a specific course of study that will meet the requirements of the professional school or college to which he expects to transfer.

**PSYCHOLOGY**

Prepares for the junior year at the University of California at Los Angeles.

<b>Freshman</b>				
Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Psych	1AB	General Psychology .....	3	3
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ....		3
Hist	17AB	History of the United States	3	3
		<sup>1</sup> Electives, including foreign language .....	8	8
			17½	17½
<b>Sophomore</b>				
P.E.		Physical Education Activity	½	½
Anthro	2	Cultural Anthropology .....		3
Soc	1A	Principles of Sociology .....	3	
H.E.	21	Health Education .....	2	
Speech	1A	Speech .....		3
		<sup>1</sup> Electives, including foreign language .....	12	12
			17½	18½

<sup>1</sup>—In preparation for the major leading to the bachelors degree only, work in the following areas is recommended according to the student's interest:

- (a) natural science such as physics, chemistry, zoology, physiology;
- (b) social science such as anthropology, sociology, economics, political science, history;
- (c) mathematics, statistics;
- (d) humanities such as philosophy, languages, literature, art, music, drama.

Recommended for students who expect to do graduate study in psychology, at least 18 units, distributed among the following: (a) 6 units of cultural or social anthropology and/or sociology; (b) not less than 3 units of college chemistry; (c) one year of college physics, including laboratory; (d) college algebra and analytic geometry or mathematics for the social and life sciences; (e) not less than one year of work chosen from the following: general zoology, elementary physiology, elementary zoology and physiology, applied human

Continued on following page

## SOCIAL SCIENCE

Prepares for the junior year at San Diego State College.

## Freshman

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
		<sup>3</sup> Selected Social Science Courses .....	3	3
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ....		3
H.E.	21	Health Education .....	2	
Speech	1A	Speech .....		3
		<sup>1</sup> Selected Science .....	3-4	3-4
		<sup>2</sup> Foreign Language .....	4	4
			15½-16½	16½-17½

## Sophomore

P.E.		Physical Education Activity	½	½
Psych	1A	General Psychology .....		3
Math	18	Introduction to Mathematics	3	
Hist	17AB	United States History .....	3	3
		<sup>3</sup> Selected Social Science Courses .....	3	3
		<sup>1</sup> Selected Music, Art, Literature or Philosophy .....		3
		<sup>1</sup> Selected Science .....	3-4	
		<sup>4</sup> Electives .....	3-4	3-4
			15½-17½	15½-16½

<sup>1</sup>—See General Education requirements, page 35.

<sup>2</sup>—A reading knowledge of a foreign language is required. Proficiency may be demonstrated by course work (ordinarily 12 units) or by examination.

<sup>3</sup>—The Social Science major requires three 6 unit courses chosen from three of the following fields: Anthropology, Economics, Geography, History, Political Science or Sociology.

<sup>4</sup>—Suggested electives: History, an additional Social Science listed under <sup>3</sup>, Speech, Literature, Foreign Language, Psychology 1B, English 15.

Continued from preceding page

physiology, general physiological biology, endocrinology, genetics. Students should also plan to take such courses as will give them the reading knowledge of two foreign languages required for the Ph.D. degree.

**SOCIOLOGY**

Prepares for the junior year at San Diego State College.<sup>1</sup>

**Freshman**

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ....		3
Soc	1AB	Principles of Sociology .....	3	3
Geog	1, 2	Physical and Historical Geography .....	3	3
Math	18	Introduction to Mathematics		3
		<sup>2</sup> Selected Science .....	3	
		<sup>3</sup> Foreign Language .....	4	4
			16½	16½

**Sophomore**

P.E.		Physical Education Activity	½	½
Psych	1A	General Psychology .....	3	
Anthro	1AB	Physical and Cultural Anthropology .....	3	3
Hist	17AB	United States History .....	3	3
Speech	1A	Speech .....		3
H.E.	21	Health .....		2
		<sup>2</sup> Selected Music, Art, Litera- ture, or Philosophy .....	3	
		<sup>2</sup> Selected Science .....	3-4	3-4
		<sup>4</sup> Elective .....		2-3
			15½-16½	16½-18½

<sup>1</sup>—Elementary Social Statistics to be completed in the junior year or the student may enroll in Math 12 subsequent to Math 18 at IVC.

<sup>2</sup>—See General Education requirements, page 35.

<sup>3</sup>—A reading knowledge of a foreign language is required. Proficiency may be demonstrated by course work (ordinarily 12 units) or by examination.

<sup>4</sup>—Suggested electives: Foreign language, Speech 1B, Psychology 1B, English 15, Business 71.

## SPANISH

Prepares for the junior year at San Diego State College.

## Freshman

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	½	½
Spanish		<sup>1</sup> Spanish .....	4	4
French		<sup>1</sup> French .....	4	4
Hist	4AB	History of Western Civilization .....	3	3
		<sup>2</sup> Selected Science Course ....		3
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ....		3
Speech	1A	Speech .....	3	
			17½	17½

## Sophomore

P.E.		Physical Education Activity	½	½
Spanish		<sup>1</sup> Spanish .....	4	4
Psych	1A	General Psychology .....		3
Hist	17AB	History of the United States	3	3
		<sup>2</sup> Selected Science Course ....	3- 4	3- 4
		Selected Literature, Music, Art, or Philosophy .....		3
H.E.	21	Health .....	2	
Math	18	Introduction to Mathematics	3	
			15½-16½	16½-17½

<sup>1</sup>—The major in Spanish requires Spanish 1, 2, 3, 4, (or equivalent) and a choice of German 1, 2; French 1, 2; or Latin 1, 2 (or equivalent). Classes should be scheduled according to individual needs.

<sup>2</sup>—See General Education requirements, page 35.

# VOCATIONAL WORK STUDY

## VOCATIONAL WORK STUDY

Prepares for employment at the end of two years.

### Freshman

Dept.	Course	Subject	Sem. I	II
P.E.		Physical Education Activity	1/2	1/2
Eng		<sup>1</sup> English Sequence .....	3	3
H.E.	21	Health .....	2	
		<sup>2</sup> Selected Mathematics Course .....	3	
		<sup>3</sup> Selected Courses .....	3-7	4-12
		Vocational Work-Study .....	1-4	1-4
		Not to exceed	17 1/2	17 1/2

### Sophomore

P.E.		Physical Education Activity	1/2	1/2
Hist	17AB	United States History .....	3	3
		<sup>3</sup> Selected Courses .....	4-12	4-12
		Vocational Work-Study .....	1-4	1-4
		Not to exceed	18 1/2	18 1/2

<sup>1</sup>—Six units of English are required for graduation. One of the following sequences may be followed:

1. English 51A-51B
2. English 51A and Business 80 or Speech 50
3. English 1A-1B
4. English 1A plus 3 units from English 30, 52, 56, Journalism or Speech

<sup>2</sup>—Selected mathematics course dependent on mathematics placement score on IVC entrance tests.

<sup>3</sup>—Courses are to be selected which are as closely connected as possible with the job situation. The approval of the teacher-counselor is necessary. Care should be taken to include work in a major and a minor field.

## COURSES OF INSTRUCTION

In the following list of courses, the credit value of each course in semester units is indicated by a number in parentheses after the title.

The session in which the course is given is shown by Roman numerals: **I** for the fall semester, and **II** for the spring semester. A course given through the period of September to June is designated **Yr.** A course designated by a double number (for example, English 52A-52B) is continued through two successive semesters. Each half of the course constitutes a semester's work. The first half is a prerequisite to the second unless there is a statement to the contrary. The individual student should check all prerequisites so that he enrolls only in courses for which he has the proper background.

To make it possible for a greater number of courses to be offered to the students of Imperial Valley, many courses in specialized fields are offered on alternate years only. The student should take this into consideration when making his long-range program.

Courses at Imperial Valley College parallel as closely as possible the courses given at San Diego State College, the University of California at Los Angeles, the University of California at Davis, and the California State Polytechnic College at the Kellogg-Voorhis Campus, and the San Luis Obispo Campus.

### AGRICULTURE

Many of the courses in the field of agriculture are offered on alternate years only. Students should keep this in mind as they plan their long-range programs of study with the assistance of their counselors.

#### **Ag 1 Introduction to Agricultural Business Management**

**(3) 1 3 hrs. Lec.**

Changes occurring in agriculture, careers in commercial agricultural businesses and public agricultural service agencies, development and growth of farm related industries, kinds of agricultural businesses, operational characteristics of commercial agricultural industries. Formerly numbered Ag. 50.

**Ag 2 Agricultural Business Organizations and Management**

(3) II 3 hrs. Lec.

Prerequisite: Agriculture 1. Study of farm technological advance, marketing, consumer demand and other such factors as determinants of growth, types and forms of agricultural business organization. Farm and farm related businesses considered from standpoint of primary functions, services and problems including investment, mortgage and working capital requirements, credit and collections, business with banks, failures and reorganization. Emphasis on California farm related industries. Formerly numbered Ag. 51.

**Ag 10A-10B Field, Cereal, Forage Crops (4-4) Yr.** 3 hrs. Lec.  
2 hrs. Lab.

The principles and practices of field, cereal, and forage crops production and soil management, including study of distribution, adaptation and utilization of the major field and forage crops of California such as cotton, large edible legumes, sugar crops and cereals. Laboratories and field trips to familiarize the student with production methods, plants, and seeds, processing and quality of field crops. Field laboratory work required.

**Ag 11A-11B Crop Production (2-2) Yr.** 4 hrs. Lab.

Application of production techniques. Cultural practices, harvesting, grading and processing, marketing, disease and pest control of California crops.

**Ag 12A-12B Truck Crop Production (2-2) Yr.** 1 hr. Lec.  
2 hrs. Lab.

Principles involved in seasoned truck crop production, including the scope, value, harvesting, packaging and marketing of the major truck crops grown in California.

**Ag 13 Weeds and Poisonous Plants (3) I** 3 hrs. Lec.

Common and noxious weeds of California, their identification, life history, and control. Chemicals and equipment used for weed control on cultivated land, in irrigation ditches, on the range, and on wasteland. Poisonous weeds, their effects and prevention.

**Ag 14A-14B Introduction to Entomology (2-2) Yr.** 1 hr. Lec.  
2 hrs. Lab.

A basic study of insects with emphasis on classification, anatomy and physiology, and ecology. An insect collection is required. Ag. 14A is a prerequisite to Ag. 14B.

**Ag 18 Ornamental Shrubs (3) II**

**3 hr. Lec.**

Broadleaf shrubs and vines used in California. Identification, habits of growth, cultural requirements and landscape use.

**Ag 20 Introduction to Animal Science (3) I**

**3 hrs. Lec.**

A survey of the sources of the world's supply of animal products. The distribution of and factors influencing domestic animals in the United States. The origin, characteristics, and adaptation of the important breeds and the influence of environment upon their development. Selection, feeding and management of sheep, swine, and cattle on California farms.

**Ag 21 Feeds and Feeding (3) II**

**3 hrs. Lec.**

The basic principles of animal nutrition as they are applied to livestock feeding; the composition and use of feedstuffs in their relation to feeding of farm animals; ration balancing. Identification and classification of feeds, methods of preparing feeds; relative value for each class of livestock. Digestion and utilization of feeds; feeding standards; economy in feeding; vitamins and minerals and feed sources.

**Ag 22 Livestock Judging (2) II**

**1 hr. Lec.**

**2 hrs. Lab.**

Selection of beef cattle, sheep, swine and horses according to breed, type and use. The animal form in relation to its various functions. Studies of recognized type standards in livestock with a critical evaluation of the criteria used in establishing these standards. Correlation of the type of the live animal with the quality of the carcass.

**Ag 23 Beef Production (3) I**

**2 hrs. Lec.**

**2 hrs. Lab.**

Prerequisites: Agriculture 21. Breeds, market classes and grades of beef cattle. Selection of feeder cattle. Management practices used in purchasing and fattening cattle using farm grown feeds. Study of cattle feeding operations. Improving performance through selection of heritable traits; reproduction problems; climatic adaptability; growth characteristics; effect of fattening on carcass composition; beef quality as affected by age, finish and type.

**Ag 24 Sheep Production (3) II**

**2 hrs. Lec.**

**2 hrs. Lab.**

Prerequisite: Agriculture 21. Sheep operations in the United States. Emphasis on breeds and adaptation to California conditions. Principles of selecting, culling, and judg-



ing sheep. Market classes and marketing of sheep. Home slaughter and carcass cuts. Factors affecting wool value.

**Ag 30A-30B Agricultural Mechanics (2-2) Yr.** 1 hr. Lec.  
2 hrs. Lab.

Selection and evaluation of production equipment. Study of specifications, plans, and construction of general agricultural production equipment. Pipe fitting, plumbing, and farm water supply; selection and grading of lumber; painting and wood preservatives. Construction operation, requirements and utilization of farm machinery and pest control equipment; theory and testing of displacement and centrifugal pumps. 30A is prerequisite for 30B.

**Ag 31A-31B Farm Machinery (2-2) Yr.** 1 hr. Lec.  
2 hrs. Lab.

Basic principles of machines; materials of construction; lubrication and maintenance. The development and use of farm machinery; the utilization of power on the farm; elements of hydrology in relation to agricultural engineering; the economics of farm buildings and machinery; elementary problems in the mechanics of agriculture. Ag. 31A is a prerequisite to 31B.

**Ag 32 Irrigation and Drainage (3) II** 2 hrs. Lec.  
2 hrs. Lab.

Fundamental principles and practices of irrigation. Soil-moisture relationships, water measurement, methods of irrigation, crop requirements, farm irrigation structures. Pumps and pumping, and problems of the irrigation farmer. Land preparation and irrigation methods, problems of irrigation, crop requirements, farm irrigation structures including investigation of drainage problems. Types of drainage systems and layout of farm drains, and drainage requirements for land reclamation and irrigated agriculture.

**Ag 33A-33B Farm Power (2-2) Yr.** 1 hr. Lec.  
2 hrs. Lab.

Lecture and laboratory. Field and shop practice in the operation, service and adjustment of the modern farm tractor; including both wheel and track types with gasoline and diesel power units.

**Ag 34A-34B Welding (2-2) Yr.** 1 hr. Lec.  
2 hrs. Lab.

Elements of arc and acetylene welding of mild steel; flat horizontal, vertical, and overhead positions. Arc and acetylene cutting. Brazing and hardface. Introduction to inert gas arc welding. Ag. 34A is a prerequisite to Ag 34B.

**Ag 40 Soils (3) I**

**3 hrs. Lec.**

Physical, chemical and biological properties of soils as related to agriculture. Principles of soil-plant inter-relations; development of the soil as a natural body, soil moisture, effect of management practices on soil properties; composition and use of fertilizers.

**Ag 41 Fertilizers and Soil Fertility (3) II**

**3 hrs. Lec.**

Prerequisite: Agriculture 40. The nature of fertilizers and soil amendments, their properties, methods of application, and reaction upon soils and plants. Composition, value and use of fertilizer materials and soil correctives. Methods employed in the manufacture, distribution, and application of fertilizers.

**ANATOMY**

**Anat 8 Human Anatomy (3) II**

**2 hrs. Lec.**

**6 hrs. Lab**

Prerequisite: High school biology with a C or better or Zool 1A or Biol 3. Systems of the human body and their interrelationships.

**ANTHROPOLOGY**

**Anthro 1 Physical Anthropology (3) I**

**3 hrs. Lec.**

Man's biological heritage; fossil evidences of early man; theories of human development; genetics; races and racial variability.

**Anthro 2 Cultural Anthropology (3) II**

**3 hrs. Lec.**

Social institutions in primitive and civilized societies; races; rise of political institutions; growth of native civilizations; material culture; social organization; religion; language. May be taken before Anthropology 1A.

**ART**

**Art 1A-1B Elementary Drawing (2-2) I, II**

**6 hrs. Lab.**

Prerequisites: Art 1A — none; Art 1B — Art 1A with a grade of C or better. A basic course in drawing involving analysis of lines, form, tone, texture and colors as essential media of expression.

**Art 2A-2B Intermediate Drawing and Painting (2-2) I, II**

6 hrs. Lab.

Prerequisites: Art 1A-1B. A continuation of the development of composition and the various techniques employed in drawing and painting. Includes figure drawing, landscape, and still-life. Painting; covers styles of painting from the neo-Classic to the present day.

**Art 6A-6B Design (3-3) I, II**

2 hrs. Lec.

3 hrs. Lab

Prerequisites: Art 6A — none; Art 6B — Art 6A with a grade of C or better. Fundamentals of design and composition; theory of color. Includes organization and utilization of basic elements through design problems.

**Art 11 Ceramics (2) II**

6 hrs. Lab.

Prerequisite: Art 6A. An introduction to ceramics. Basic methods of forming, decorating, glazing, and firing.

**Art 50A-50B History and Appreciation of Art (3-3) I, II**

A year course. Either semester may be taken separately. Art 50A is a survey from Pre-Historic to the Renaissance. Art 50B extends from the Renaissance to the present.

## ASTRONOMY

**Astron 1 Elementary Astronomy (3) I, II**

3 hrs. Lec.

An introductory survey course in the general principles and the fundamentals of astronomy with emphasis on the solar system.

## AUTOMOTIVE TECHNOLOGY

**Auto Tech 51A Automotive Technology (4) I**

2 hrs. Lec.

4 hrs. Lab.

Design, construction and mechanical functions of automotive engines, fuel systems, electrical systems, power transmission, brakes, wheel suspension. Proper and safe use of tools and equipment. (Lecture, lab and occasional field trips.)

**Auto Tech 51B Automotive Technology (4) II**

2 hrs. Lec.

4 hrs. Lab.

Prerequisite: Automotive Technology 51A. Advanced study of automotive engines, electrical systems, automatic transmissions, brakes and power transmitting mechanisms; sciences involved with internal combustion, electricity,

## AUTOMOTIVE TECHNOLOGY — BIOLOGY

hydraulics, pneumatics, energy conversion. (Lecture, lab and occasional field trips.)

**Auto Tech 52A Automotive Technology (4) I**      2 hrs. Lec.  
4 hrs. Lab.

Prerequisite: Automotive Technology 51B. Basic diagnosis and service procedures on automotive repair jobs; motor testing, tune-ups and trouble shooting. Not offered 1964-65.

**Auto Tech 52B Automotive Technology (4) II**      2 hrs. Lec.  
4 hrs. Lab.

Prerequisite: Automotive Technology 52A. Shop practice in maintenance and repair in automotive specialty areas, automotive machine shop, wheel alignment, body work, electrical service, power equipment, and trouble shooting. Not offered 1964-65.

**Auto Tech 53A Machine Shop (2) II**      1 hr. Lec.  
3 hrs. Lab.

A general course designed for students desiring to work in the various areas of automotive technology involving machine shop operations. Skill is developed in the operation of lathes, milling machines, drill presses, grinders, shapers, hand and bench tools, and heat treating. The proper use of materials, safety and care of equipment is emphasized.

**Auto Tech 53B Machine Shop (2) I**      1 hr. Lec.  
3 hrs. Lab.

Machine shop practice as related to automotive technology. Further skills developed in the operating of farm equipment. Included will be a study and application of measuring tools, gauges, speeds and standards for drills, taps and reamers. Not offered Fall 1964.

## BIOLOGY

**Bio 3 Introduction to Biological Science (3-3) I, II**      2 hrs. Lec.  
3 hrs. Lab.

Not open to students with credit in Zoology or Botany. A consideration of basic biological phenomena. Designed for those students who intend to take only one semester of general biological science. May be combined with Physical Science 5 for a year course in the basic principles of natural science.

**BOTANY**

- Bot 1A General Botany (4) I** 2 hrs. Lec.  
6 hrs. Lab.  
 Prerequisite: Any year course in a high school laboratory science with a grade of C or the equivalent. Designed to present a comprehensive view of the structure and function of stems, roots, leaves, flowers, and seeds of the flowering plants.
- Bot 1B General Botany (4) II** 2 hrs. Lec.  
6 hrs. Lab.  
 Prerequisite: Botany 1A. Designed to present a comprehensive view of the structure and function of the plant kingdom from the lowest to the highest forms; typical representatives of algae, fungi, mosses, ferns, and flowering plants in proper relation to one another.

**BUSINESS**

- Bus 1A-1B Principles of Accounting (4-4) Yr.** 4 hrs. Lec.  
1 hr. Lab.  
 Prerequisite: Satisfactory score on the mathematics placement test or eligibility for Math 51. Recommended: Bus 67AB or equivalent. Introduction to the theory, practice, principles of accounting as they relate to single proprietorship, partnership, and corporate types of business enterprises. 1A is a prerequisite to 1B.
- Bus 2 Mathematics of Finance (3) II** 3 hrs. Lec.  
 Prerequisite: Two years of algebra in high school or equivalent. Interest and annuities; amortization; sinking funds; valuation of bonds; depreciation; mathematics of building and loan associations, life annuities, and life insurance.
- Bus 16 Introduction to Business (3) I** 3 hrs. Lec.  
 A basic beginning college course for students specializing in business subjects; the nature of business, ownership, finance, personnel, and problems related to the business system.
- Bus 17 Business Management (3)** 3 hrs. Lec.  
 A study of the organizing and merchandising problems of a business; financial problems; business management.
- Bus 19 Elements of Supervision (3) I** 3 hrs. Lec.  
 The role of the supervisor in industry and business; the development of techniques in meeting administrative, or-

ganizational, labor, and human relations problems; the utilization of men, machines and materials; and case studies in supervisory problems.

**Bus 20 Human Relations for Supervisors (3) II 3 hrs. Lec.**

Improving supervision by the use of basic psychology in building better employer-employee relationship through human relations techniques; development of leadership qualities; main human relations problems and their causes and solutions.

**Bus 29 Principles of Marketing (3) I 3 hrs. Lec.**

The organization and operation of systems for the distribution of goods and services; includes a study of retail and wholesale distribution channels, consumer buying characteristics, marketing of industrial goods, cooperative marketing of agricultural products, pricing policies and governmental regulations.

**Bus 30A-30B Business Law (3-3) Yr. 3 hrs. Lec.**

Principles of business law and their application to actual cases involving business transactions, contracts, sales, partnerships, corporations, negotiable instruments, and property and creditor's rights.

**Bus 31 Insurance (3) I 3 hrs. Lec.**

The philosophy and fundamental principles of the various fields of insurance; covers the basic provisions of insurance offered by commercial companies to businesses and individuals; social insurance offered by governmental agencies is surveyed.

**Bus 34 Retailing (3) II 3 hrs. Lec.**

Selection of a location for a retail outlet, organization of the store, buying, the movement of merchandise, and the study of other problems related to retail merchandising.

**Bus 36 Personal Finance (2) I 2 hrs. Lec.**

Practical application of the principles of good business to the handling of personal funds. Budgets, financial services, insurance, investment, home ownership, taxes, and consumer problems.

**Bus 40 Real Estate Principles (3) I 3 hrs. Lec.**

An analysis of the principles of real estate in California; history of California real estate, property, contracts, agency, listings, real estate financing, deeds, liens and encumbrances, escrows and title insurance, land descriptions, real estate mathematics, and real estate licensing and state regulations.

**Bus 41 Real Estate Practices (3) II** **3 hrs. Lec.**

Prerequisite: Business 40. An analysis of the problems related to the establishing and conducting of a real estate business; the real estate business, the real estate office, listings, valuation of listings, prospecting, advertising, the selling process, closing the sale, financing real estate, exchanges and specialized brokerages, income properties, property management and leasing, taxes and real estate deals, land utilization, and professional and public relations.

**Bus 42 Real Estate Law (3) I** **3 hrs. Lec.**

Prerequisite: Business 40, or permission of the instructor. A practical applied study of California Real Estate Law intended to be of help in avoiding legal difficulties which can arise in connection with real estate transactions.

**Bus 43 Real Estate Finance (3) II** **3 hrs. Lec.**

Prerequisite: Business 40, or permission of the instructor. A practical applied study and analysis of money markets, interest rates and real estate financing, with actual case illustrations demonstrating lending policies, problems, and rules involved in financing real property, including residential, multi-family, commercial, and special purpose properties.

**Bus 44 Real Estate Appraising (3) I** **3 hrs. Lec.**

Prerequisite: Permission of the instructor. Methods and techniques for determination of loan, market, and insurance values. Case study methods are employed; field work and demonstration appraisal reports are required. Principles of real estate valuations; cost, market data, summation and sales analysis methods of appraising are studied with an emphasis on residential properties.

**Bus 45 Real Estate Trends and Factors (3) II** **3 hrs. Lec.**

Prerequisite: Bus 40, 41 and 42, recommended Bus 43 and 44. A practical study of the economic aspects of real estate designed to provide a grasp of the dynamic economic conditions and other factors underlying the real estate business in California. This is designed to be the senior course—the final course—in the real estate curriculum.

**Bus 50 Salesmanship (3) I, II** **3 hrs. Lec.**

Theoretical and psychological backgrounds of salesmanship; newer concepts of selling; the selling of ideas and services; steps in a sale; the development of clientele and of good will; the personal factor in salesmanship.

**Bus 51 Income Tax (2) I, II** **2 hrs. Lec.**

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.

**Bus 52 Investments (3) II** **3 hrs. Lec.**

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.

**Bus 71A Elementary Typewriting (2) I, II** **5 hrs.**

Designed to impart the fundamental skills and knowledge of typing. The student is introduced to the basic concepts of typewriting production.

**Bus 71B Intermediate Typewriting (2) I, II** **5 hrs.**

Prerequisite: Business 71A with the ability to type 30 w.p.m. or one year of high school typing with the ability to type 30 w.p.m. Emphasis is placed on business letter styles and refinement of production skills.

**Bus 72A Advanced Typewriting (2) I, II** **5 hrs.**

Prerequisite: Business 71B with the ability to type 40 w.p.m. or the equivalent. The course includes drills designed to increase speed and accuracy. Further study of letter writing, manuscripts, legal documents, tabulation and statistical work is emphasized.

**Bus 72B Office Procedures (4) I, II** **5 hrs. plus  
2 hrs. to be arranged**

Prerequisite: Business 72A with the ability to type 50 w.p.m. or the equivalent. An integrated course oriented towards production techniques that meet the standards of the business community. Covers the full range of office duties stressing those competencies required of the general office worker.

**Bus 73 Office Machines (3) I, II** **5 hrs.**

Prerequisite: Satisfactory score on mathematics placement test or Math 051 with a grade of "C" or better. Develops skills required for rapid and accurate operation of calculating machines with emphasis on the rotary calculator.

**Bus 75A Elementary Shorthand (3) I** **5 hrs.**

A beginning course in Gregg Shorthand. Theory and dictation practice for students who have had no previous training.



- Bus 75B Intermediate Shorthand (3) II** 5 hrs.  
Prerequisite: Business 75A with a grade of "C" or better. Review of Gregg Shorthand theory, with emphasis on speed building.
- Bus 76A Advanced Shorthand (3) I** 5 hrs.  
Prerequisites: Business 75B, a net typing speed of at least 35 words per minute and a dictation level of 80-100 words per minute. Five hours of intensive speed building to enable students to meet commercial standards.
- Bus 76B Advanced Dictation and Transcription (3) II** 5 hrs.  
Prerequisites: Business 76A and a dictation level of 100-120 words per minute. Five hours of Gregg Shorthand dictation and typewriter transcription.
- Bus 77A-77B Elementary Bookkeeping (3-3) Yr.** 3 hrs.  
A course designed to meet the needs of practical bookkeeping in a single proprietorship, partnership, and corporation. Work is given in journalizing, posting, trial balance and preparation of financial reports. Preparation of the payroll and other practical work is included. Not open to students with credit in high school bookkeeping or Business 1A.
- Bus 80 Business Correspondence (3) II** 3 hrs.  
Prerequisites: Completion of English 51A or 1A and Business 71A or equivalent. Emphasizing letter form and style, the psychology of the sales letter, letters of complaint and adjustment, credit and collection, job application, and the business report.

## CHEMISTRY

- Chem 1A-1B General Inorganic Chemistry (5-5) Yr.** 6 hrs Lab. 3 hrs. Lec.  
Prerequisites: High school algebra and plane geometry with grades of C or better, and high school chemistry or Chemistry 2 with a grade of C or better. General principles of chemistry with emphasis on inorganic materials and calculations. Qualitative analysis is included in the second semester.
- Chem 2 Introduction to Chemistry (4) I, II** 3 hrs. Lab. 3 hrs Lec.  
Prerequisites: One year of high school algebra or its equivalent with a grade of C or better. Intended for students who have not had high school chemistry or who need



**Drm Art 12A,B,C,D Rehearsal and Performance (1-1-1) I, II**

**3 hrs. Lab.**

Prerequisite: Permission of the instructor. Enrollment contingent upon participation in campus major dramatic production. Maximum credit 1 unit per semester for four semesters. Hours to be arranged.

**ECONOMICS**

**Econ 1A-1B Principles of Economics (3-3) Yr. 3 hrs. Lec.**

An introduction to principles of economic analysis, economic institutions, and issues of economic policy; allocation of resources and distribution of income through the price system; aggregative economics, including money and banking, national income, and international trade. Includes a brief introduction to comparative economic systems.

**ENGINEERING**

**Engr 1 Technical Drawing (2) I, II 6 hrs. Lab.**

A general course for students who have had no high school mechanical drawing. Covers proper use of drafting instruments, geometric constructions, lettering, orthographic projections, pictorial representations, isometric drawings, dimensions, and symbols.

**Engr 2A-2B Engineering Drawing (3-3) Yr. 6 hrs. Lab.**

Lecture and laboratory. Prerequisite: Engineering 1 or two years of high school mechanical drawing or permission of the instructor. Geometric construction, sketching, dimensioning, theory of orthogonal projections, auxiliaries, sectioning, tolerance, piping, structural design, and simple working drawings.

**Engr 8 Slide Rule and Computations (1) II 1 hr. Lec.**

Prerequisite: Math A, or two years of high school algebra, or satisfactory score on Mathematics Placement Test. Performing necessary manipulations with the slide rule, while using correct methods, to solve engineering problems.

**Engr 10 Engineering and Technical Problems (3) I, II 3 hrs. Lec.**

Prerequisite: Trigonometry or Mathematics 1 or satisfactory score on Math Placement Test. An applied course in geometry, algebra, and trigonometry with applications to problems in engineering.

## ENGINEERING—ENGLISH

- Engr 21 Descriptive Geometry (3) II** 1½ hrs. Lec.  
4½ hrs. Lab.  
Prerequisite: Engineering 2A or 2B. An advanced course in drawing; three dimensional location of points, lines and planes; surface and intersection problems with engineering applications and vector geometry.
- Engr 28A-28B Plane Surveying (3-3) I, II** 1 hr. Lec.  
6 hrs. Lab.  
Prerequisite: Trigonometry and Engineering I or the equivalent. Principles of surveying, use of surveying instruments in the field, calculations, mapping, and plotting.
- Engr 50A Statics (3) I** 3 hrs. Lec.  
Prerequisite: Physics 4A. Using vector algebra for analyzing and solving practical problems. Problems dealing with force systems, static equilibrium requirements, centroids, friction, moments of inertia of area and mass, centers of gravity, shear and movement diagrams.
- Engr 50B Dynamics (3) II** 3 hrs. Lec.  
Prerequisite: Engineering 50A and physics 4B. Kinematics of a particle, radius of gyration, dynamics of a particle, dynamics of a rigid body in plane motion, translation and rotation, working energy impulse and momentum, simple harmonic motions and vibrations, conservation of linear and angular momentum.
- Engr 51A-51B Beginning Welding (2-2) Yr.** 1 hr. Lec.  
3 hrs. Lab.  
Gas and arc welding of light and heavy steel plate and pipe; related blueprint reading and layout work.
- Engr 61 Orientation to Engineering (1) I** 1 hr. Lec.  
Helping the engineering student adjust to college life through motivating experiences and guidance, clarifying his concepts of the engineering college and the engineering profession, and aiding him to acquire the fundamental tools and skills required in his future work.

## ENGLISH

- Eng 051 English Review (3) I, II** 3 hrs. Lec.  
Prerequisite: Assignment by English placement test. A remedial course designed especially for those who need a review of English grammar and usage. Includes a selection of readings from our cultural heritage. Will not ful-

fill graduation requirements in English nor those for the major or minor. May be counted as elective credit only.

**Eng 51A-51B English Fundamentals (3) I, II                      3 hrs. Lec.**

Prerequisite: English 051 with a grade of C, or assignment by English placement test. English 51A is a prerequisite for English 51B. Intensive study of grammar and usage, with frequent writing of short themes. Includes a selection of readings from our cultural heritage. Designed for those students who need a thorough review in preparation for English 1A.

**Eng 10A-10B Reading and Vocabulary Improvement (3) I, II                      3 hrs. Lec.**

A course designed for those who wish to increase reading speed and comprehension. Mechanical reading devices are used to increase speed. The student also studies word origins, meanings, and roots, stems, and affixes.

**Eng 1A Reading and Composition (3) I, II                      3 hrs. Lec.**

Prerequisite: Satisfactory grade on English placement test or English 51A with a grade of A or B or English 51A-51B with an average grade of C or better. The standard course in freshman English.

**Eng 1B Introduction to Literature (3) I, II                      3 hrs. Lec.**

Prerequisite: English 1A. Introduction to the study of poetry, fiction, and drama, with further practice in writing.

**Eng 30A-30B American Literature (3-3) Yr.                      3 hrs Lec.**

Prerequisite: Eligibility for or completion of English 1A. A critical analysis of literary works of major American writers. The two parts of this course are divided, approximately, by the Civil War. English 30B may be taken before English 30A.

**Eng 31 Creative Writing (2) II                      2 hrs. Lec.**

Study of the principles of literary construction. Concentrated exercises in the writing of imaginative literature including short story, poetry, and essay.

**Eng 52A-52B Masterpieces of World Literature (3-3) Yr.                      3 hrs. Lec.**

Prerequisite: Eligibility for or completion of English 1A. A chronological survey from Homer to modern times.

**Eng 56A-56B Survey of English Literature (3-3) Yr.                      3 hrs. Lec.**

Prerequisite: English 1B. Close study of typical works of major English writers, with consideration of the more im-

portant aspects of English literary history. English 56B may be taken before English 56A.

### FRENCH

- Fr 1 Elementary French (4) I** **4 hrs. Lec.**  
**1 hr. Lab.**  
Pronunciation, oral practice, study of French culture and civilization, and basic grammar of the French language. The student must plan for an additional 1½ hrs of individual language laboratory.
- Fr 2 Elementary French (4) II** **4 hrs. Lec.**  
**1 hr. Lab.**  
Prerequisite: French 1 or two years of high school French. Continuation of French 1.
- Fr 3 Intermediate French (4) I** **4 hrs. Lec.**  
**1 hr. Lab.**  
Prerequisite: French 2 or three years of high school French. Continuation of French 2 with a review of grammar. Emphasizes oral practice and reading in French and cultural material, short stories, novels or plays. Outside reading with oral and written reports.
- Fr 4 Intermediate French (4) II** **4 hrs. Lec.**  
**1 hr. Lab.**  
Prerequisite: French 3 or four years of high school French. Continuation of French 3.
- Fr 30 Individual Study in French (1-3) I, II Hrs. to be arranged**  
Prerequisite: French 4 and permission of the instructor. An advanced course for students who have completed the second year of French and whose command of the language merits continued study. Includes extensive reading in French. The number of books read determines the number of units awarded.

### GEOGRAPHY

- Geog 1 Physical Geography (3) I** **3 hrs. Lec.**  
Earth movements, latitude and longitude; relationships of earth, sun, and seasons; elements of the weather including air temperature, winds, pressure, precipitation, air masses and fronts; world patterns of climate, natural vegetation, soils, and landforms; the earth's water and min-

## GEOGRAPHY — GEOLOGY — PHYSICAL EDUCATION

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eral resources. A physical science general education course in the area of the natural sciences.

### **Geog 2 Cultural Geography (3) II** **3 hrs. Lec.**

Prerequisites: None; however, Geography 1 is recommended. Stresses the major regions of the earth and their population, including the physical background, races, language, religion, and economy of each region. A social science course in general education. Geography 2 may be taken before Geography 1.

## GEOLOGY

### **Geol 1A Physical Geology (4) I** **3 hrs. Lec.** **3 hrs. Lab.**

Destructive and constructive work of water, ice, and wind; earthquakes and the earth's interior; volcanoes and gysers; rocks and rock formations; mineral resources; coral islands; origin and history of the larger topographic features.

### **Geol 1B Historical Geology (4) II** **3 hrs. Lec.** **3 hrs. Lab.**

Origin of the earth; measurement of geologic time; the geologic periods; typical fossils and organic evolution; organic and structural studies connected with important events in the development of the earth to the present time; ancient geography; geologic maps and structure sections. Geology 1B may be taken before 1A.

## HEALTH, PHYSICAL EDUCATION AND RECREATION

Physical Education activity courses are numbered 1-20. Unless excused, each student is required by law to schedule one activity course each semester. Courses may be repeated once for credit.

### **P.E. 10A-10B(W) Team Sports for Women (½) I, II** **2 hrs.** **P.E. 10A-10B(M) Team Sports for Men (½) I, II**

An introduction to fundamental physical skills and team games. Designed to stimulate the development of mental and physical alertness and poise, and to encourage regular participation in a variety of sports.

### **P.E. 11A-11B Archery and Badminton (½) I, II** **2 hrs.**

Coeducational. An introduction to archery and badminton.

## HEALTH, PHYSICAL EDUCATION AND RECREATION

**P.E. 12A-12B Combative Sports for Men (1/2) I, II                      2 hrs.**

A study of the art of self-defense through boxing, wrestling, and judo. Includes weight lifting.

**P.E. 13A-13B(W) Individual Sports for Women (1/2) I, II   2 hrs.**

An introduction to such individual sports as archery, golf, and badminton.

**P.E. 13A-13B(M) Individual Sports for Men (1/2) I, II   2 hrs.**

An introduction to such individual sports as archery, golf, and badminton. Includes the Iowa-Brace achievement tests.

**P.E. 14A-14B Volleyball and Badminton (1/2) I, II            2 hrs.**

Coeducational. The etiquette, rules, background, and techniques of playing badminton and volleyball.

**P.E. 16A-16B Folk and Square Dancing (1/2) I, II            2 hrs.**

Coeducational. Participation and instruction in basic fundamentals, forms, and patterns of folk and square dancing.

**H.E. 21 Health Education (2) I, II                                      2 hrs.**

Fundamentals of healthful living designed to provide scientific health information, and promote desirable attitudes and practices. Includes the study of first aid and the relationship of alcohol, narcotics, and smoking to health, and the factors involved in family and community health and safety. Required for graduation.

**H.E. 22 First Aid (1) II**

General procedures in administering first aid. This course meets the requirements of the Red Cross First Aid Certificate.

**P.E. 31 Football (1/2) I    Hours to be arranged**

Theory and practice of competitive football. Limited to students trying out for varsity teams. The student must schedule for a minimum of ten hours per week.

**P.E. 32A-32B-32C-32D Basketball (1/2) I, II                      Hours to be arranged**

Theory and practice of basketball. Limited to students trying out for varsity team. The student must schedule for a minimum of ten hours per week.

**P.E. 33A-33B-33C-33D Track (1/2) II                                   Hours to be arranged**

Theory and practice of track. Limited to students trying out for varsity team. The student must schedule for a minimum of ten hours per week.



## PHYSICAL EDUCATION—HISTORY

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**P.E. 34A-34B-34C-34D Baseball (½) II      Hours to be arranged**

Theory and practice of baseball. Limited to students trying out for varsity team. The student must schedule for a minimum of ten hours per week.

**P.E. 35A-35B-35C-35D Wrestling (½) II      Hours to be arranged**

Theory and practice of wrestling. Limited to students trying out for varsity team. The student must schedule for a minimum of ten hours per week.

**P.E. 53 Elementary Games and Activities (3) I, II      3 hrs.**

Participation in physical education activities which are designed for the elementary school child; understanding of principles of movement in fundamental skills and their application.

**HPER 54 Introduction to Health, Physical Education and Recreation (2) I, II      2 hrs. Lec.**

Covers the development and significance of the major areas in the broad field of health, physical education and recreation. Focuses on the development of a basic philosophy for the student whose occupational interests lie in this field.

## HISTORY

**Hist 2 Survey of American History (3) I, II      3 hrs. Lec.**

A one-semester survey of American history beginning with the creation of the federal Constitution which stresses constitutional and political developments from 1787 to the emergence of the United States as a world power. This course together with Political Science 2 satisfies the requirements in History and American Institutions.

**Hist 4A-4B History of Western Civilization (3-3) Yr.      3 hrs. Lec.**

A broad, historical study of the major elements in the Western heritage from the world of the Greeks to that of the twentieth century, designed to further the beginning student's general education, introduce him to ideas, attitudes, and institutions basic to Western civilization, and to acquaint him through reading and critical discussion, with representative contemporary documents and writings of enduring interest. History 4A extends through the 17th Century; 4B from the 17th Century to modern times. Either 4A or 4B may be taken separately.

**Hist 8A-8B History of the Americas (3-3) Yr.      3 hrs. Lec.**

History 8B may be taken before 8A. Survey of the history

of the western hemisphere with primary concentration on the study of Latin American countries. In 8A attention is given to the exploration, settlement, colonial growth, imperial rivalries, and the achievement of independence; 8B includes the evolution and development of the American nations and peoples in the nineteenth and twentieth centuries. History 8A and 8B may be combined with Political Science 2 to meet Constitution, history and government requirements for graduation.

**Hist 17A-17B United States History (3-3) Yr. 3 hrs. Lec.**

Prerequisite: Eligibility for English 1A. A survey of the political and social development of the United States, with emphasis on the rise of American civilization and ideals. The first semester covers the colonial period up to and including the Civil War; the second semester covers the period from Reconstruction to the present. This year course meets the graduation requirements in United States Constitution and the second semester course, 17B, meets the requirements in California state and local government. Intended primarily for the history and social science major.

**JOURNALISM**

**Jrn 83A-83B Yearbook Workshop (2-2) I, II 1 hr. Lec. 2 hrs. Lab.**

This course offers special work in yearbook production in connection with the school yearbook and includes style, copy writing, layout, advertising, and the graphic arts connected with yearbook production. An additional hour of laboratory-type activities to be arranged.

**Jrn 83C-83D Advanced Yearbook Workshop (2-2) I, II 1 hr. Lec. 2 hrs. Lab.**

Prerequisite: Journalism 83A-83B. This course offers special advanced work in yearbook production in connection with the school yearbook and includes editing, business management, graphic arts connected with yearbook production and photography. An additional hour of laboratory-type activities to be arranged.

**Jrn 93A-93B Newspaper Workshop (2-2) I, II 1 hr. Lec. 2 hrs. Lab.**

Prerequisite: Permission of the instructor. This course offers special work in journalism in connection with the school newspaper and includes interviewing, copy writing, copy reading, photography, style sheet and advertising. An additional hour of laboratory-type activities to be arranged.

**Jrn 93C-93D Advanced Newspaper Workshop (3-3) I, II**

**2 hrs. Lec.**

**3 hrs. Lab.**

Prerequisite: Journalism 93A-93B. This course offers special advanced work in connection with the school newspaper and includes editing, proof reading, headline writing, layout, business management, and actual printshop experience.

**LAW ENFORCEMENT**

**Law Enf XA-XB Peace Officers' Basic Training (3-3) Yr.**

**3 hrs. Lec.**

A basic training course designed to develop techniques and skills necessary to meet the law enforcement needs of the Imperial Valley area, and to develop an understanding and appreciation of the main procedures in the application of the law. The course includes classroom note-taking, laws of arrest, public relations, firearms, defensive tactics, mechanics of arrest, panic control, rules of evidence and other material basic to proper law enforcement.

**Law Enf 1 Survey of Law Enforcement (3) I**

**3 hrs. Lec.**

The philosophy and history of law enforcement agencies involved in the administration of criminal justice; processes of justice from detection of crime to parole of offender; evaluation of modern police services; survey of professional career opportunities.

**Law Enf 2 Police Patrol Procedures (3) II**

**3 hrs. Lec.**

Techniques of patrol and observation; handling complaints and called-for services; public relations; techniques of field interrogation; officer's notebook procedures; essentials of police report writing; utilization of specialized equipment.

**Law Enf 3 Criminal Law (3) I**

**3 hrs. Lec.**

Elements of criminal law with definitions and general penalties; laws of arrest, search and seizure, right and duties of officers and citizens.

**Law Enf 4 Criminal Investigation (3) I**

**3 hrs. Lec.**

Fundamentals of investigation; techniques of crime scene recording and search; collection and preservation of physical evidence; modus operandi processes; sources of information; interview and interrogation; follow-up and case preparation.

## LAW ENFORCEMENT — MATHEMATICS

### **Law Enf 5 Criminal Evidence (3) II** **3 hrs. Lec.**

Origin, development, and philosophy of rules of evidence; tests of admissibility; weight and value of types of evidence.

### **Law Enf 6 Criminal Procedure (3) II** **3 hrs. Lec.**

General court procedure and judicial process. Principles of constitutional and civil law as applicable to police operations. Preparation for trial, courtroom testimony, moot court.

### **Law Enf 7 Juvenile Control (3) I** **3 hrs. Lec.**

Techniques of handling juvenile offenders and victims; prevention and repression of delinquency; diagnosis and referral; organization of community resources; juvenile law and juvenile procedure.

### **Law Enf 9 Defensive Tactics (2) I, II** **3 hrs. Lec.**

A study of the art of self-defense through boxing, wrestling, and fencing. Includes the art of weight lifting.

### **Law Enf 10 Traffic Control and Traffic Accident Investigation (3) II** **3 hrs. Lec.**

The study of traffic control problems and procedures for accident investigation.

## MATHEMATICS

### **Math 051 Arithmetic Review (3) I, II** **3 hrs. Lec.**

A remedial course designed for those who need a review of the fundamentals of arithmetic. Will not fulfill graduation requirements in mathematics nor those for the major or minor. May be counted as elective credit only.

### **Math 51 Basic Mathematics (3) I, II** **3 hrs. Lec.**

Brief review of arithmetic including fractions, decimals, per cent, square root, and an introduction to algebra.

### **Math X Beginning Algebra (3) I, II** **3 hrs. Lec.**

Prerequisite: Completion of Math 51 or satisfactory score on mathematics placement test. A one-semester course which covers the material generally included in a full year high school algebra course.

### **Math Y Plane Geometry (3) I, II**

Prerequisite: Completion of Math 51 or satisfactory score on mathematics placement test. Covers the same material included in the full year of plane geometry in high school.

**Math A Intermediate Algebra (3) I, II**

**3 hrs. Lec.**

Prerequisites: Mathematics X and Y, or their equivalents with grades of C or better. This one-semester course takes the place of a strong second-year algebra course studied for the full year in high school. Included will be a development of real number system, radicals and exponents, quadratic equations, binomial expansion, arithmetic and geometric progressions, logarithms, conics, and the introduction to determinants.

**Math C Plane Trigonometry (3) I, II**

**3 hrs. Lec.**

Prerequisites: Mathematics A or its equivalent with a grade of C or better. Special emphasis is placed on trigonometric analysis, applications, solving trigonometric equations including some with inverse functions, and graphing. Open to all students who have credit for high school trigonometry as well as for those who have not.

**SPECIAL NOTE:** Mathematics courses 051, 51, X, Y, A and C are treated by most universities and many state colleges as high school subjects and may not, therefore, be recognized in terms of transfer credit. It is the responsibility of the student to check the catalog of that institution to which he expects to transfer to identify deficiencies which must be removed or to plan the sequence of courses which must be completed.

**Math 1 College Algebra (3) I, II**

**3 hrs. Lec.**

Prerequisites: Mathematics C, or equivalent, with a grade of C or better. Brief review of intermediate algebra including a development of the real number system, theory of equations, determinants, conic sections, progressions, inequalities, complex numbers, graphing, permutations and combinations, and other advanced topics. (Math C may be taken concurrently.)

**Math 3A-3B Analytic Geometry and Calculus (5-5) Yr. 5 hrs. Lec.**

Prerequisites: Mathematics 1 or equivalent with a grade of C or better. Math 3A with a grade of C is a prerequisite to Math 3B. This is an integrated course in analytic geometry and calculus. Included will be the study of limits, derivatives, differentials, integration, conics as paths of moving points, the theory of determinants, angular velocity and acceleration, transcendental functions, parametric equations, polar coordinates, vectors, formulas and methods of integration, and their advanced applications. This sequence, together with Math 4A, completes the basic mathematics requirements for further study in mathematics, science and engineering.

**Math 4A Calculus and Differential Equations (4) II 5 hrs. Lec.**

Prerequisite: Mathematics 3B with a grade of C or better. Continuation of Mathematics 3A-3B. Solid analytic geometry, partial differentiation, multiple integration, infinite series, ordinary differential equations, and applications.

**Math 9 Technical Mathematics (3) I 3 hrs. Lec.**

Prerequisites: Mathematics A or satisfactory score on mathematics placement test. An applied course in mathematics for engineering technicians or related fields.

**Math 12 Elementary Statistics (3) I, II 3 hrs. Lec.**

Prerequisite: Math A or the equivalent. Graphical representation of statistical data, calculations and uses of various averages, measures of variability, elementary probability and the normal curve, sampling and estimation.

**Math 18 Introduction to Mathematics (3) I, II 3 hrs. Lec.**

Prerequisites: Math X and Y or equivalents. Topics, from logic, modern algebra and analysis designed to give the student an introduction to the structure of mathematical theories and their applications. Not intended for mathematics majors.

**MUSIC**

**Mus 7A Music Fundamentals (3) I 3 hrs. Lec.**

Elementary music theory and skills including notation, meter, rhythm, scales, intervals, triads, sight singing, ear training, dictation, elementary keyboard facility and other fundamentals.

**Mus 7B Music Materials (3) II 3 hrs. Lec.**

Study of all phases of elementary school music; singing, listening, reading, creative music, instruments, repertoire of songs and records, music projects.

**Mus 10A-10B Piano Class (1-1) Yr. 2 hrs.**

Basic keyboard experience through study of music reading, notation, scales, chords, and sight-reading covering a repertoire of beginning and intermediate songs and piano literature, with emphasis on keyboard harmony. The student must schedule a minimum of 40 minutes outside practice per day.

**Mus 30A-30B History and Appreciation of Music (3-3) Yr. 3 hrs. Lec.**

A study of the important composers and their works. Pur-

## MUSIC — PHILOSOPHY — PHYSICAL SCIENCE

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pose of the course is to develop an understanding of various types of music from different eras as a medium of cultural development and as a background toward further musical study.

**Mus 51A-51B-51C-51D Rehearsal and Performance (1-1-1) I, II** **3 hrs. Lab.**

Prerequisite: Permission of the instructor. Enrollment contingent upon participation in campus major musical production. Maximum credit, 1 unit per semester for four semesters. Hours to be arranged.

**Mus 55A-55B-55C-55D Band (1-1-1) I, II** **2 hrs.**

The band finds continuous and practical experience in playing for assemblies, athletic rallies, games and other public functions. Public performance and field trips required.

**Mus 62A-62B-62C-62D Mixed Chorus (1-1-1) I, II** **3 hrs.**

Open to all students who have an interest in learning to sing and who enjoy music. Breath control, tone placement articulation and enunciation; rehearsal and performance of choral music.

**Mus 64A-64B-64C-64D College Madrigal Singers (2-2-2) I, II** **3 hrs.**

Prerequisite: Permission of the instructor. A performance organization specializing in the madrigal songs which are sung a capella and are characterized by elaborate rhythm and contrapuntal imitation. A minimum of six outside performances required each semester.

## PHILOSOPHY

**Phil 1A-1B Introduction to Philosophy (3-3) Yr.** **3 hrs. Lec.**

Prerequisite: Eligibility for English 1A. Man's interpretation of the nature and meaning of reality, conduct, and his own thinking. A very brief introduction to the principles of valid reasoning.

## PHYSICAL SCIENCE

**Phys Sci 5 Introduction to Physical Science (4) II** **3 hrs. Lab.**

Selected topics in physical science. The relations of physical science to modern life through emphasis on the scientific method. Designed for those intending to take only one

semester of physical science. May be combined with Biology 3 for a year course in the basic principles of natural science.

### PHYSICS

3 hrs. Lec.

**Phys 2A-2B General Physics (4-4) Yr.**

3 hrs. Lab.

Prerequisites: Algebra and geometry with grades of C or better, trigonometry strongly recommended. Properties of matter, mechanics, heat, wave motion, sound, magnetism, light and atomic physics.

3 hrs. Lec.

**Phys 4A-4B-4C Principles of Physics (4-4-4) II, I, II**

3 hrs. Lab.

Prerequisites: 4A. Credit for or concurrent registration in Math 3A.

Prerequisites: 4B. Physics 4A with a grade of C or better and credit for or concurrent registration in Math 3B.

Prerequisites: 4C. Physics 4B with a grade of C or better and Math 3B. This course is designed to give a thorough understanding of the fundamental principles of physics in the areas of mechanics, wave motion, heat, electricity, light, and modern physics.

### PHYSIOLOGY

2 hrs. Lec.

**Physio 1 Human Physiology (4) II**

6 hrs. Lab.

Prerequisite: High school chemistry with a grade of C or Chemistry 2, and high school biology with a grade of C or Biology 3 or Anatomy 8. The functions of the human body; emphasis on the circulatory, muscular, and nervous systems.

### POLITICAL SCIENCE

**Poly Sci 1A Introduction to Government (3) I, II**

3 hrs. Lec.

Prerequisite: None; eligibility for English 1A strongly recommended. An introduction to the theories, principles and problems of modern government with particular emphasis on national government in the United States. (This course together with History 17B or 8A-8B meets requirements in History and American Institutions.)



**Poly Sci 1B Comparative Government (3) II      3 hrs. Lec.**

Prerequisite: None; eligibility for English 1A strongly recommended. A comparative study of Constitutional principles, governmental institutions, and political problems of selected national governments.

**Poly Sci 2 Survey of American Government (3) I, II 3 hrs. Lec.**

An introduction to the government of the United States and the State of California, with attention focused on the Constitutions, the basic structures and the functions of both. This course and History 2 fulfill History and American Institution requirements for graduation. A student may not receive credit for this course and Political Science 1A if prior credit was earned in 1A.

**PSYCHOLOGY**

**Psych 1A General Psychology (3) I, II      3 hrs. Lec.**

Prerequisite: None; eligibility for English 1A strongly recommended. An introduction to some of the facts, principles, and concepts which are basic to understanding human behavior. Includes maturation, personality, intellectual abilities, motivation, feeling and emotion, frustration, and mental health.

**Psych 1B General Psychology (3) I, II      3 hrs. Lec.**

Prerequisite: Psychology 1A. Continuation of Psychology 1A. The study of the integrative relations of psychological processes to nervous, muscular, and glandular features of the response mechanism. Includes the structure and function of the sense organs and nervous system.

**Psych 50 Personal and Social Development (2) I, II 2 hrs. Lec.**

The course is designed to give an overview of psychological principles applicable to personal and social development. Emphasis will also be given to educational and vocational planning and the development of effective study habits. Beginning with the entering class for Fall, 1964, Psychology 1A or Psychology 50 will be required for graduation. Not open to students with credit in Psychology 1A.

**SOCIOLOGY**

**Sociol 1A Principles of Sociology (3) I      3 hrs. Lec.**

Prerequisite: None; eligibility for English 1A strongly recommended. A study of the characteristics of social life;

the processes of social interaction; the tools of sociological investigation; concepts applied to sociological analysis, and the identification and analysis of social problems in the United States.

**Sociol 1B Contemporary Social Problems (3) II 3 hrs. Lec.**

Prerequisite: Sociology 1A or Psychology 1A. Survey of modern social problems recognizing the sociological factors involved. Emphasis on the scientific method of approach. An evaluation of various causes and solutions of problems.

**SPANISH**

**Span 1 Elementary Spanish (4) I 5 hrs.**

Pronunciation, oral practice, study of Spanish culture and civilization, and basic grammar of the Spanish language. Not open to students with a speaking knowledge of Spanish. (See Spanish 21.)

**Span 2 Elementary Spanish (4) II 5 hrs.**

Prerequisite: Spanish 1 or two years of high school Spanish. Continuation of Spanish 1. Not open to students with a speaking knowledge of Spanish. (See Spanish 21.)

**Span 3 Intermediate Spanish (4) I 5 hrs.**

Prerequisite: Spanish 2, three years of high school Spanish, or Spanish 21. Continuation of Spanish 2.

**Span 4 Intermediate Spanish (4) II 5 hrs.**

Prerequisite: Spanish 3 or four years of high school Spanish. Continuation of Spanish 3.

**Span 21 Spanish for Bi-lingual Students (2) II 2 hrs.**

A course designed to prepare bi-lingual students to enroll in Spanish 3. Emphasizes Spanish grammar and composition, and Spanish and South American literature.

**Span 30 Individual Study in Spanish (1-3) I, II  
Hours to be arranged**

Prerequisite: Spanish 4 and permission of the instructor. An advanced course for students who have completed the second year of Spanish and whose command of the language merits continued study. Includes extensive reading in Spanish. The number of books read determines the number of units awarded.

**Span 13, 14, 15, 16 Conversational Spanish (2) I, II 1 hr. Lab. 2 hrs. Lec.**

Prerequisite: Spanish 2 or three years of high school

## SPEECH — VOCATIONAL WORK-STUDY EDUCATION

Spanish. Conversational skills are developed through oral-aural drills, lab work and guided conversation based on selected readings.

### **SPEECH**

- Sp 1A Public Speaking (3) I, II** **3 hrs.**  
Prerequisite: Eligibility for English 1A. Training in the fundamental processes involved in oral communication with emphasis on organizing material, outlining, construction, and delivery of various forms of speeches.
- Sp 1B Intermediate Public Speaking (3) I, II** **3 hrs.**  
Prerequisite: Speech 1A. A continuation of Speech 1A with particular emphasis on organization and delivery.
- Sp 10A-10B Discussion and Debate (3-3) I, II** **3 hrs. Lec.**  
Prerequisite: Speech 1A, taken previously or concurrently. An introduction to the problems of evidence and inference, with emphasis on the application of logic to rational discussion of social problems. This class will also make up the college debate squad as well as the speaker's bureau.
- Sp 11A-11B Oral Interpretation (3-3) I, II** **3 hrs.**  
Prerequisites: Speech 1A or eligibility for English 1A. Discovering and imparting, vocally, intelligent and emotional meanings of the printed page.
- Sp 50 Basic Speech (3) I, II** **3 hrs.**  
Designed to assist the student in achieving effective personal communication. Emphasis is given to self-improvement drills involving voice projection, articulation, pronunciation, movement and other basic speech fundamentals.

### **VOCATIONAL WORK-STUDY EDUCATION**

**51 Vocational Work-Study Education (1-4) I, II**  
**Hours by arrangement**

This is a program designed to supplement classroom instruction and to provide actual occupational experience in business, industrial, and agricultural vocations. One unit of credit is given for four hours of work per week. The course may be repeated for a maximum of 16 units of elective credit toward graduation. The student must be concurrently doing satisfactory work in a minimum of 8 units. He must be willing to work up to sixteen hours per week for at least sixteen weeks at wage rates agreed upon

by the employer and student. Units for work-study are allowed for graduation, but grade points are not given. In other words, the grade point average for graduation is figured on academic class work only. The grades that are received for work-study are entered on the permanent records of the students, and may be available to future employers. Enrollees will be assisted by the teacher-counselor to secure a satisfactory job and the student will be responsible to him for periodic counseling.

## ZOOLOGY

- Zoo 1A General Zoology (4) I** **2 hrs. Lec.**  
**2 hrs. Lab.**  
Prerequisite: Any year course in a high school laboratory science with a grade of C or better or the equivalent. Introduction to basic principles of animal biology with reference to structure, functions, classification, heredity, and the environment of animals in general and of invertebrates in particular.
- Zoo 1B General Zoology (4) II** **2 hrs. Lec.**  
**6 hrs. Lab.**  
Prerequisite: Zoology 1A. Continuation of Zoology 1A with emphasis upon comparative anatomy and physiology, development of vertebrate forms and their interrelationships.

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