

# **IMPERIAL VALLEY COLLEGE**

**IMPERIAL JUNIOR COLLEGE DISTRICT**

## **G E N E R A L C A T A L O G**

**ANNOUNCEMENT OF COURSES**

**for**

**1961 - 1962**

**600 West Main Street — Imperial, California  
FLanders 5-1193 ELgin 2-3147**

**IMPERIAL COUNTY, CALIFORNIA**

IMPERIAL VALLEY COLLEGE



Model of the new campus which will be located at Ira Aten Road and Highway 111. The new campus is scheduled to be ready for occupancy in September, 1962.

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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IMPERIAL VALLEY COLLEGE

CALENDAR

1961 - 1962

FALL SEMESTER

- Aug. 28 - Sept. 1—9:00 a.m.-5:00 p.m.—Preliminary counseling
- Aug. 30—9:00 a.m.—Aptitude tests and English and Mathematics placement tests for all entering day and evening students
- Aug. 31—7:00 p.m.—Repetition of placement tests
- Sept. 1—9:00 a.m.—Repetition of placement tests
- Sept. 4—Labor Day holiday
- Sept. 6—1:00-5:00 p.m.—Registration of sophomores  
7:00 p.m.—Aptitude tests and English and mathematics placement tests
- Sept. 7—1:00-5:00 p.m.—Registration of priority freshmen
- Sept. 8—1:00-4:00 p.m.—Registration of remaining freshmen and other day students  
4:00-8:00 p.m.—Registration of evening students
- Sept. 11—Day and evening instruction begins
- Sept. 29—Last day for change of program
- Oct. 20—Last day for withdrawal from classes without penalty
- Oct. 30 - Nov. 3—Midterm examinations
- Nov. 10—Imperial County Teachers' Institute (Student holiday)
- Nov. 23-24—Thanksgiving holidays
- Dec. 25 - Jan. 1—Christmas and New Year's holidays
- Jan. 2-6—Instructors' Curriculum Workshop (Students' Christmas holidays continue)
- Jan. 22-26—Final examinations

SPRING SEMESTER

- Jan. 22—3:00 p.m.—Aptitude tests and English and mathematics placement tests for all entering students
- Jan. 23—7:00 p.m.—Repetition of tests
- Jan. 25—2:00-5:00 p.m.—Registration of sophomores
- Jan. 26—2:00-5:00 p.m.—Registration of freshmen  
4:00-8:00 p.m.—Registration of evening students
- Jan. 29—Day and evening instruction begins
- Feb. 16—Last day for change of program
- Mar. 9—Last day for withdrawal from classes without penalty
- Mar. 26-30—Midterm examinations
- Apr. 16-20—Easter vacation
- May 30—Memorial Day holiday
- June 1-7—Final examinations
- June 8—Commencement

# GENERAL INFORMATION

## THE BOARD OF TRUSTEES

- WILLIAM J. THORNBURG, Jr., President  
Trustee from area which includes Holtville Union High School District
- DON L. C. LYDICK, Clerk  
Trustee from area which includes Imperial Valley Union High School District
- WILLIAM D. ANDERSON  
Trustee from area which includes Calexico Union High School District
- MILTON W. CARR  
Trustee from area which includes Calipatria Unified School District
- RIGMOR B. COPE  
Trustee from area which includes Central Union High School District
- VICTOR V. VEYSEY  
Trustee from area which includes Brawley Union High School District
- CAROLYN F. WALLACE  
Trustee from area which includes San Pasqual Valley Unified School District



## ADMINISTRATION

- MILO P. JOHNSON  
Superintendent - President
- DANIEL G. WALKER  
Director of Instruction
- RUTH V. NOVAK  
Coordinator of Counseling and Student Activities
- A. J. HINSHAW  
Evening School Counselor
- LLOYD C. PRICHARD  
Director of Athletics
- AUDREY D. THOMAS  
Business Assistant
- JEAN HUNE  
Secretary

# THE FACULTY

- ALTENBERG, NORMAN B. .... History, Mathematics  
B.A., George Pepperdine College  
M.A., Los Angeles State College
- BISHOP, JOSEPH L. .... English, French  
B.A., M.A., Brigham Young University, Utah
- BLAU, LEONARD ..... Psychology, Sociology  
B.A., M.A., Los Angeles State College
- BRISTER, WOODROW, W. .... Journalism, English  
B.A., East Central State College, Oklahoma  
M.S., University of Southern California
- DIN, GILBERT C. .... Social Studies  
A.B., M.A., University of California, Berkeley  
Ph.D., University of Madrid, Spain
- FINLEY, LUTHER E. .... Engineering  
B.S., M.A., Arizona State University  
EdD., University of Southern California
- GARDNER, LYNN J. .... History, Spanish  
B.A., M.A., Brigham Young University, Utah
- GRAY, DONALD C. .... Social Studies  
B.A., M.A., University of California
- GREENWOOD, CLARENCE R. .... English  
B.A., M.A., University of California at Los Angeles
- GRIFFIN, WILLIAM A. .... Business Education  
B.S., University of North Dakota
- HAINES, DAVID V. .... Geography, Geology, Mathematics  
B.A., Brooklyn College, New York  
M.S., Pennsylvania State College
- HARTSHORN, ROBERT, Jr. .... Librarian  
B.S., Brigham Young University, Utah  
M.S., University of Southern California
- HINSHAW, A. J. .... Mathematics, Evening Counselor  
B.S., University of Southern California
- HUNTER, GEORGE H. .... Business Administration  
B.A., Claremont Men's College, California  
M.A., Long Beach State College, California

## THE FACULTY

- JOHNSON, MILO P. .... Superintendent, President  
A.A., Long Beach Junior College  
B.S., M.A., EdD., University of California at Los Angeles
- LEE, LORAN C. .... Music  
B.S., Arizona State College  
M.S., Arizona State University
- MELLINGER, ELWOOD J. .... Agriculture  
B.S., M.A., Michigan State University
- MORGAN, FRED L. .... English  
B.A., University of Arizona  
M.A., Cornell University
- NORTON, FLOYD A. .... English  
A.B., Colorado State College  
M.A., Colorado State University
- NOVAK, RUTH V. .... Coordinator of Counseling  
and Student Activities  
A.A., Los Angeles Junior College  
A.B., M.A., University of California at Los Angeles
- PAULSON, CLARENCE A. .... Business Education  
B.A., M.A., George Peabody College
- PERSKE, GERALD K. .... Biological Science  
B.S., M.S., University of Nevada
- PRICHARD, LOYD C. .... Director of Athletics  
B.S., M.A., University of Florida
- RICHWINE, HAROLD J., Jr. .... Physical Science  
B.S., Shippensburg State College, Pennsylvania  
M.S., Bucknell University, Pennsylvania
- TURNER, DONALD D. .... Physical Education  
B.A., Monmouth College, Illinois
- WALKER, DANIEL GERS .... Director of Instruction  
B.A., University of Corpus Christi, Texas  
M.A., Southwest Texas State Teachers College
- WILLIS, RACHEL B. .... Special Classes at T.B. Sanatorium  
B.A., Whittier 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 temporary location of the College is at 600 West Main Street in the city of Imperial, California. (Phone: FLanders 5-1193, EL 2-3147.) This temporary location is within reasonable commuting distance of all of the cities of the Valley.

The new permanent location of the campus will be at Highway 111 and Ira Aten Road in the heart of Imperial County.

### 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.

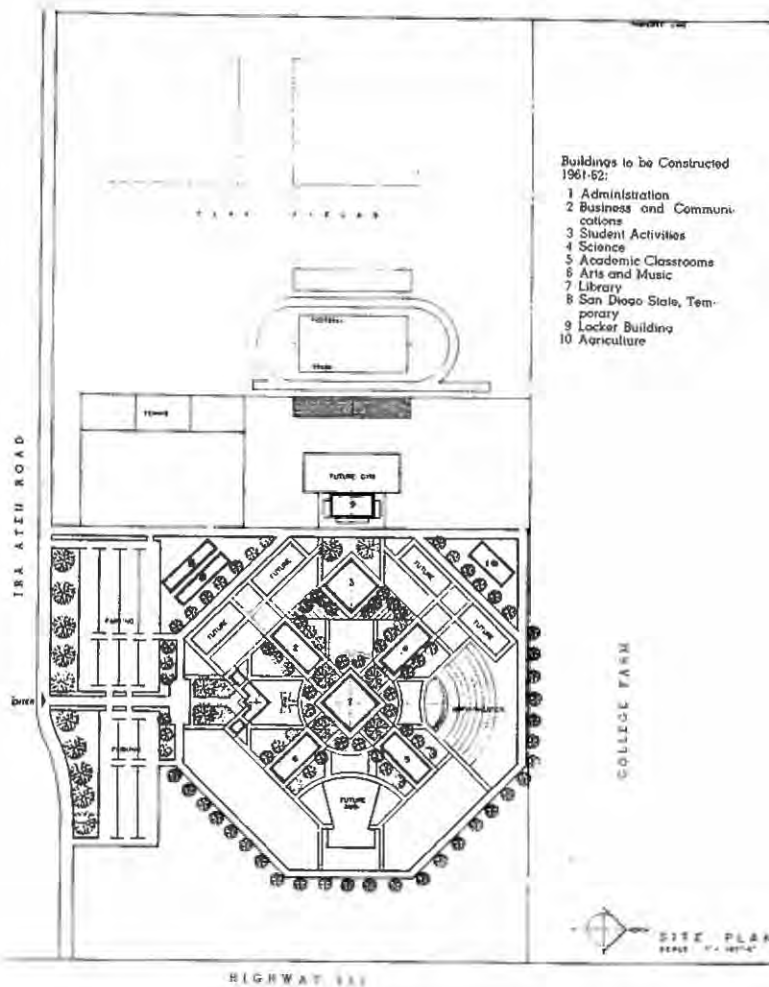
Enrollments increased in both schools until the war years when attendance dropped sharply. Brawley Junior College was forced by lack of attendance to discontinue classes at the close of the 1947 school year.

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

## PLOT PLAN OF THE NEW CAMPUS



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.

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. The new campus will 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.

A 160 acre site which meets the criteria recommended by the Citizens' Committee has been selected for the new campus. The new site is located on the northwest corner of Highway 111 and Ira Aten Road. The buildings are scheduled to be ready for the fall term of 1962.

**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 physical facilities with the junior college. Administrative offices are side by side, one library is used by both, and the services of certain teachers are shared. 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 the field of general education, and as the demand expands, other courses will be added to the San Diego State curriculum.

Because the temporary location of the college is on the Imperial High School grounds, some facilities, such as the gymnasium and laboratories are used jointly. The college offices, library, and most classrooms are housed in specially constructed air-conditioned buildings.

**LIBRARY**

The college library serves both the Imperial Valley College and the Imperial Valley Center of San Diego State College. The cooperation of these two institutions means that a greater number of books and periodicals is available to the students of both institutions. Two librarians, one on the staff of each institution, provide added assistance to students.

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.

College education is likely to be the last organized effort made by most citizens to improve their knowledge, skills, and understandings. It is the accepted obligation of the college to strive to help each student to become more competent in using the essential skills of communication, to improve his 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 program is to further the development of the talents of each student by helping him to select appropriate goals (including vocational choices) and then to choose learning experiences both in college and in part-time work which will assure his maximum achievement.

The best college education provides for the development in each student of responsible self direction. The aim of the teacher-counselor program of the college is to assist the student to gain the necessary knowledge so that he can intelligently

make his own decisions and then assume the responsibility for the choices that he has 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. While a public junior college must leave religious instruction to the churches, it is the aim of this college to maintain a respectful attitude toward the religious beliefs of the students.

The best college program for today is likely to be inadequate 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.

### TYPES OF COURSES AND PROGRAMS

In order that Imperial Valley College may achieve its goal of serving all students who desire to learn, two general types of courses are offered: Transfer and Semiprofessional.

#### Transfer Courses

The transfer courses are designed to parallel the lower division courses offered in colleges and universities. (Because so many of the students from Imperial Valley College transfer to San Diego State College, the University of California, or California State Polytechnic College, the courses of these institutions have been used as models for much of the work offered at Imperial Valley College.)

These courses meet the needs of those students who wish to transfer to a four year institution at the end of the sophomore year. Regardless of the major interest of the student, the first two years of college work include many fundamentals and basic requirements that can be met by enrollment in Imperial Valley College.

This offers an opportunity to students to begin their advanced education while still residing at home. Not only can this be of great financial assistance, but it offers an excellent transition between the high school campus and the large, often impersonal, college campus. The intimate, though scholarly,

atmosphere of the college; the opportunity of each student to know his instructors personally; and the chance to participate in the counseling program; all offer invaluable opportunities to the student that might not be available in an institution where the very size of enrollment makes personal interest in every student more difficult.

Not only can the student receive excellent personal assistance with his work, but the opportunities for leadership in student affairs are increased.

Through the counseling program, a close scrutiny is given to the courses in which a student enrolls so that there may be no time lost in the overall four year college program. The student plans ahead, sets up his goal, and systematically includes those courses of study that will be of the greatest benefit to him.

Any student who has deficiencies in high school subjects or grades needed for entrance to the college or university he wishes to attend at the end of his sophomore year, may make these up at the same time he is working for the Associate in Arts degree. He thereby avoids a loss of time.

#### Semiprofessional Courses

The semiprofessional 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.

The semiprofessional courses also offer a concentrated, well organized **liberal arts program** to meet the needs of the individual who has only two years to devote to higher education after the completion of high school. He may specialize in a choice of subjects in the liberal arts field and thereby gain a background that will always be invaluable to him in whatever line of work he wishes to follow.

The semiprofessional program also includes special courses that have been designed for the adult who did not have the opportunity of completing his high school training and who wishes to take work that will meet this end under the **high school completion and college preparatory programs**. On recommendation of the administration, after the completion of such work, the student becomes eligible for his high school diploma.

Coordinated with these two general divisions of work at the college (transfer and semiprofessional) 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 fields that are related as closely as possible to their occupational goals. Cooperating with employers and the State Employment Office, teacher-counselors 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, a better scholar, and a better citizen. 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. All employers in Imperial Valley have been invited to participate in the work study program.

**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. Average daily attendance credit will be counted at the high school and at the college.

(1959 Senate Bill 285 and Assembly Bill 10.) 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.

### DEGREE

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.) degree. Conditions under which the degree is granted are outlined in the section on graduation requirements.

This degree is awarded to a student who fulfills a two-year organized program of college work, either of a semiprofessional type or of a lower-division university type. Consequently, the degree does not in itself entitle a student to transfer to advanced standing in a four-year college or university. Each institution prescribes its own admission requirements. 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 a faculty committee that considers the eligible students from the standpoint of three qualities: character as shown by conduct and general behavior, service as shown by loyalty and service to the school, and leadership as shown by activity in student body 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.

#### Bank of America Awards

Each year the Bank of America honors two outstanding students, one in the field of business administration and one in the secretarial field. Cash awards of \$100.00 are given these students and they are invited to attend an awards banquet given for all recipients in Southern California.

### 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. The grants are based on factors of scholarship, citizenship, character, need, and life goals and purposes.

Some of these scholarships (such as those given by the Holtville Chamber of Commerce, the Calexico Junior Women's Club, and the Kiwanis Club of Brawley) are restricted to applicants from the individual districts; others (such as the Fraternal

Order of Eagles and Delta Kappa Gamma) have no restrictions and may be awarded to anyone from the Imperial Valley. These scholarships range in amount from \$25.00 to \$100.00.

The Imperial Valley Branch of the American Association of University Women offers a scholarship of \$400.00 to \$500.00 for which Imperial Valley women may apply.

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 high-ranking members of the organization. Information concerning these grants may be obtained from the adviser, Gamma Delta Chapter, Alpha Gamma Sigma.

At universities and colleges, scholarships are available for outstanding graduates of junior colleges. In general, applications for these scholarships should be made by January 1st of the year preceding enrollment.

Further information regarding scholarships may be secured from the Counselor.

### EXPENSES

Since no tuition is charged by the college, unless the student is classed as a non-resident, the only expenses that are normally incurred by him are for books, supplies, and a student-body card. These expenses are approximately \$50.00 a semester, 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, either at home or away; pays for the school paper; gives voting privileges and the opportunity to hold office; pays for one half 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; and gives reduced rates at some movie theaters. A student who registers for less than eight units 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

Graduates of Imperial Valley College who are entering San Diego State College or any other approved institution 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 teach-

ing. Under certain circumstances, up to one-half of the amount of the loan is canceled if students enter the teaching profession after graduation.

An **Imperial Valley College Emergency Loan Fund** is available to those who need assistance in meeting the current expense of books and supplies.

A limited **Textbook Loan Program** has also been established for needy students. Applications for assistance should be made through the counselor.

### GUIDANCE SERVICES

Each full-time student is assigned to a teacher-counselor, and he becomes a member of a counseling group of students who have similar occupational goals. Tests to help the student acquire knowledge about his special abilities and interests are given each semester and with the help of the teacher-counselor, the student can select courses on the basis of his scores, his demonstrated abilities, and his interests.

The counseling program is offered as a series of regular Psychology Courses: 9a, 9b, 9c, and 9d, with ½ unit of credit for each semester. Students attend group counseling sessions every other week for one hour. Some of these group meetings are devoted to college study skills including lecture note taking, library research methods, and techniques to improve listening and reading skills. Several of the group counseling sessions are devoted to an intensive study of the occupational fields in which the student is interested. This includes study trips to see these occupations in action, guest speakers who are successful in their occupations and a close look at current employment opportunities.

Besides the group meetings, each student has a regularly scheduled individual counseling session with his teacher-counselor once a month. In addition to this, he may make other appointments as the need arises. If a student should have trouble in any subject, his counselor is notified and an immediate conference to work on the problem is called so that a solution can be found while an adjustment is still possible.

In addition to the student's individual teacher-counselor, personal problems which the student may not wish to discuss with him may be discussed with a member of the administrative staff.

The counseling program is closely coordinated with the work study program so that students gain actual experience in the field of their choice while they are increasing their knowledge in the classroom.

The guidance and counseling program, as organized at Imperial Valley College, helps the student gain the greatest

possible advantage from his college experience for it aids the student to make the most of his potentialities and training by helping him to define his objective and then encourages him to make definite plans to reach that objective. It eliminates routine problems that often retard a student's progress and lets the student himself be free to formulate his plans and to meet situations and problems in a mature and intelligent manner.

### ACCREDITATION

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

### INSTITUTIONAL AFFILIATIONS

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

### APPROVAL BY VETERANS ADMINISTRATION

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

### 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, cheer leaders, two representatives-at-large, commissioner of activities, commissioner of publicity, commissioner of athletics, rally commissioner, and one representative each from the Associated Men Students and the Associated Women Students.

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 10½ 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 refreshment for the students.

### ATHLETICS

The college is a member of the South Central Junior College Conference, consisting of Antelope Valley (Lancaster), Ocean-side-Carlsbad, Palomar (San Marcos), Sweetwater (San Diego County), 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 month after the beginning of the semester.
- (2) Must be doing passing work in at least 10 units of work, in addition to physical education (if required), at

the time the certified list in which he is a member is issued.

- (3) After the first semester of attendance, must have passed in at least 10 units, in addition to physical education (if required), in his last semester of attendance.
- (4) Must be in good standing, meaning that he must not be on probation.
- (5) Unless a bonafide resident, must be enrolled one year before he is eligible for participation. 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 entrance examinations which include English placement and mathematics achievement tests.

1. Admission of **High School Graduates.** Graduates of four-year high schools (or equivalent) who have been honorably dismissed from the school last attended are eligible to apply for admission. An application for admission and a transcript of the secondary school record must be filed with the college registrar and evaluated by the admissions committee before admission is granted. Students who maintained a scholarship average of at least C in all work undertaken in the junior and senior years of high school are granted permission to register. Those who did not maintain a C average in the junior and senior years may be granted permission to register but are automatically placed on probation for the first semester. This probation may be removed at the end of one semester's work by the attainment of a grade point average of at least 1.5 (D+). (See Probation, page 31.)

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 Director of Instruction.

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.

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 16.)

5. Admission of **Students with Advanced Standing.** Applicants who have attended other colleges may be admitted with advanced standing upon recommendation of the Administration. 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 \$100.00 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. A fee, based on the estimated current expense cost is charged. This fee has been set at \$250.00 per semester by the Board of Trustees for the school year 1961-1962.

### 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.

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, if neither is living, of his 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.

### RELEASE POLICY

The Imperial Valley College Board of Trustees recognizes that under certain conditions it may be necessary for students residing in the Imperial Junior College District to attend junior colleges elsewhere.

However, the Board recognizes that the indiscriminate

issuance of permits to attend any junior college will result in a certain disadvantage to the local junior college program.

Therefore, the Board of the Imperial Junior College District has established the following regulation concerning releases which will prevail for the school year 1961-1962:

1. Students who have previously attended and earned college credits leading to an A.A. degree at other junior colleges may be released to return.
2. Graduating seniors and others who have not previously attended junior colleges will be released to attend if the student requires a college program which will not this year be offered at Imperial Valley College.

The provisions of release specified above apply equally to youth and to adults and to full-time and part-time students. Students granted a release to attend another junior college for the school year 1961-1962 will not necessarily be granted a release for the school year 1962-1963.

Releases must be applied for in person during July and August at the College office.

### DEFERMENT OF STUDENTS UNDER SELECTIVE SERVICE REGULATIONS

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

Although subject to change at any time, at present a I-S deferment for a year must be given to every college student regardless of when he is ordered to induction. A II-S deferment may be granted to a student if he makes a high enough scholastic average to warrant it. A student may be privileged to complete his four years of college work so long as he maintains the requisite scholastic average.

Students subject to the draft and desiring deferment should request that the college notify their draft boards of their attendance in school, and observe all other regulations concerning deferment. Students who need advice in this area are urged to see the Registrar.

**ATTENDANCE**

The college has no system of free cuts; therefore regular attendance at all classes is expected of all students enrolled.

A student may be excluded from further attendance in a class during any semester when his absences have exceeded the number of hours which the class meets per week.

Compliance with the following attendance regulations is expected:

**Excused and Authorized Absences**

1. In accordance with the provisions of the California Education Code, absence due to illness may be accepted for apportionment purposes. A student who has been absent because of illness, therefore, is expected voluntarily to present written verification of illness to the registrar's office and secure an excuse for presentation to instructors whose classes he has missed.

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

**Other Absences**

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

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

2. Three times tardy will be counted as one absence.

3. When a student has been absent without excuse from class as many hours as the class meets in one week, his teacher-counselor will be notified and efforts will be made to seek a solution to the problem.

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

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

**SCHEDULE LIMITATIONS**

A regular program is 15 to 17 units, including 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 new student is 17 units; exceptions will be made only by special permission of the Administration.

**CHANGES IN PROGRAM OF STUDY**

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

**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".

## 2. WITHDRAWAL GRADES

W Withdrawal

A student may drop classes before the end of the sixth week without penalty. A grade of "W" will appear on his records.

W/P Withdrawal, passing

W/F Withdrawal, failing

A student who drops classes any time between the end of the sixth week and the end of the tenth week will be given grades by his instructors which will be either W/P or W/F. In general, a student will receive a W/F if he has had excessive unexcused absences, has shown un-concern in meeting class requirements, or has been un-cooperative or negligent. A W/P may be given at the discretion of the instructor if the student is dropping through possible mis-counseling or evident **inability** to perform at the level demanded by that class even though he is making all reasonable effort.

A W/P may be given if the student drops because of some justifiable reason, such as illness or moving out of town, provided the student was passing in his work at the time of withdrawal.

A student who drops a class after the tenth week will receive a W/F unless he withdraws officially for some extremely justifiable reason, this reason to be approved by the administration. In any case, he will receive a

W/F in classes in which he was not passing at the time of withdrawal.

## 3. 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.

## MINIMUM SCHOLARSHIP REQUIREMENTS

**Warning** Any time during the school year that a student is having trouble in any subject, the teacher-counselor will be notified, and an immediate conference to work on the problem will be called. If satisfactory progress is not made, and if the mid-semester check of grades shows that a student is "noticeably unsatisfactory," he is placed on warning. "Noticeably unsatisfactory," may result from any one of the following conditions:

1. A grade point average of less than 1.5 (D+).
2. A grade of "F" in two or more subjects.
3. Neglect in attendance of classes in general.
4. Lack of serious interest in work undertaken.

Warning status is automatically removed if at the end of the semester the student achieves at least a 1.5 grade point average. If he does not attain this average in all work undertaken he is placed on probation.

**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.

Entering students who did not maintain an average of "C" in all work taken in the junior and senior years of high school are placed on probation for their first semester in junior college. If placed on probation, a student may be limited in terms of



course load if the counselor or the scholarship committee so recommends.

Any student on probation who in the next semester of attendance fails to achieve a 1.5 (D+) grade point average in units attempted during that semester will be subject to dismissal. (5 Calif. Adm. Code 15)

Students who have been dismissed because of double probation may, after one full semester, apply for readmission to the college. This application will be reviewed by a special scholarship committee.

Probationary status for scholastic deficiency is removed upon the student's demonstration of ability to achieve at least a 1.5 (D+) average for the following semester's class work.

**Graduation** To be eligible for graduation a student must maintain at least a 2.0 (C) grade point average in all work undertaken. (See Graduation Requirements, page 33.)

**REPETITION OF COURSES**

A student who receives a grade of "F" in a course may repeat that course one time. Grades for both semesters are recorded on the student's transcript.

Courses taken in other colleges for which the student received credit may not be repeated at Imperial Valley College.

**WITHDRAWAL FROM COLLEGE**

If it becomes necessary for a student to withdraw from the college before the end of a semester, he may obtain an honorable dismissal by making application to the Administration. When the application is accepted, the student is entitled to a "W/P" in each course in which he is certified by his instructor as doing work of passing grade and to "honorable dismissal" recorded on his permanent record. A course in which a student is failing at the time he withdraws will be recorded as "W/F". (See page 30.)

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

**PHYSICAL EDUCATION**

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

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

- (1) Physical disability
- (2) Age, twenty-five years or over

- (3) Postgraduate standing or completion of requirements for graduation
- (4) Enrollment in 8 or fewer units
- (5) Completion of basic or recruit training in any of the Armed Forces of the United States. (5 Cal. Adm. Code 99b)

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

Students over twenty-five years of age may not enroll in an evening physical education activity class. (5 Calif. Adm. Code 120.3.) Those between the ages of twenty-one and twenty-five may enroll only if they are enrolled in eight or more units excluding physical education.

**GRADUATION REQUIREMENTS**

Upon the completion of the following requirements, students at Imperial Valley College will be granted the degree, Associate in Arts. Responsibility for filing a petition for graduation rests with the student. This petition is to be filed with his teacher-counselor at the time of registration for the last semester in attendance before graduation.

- I. Unit Requirement
  - There must be satisfactory completion of at least 60 units of work.
- II. Scholarship Requirement
  - A grade point average of 2.0 (C) or higher must be earned in all work undertaken.
- III. Residence Requirement
  - The residence requirement may be met in one of the following ways:
    - A. Completion of at least the last 15 units at Imperial Valley College,
    - B. Completion of a minimum of 54 units at Imperial Valley College if not in attendance at the time of qualification for graduation.
- IV. Specific Subject Requirements
  - A. **English**
    - This requirement may be satisfied by completion of at least 6 units from one of the following course sequences:
      - 1. English 1A-1B;

2. English 51A-51B;
3. Business 80A-80B;
4. English 1A plus 3 units from English 15, English 56A-56B, Business 80B, Journalism, or Speech.

**B. Physical Education (2 units)**

California State law requires all junior college students to take directed physical education activities each semester until four separate semesters of credit are earned. Exemption from this requirement may be granted for the following reasons:

1. The student is twenty-five years of age or older,
2. The student is carrying eight or fewer units,
3. The student has a disability and presents a physician's statement of the disability and a modified program of physical education is not available.

Note: A student who has completed a basic training program in any of the Armed Forces of the United States may verify this fact for his teacher-counselor and may file a petition requesting that credit be given for Physical Education to meet this requirement. (5 Cal. Adm. Code 99b)

**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 for his teacher-counselor and file a petition with him requesting that credit be given for Physical Education 21. (5 Cal. Adm. Code 99b)

**D. Constitution of the United States, American History, and State and Local Government**

This requirement may be met by completion of History 17A-17B which has been designed to meet all California Education Code requirements in American history, the Constitution, and principles of state and local government.

**E. Psychology 9A, 9B, 9C, 9D**

NOTE: A student who is attending only night classes or who is registered for eight or less units per semester may petition to be excused from this requirement.

**F. Mathematics**

A satisfactory grade on the mathematics proficiency test or Mathematics 51 is required.

**V. 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. BIOLOGICAL SCIENCE (anatomy, biology, botany, psychology 1B, physical anthropology, physiology, zoology)
- C. BUSINESS
- D. ENGINEERING
- E. ENGLISH (English, journalism, speech, drama)
- F. HUMANITIES (humanities, art, music, literature, philosophy)
- G. LANGUAGES (English, French, Spanish)
- H. MATHEMATICS (mathematics, engineering, physics)
- I. POLICE SCIENCE
- J. PHYSICAL SCIENCE (physical science, chemistry, geography, geology, physics)
- K. SOCIAL SCIENCE (anthropology, economics, education, geography, history, psychology, sociology)
- L. VOCATIONAL (completion of a Vocational Work-study Program in a specific field combined with a program of related courses approved by the Administration)
- M. LETTERS AND SCIENCE (Completion of lower division requirements in a selected field as required for upper division standing at a specific university or college)

**VI. Minor Requirement**

This requirement may be met in one of the following ways:

- A. Completion of 9 units in one of the fields of study (other than the major) listed above under V, or
- B. Completion of the lower division requirements of the college or university to which the student wishes to transfer.

## TRANSFER REQUIREMENTS

Two principal kinds of requirements must be met in order to attain full junior standing at San Diego State College, the University of California at Los Angeles 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.

All California State Colleges require a minimum of 45 units of credit in **general education** for graduation at the end of four years. 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 from the California Administrative Code for the requirements for the degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Education degrees granted by state colleges may be of help to students as they plan their junior college courses of study (5 Cal. Adm. Code 919, 920, 921):

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

- (a) General Education, minimum—45 units.  
The courses in General Education shall be distributed in the following manner:

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

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
- (5) Oral and Written Expression ..... 3
- (6) Psychology ..... 2
- (7) Additional units in General Education to be determined by each college ..... 14

The above requirements are the minimum requirements in the field of **general education**. Each college may have, in addition, its own general requirements for graduation. These are in addition to the major and minor requirements in the student's chosen field.

For example, San Diego State College lists the following general academic requirements in addition to or interpreting those listed above.

### Specific Course Requirement

1. Oral communication—2 units
2. Written communication—3 units
3. At least one unit in a laboratory science
4. Physical Education—2 units in activity, 2 units in health
5. Psychology—3 units

### General Requirements

1. Successful completion of competency tests in English, mathematics, and speech
2. A minimum of 124 units for the A.B. degree or 128 to 132 units for the B.S. degree (depending on the major subject)
3. At least 40 upper division units for the A.B. and at least 36 upper division units for the B.S. degree
4. Grade point average of at least C

In State Colleges, a maximum of 70 semester units earned in a junior college may be applied toward the 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. (5 Cal. Adm. Code 917.) 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 the head counselor.

It is important that each student make a long-range plan for his college study, in conference with his teacher-counselor, so that all requirements for the Associate in Arts degree can be met, and so, 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 teacher-counselor will give every assistance possible, it is the 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 in Arts degree and at the same 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 bulletin of the institution he expects to attend, and that he make, in consultation with his teacher-counselor, the necessary adjustments in the suggested curricula of his choice.

### Transfer Curricula Majors

#### Agriculture

- Animal Husbandry
- Business
- Crop Production
- Engineering
- Farm Management

#### Business Administration

- Accounting
- Banking and Finance
- Business Education
- Business Management
- Industrial Management
- Insurance
- Management and Administration
- Office Management
- Personnel Management
- Real Estate
- Secretarial Management

#### Education

- Elementary
- Kindergarten-Primary
- Secondary

#### Engineering

#### English

#### French

#### Geography

#### Latin American Studies

#### Letters and Science

- Business Administration
- Economics
- English
- French
- History
- Psychology

#### Philosophy

#### Physics

#### Pre-professional

#### Psychology

#### Social Science

#### Sociology

#### Spanish

## Semiprofessional Curricula

The Semiprofessional Curricula have been designed to meet all of the requirements for the Associate in Arts degree, and at the same time prepare the student for employment and/or enrichment of his cultural background.

## Semiprofessional Majors

## Vocational

Agriculture  
Bookkeeping  
Engineering  
Merchandising  
Police Science  
Secretarial  
Vocational Work-Study Education

## Liberal Arts

Biological Science  
Business  
English  
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 in Arts 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

## Davis Transfer

Prepares for the junior year at the University of California at Davis.<sup>1</sup>

## Freshman

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ..		3
Hist	17AB	History of the U.S. ....	3	3
		<sup>2</sup> Selected courses, and		
		<sup>3</sup> Electives .....	9-10	9-10
			16-17	16-17

## Sophomore

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
P.E.	21	Health Education .....	2	
Speech	1A	Speech .....		2
		<sup>2</sup> Selected courses, and		
		<sup>3</sup> Electives .....	13-14	13-14
			16-17	16-17

<sup>1</sup>—Lower division requirements for all Agricultural majors at Davis are the same. In upper division the student specializes in **Business Management, Production, Animal Science, or Entomology and Parasitology.**

<sup>2</sup>—To be admitted in junior standing in the College of Agriculture at Davis, the student must have completed a total of 9 units in mathematics (which may include high school mathematics presented for admission with recommended status) and 40 units selected from the lists below, with not less than 18 units from Group A and not less than 12 units from Group B.

## Group A—

Botany 1  
Chemistry 1A-1B  
Geology 1  
Mathematics 3A-3B  
Physics 2A-2B  
Physiology 1  
Zoology 1A-1B

## Group B—

Business 1A-1B  
Economics 1A-1B  
English 1A-1B  
History 17A-17B  
Psychology 1A  
Speech 1A-1B

<sup>3</sup>—In addition to the requirements listed under 2, the student must choose electives to complete the required units for graduation from junior college. At least one course in Agriculture, approved by the student's counselor, must be included each semester.

**AGRICULTURE**  
**Semiprofessional**

Leads to employment at the end of two years.

**Freshman**

Dept.	Course	Subject	Sem. 1	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity .....	½	½
Eng		<sup>1</sup> English Sequence .....	3	3
Hist	17AB	History of the U.S. ....	3	3
		<sup>2</sup> Agriculture Electives .....	5- 8	5- 8
		<sup>3</sup> Minor .....	3	3
			<hr/>	<hr/>
			15-18	15-18

**Sophomore**

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity .....	½	½
Speech	1A	Speech .....	2	
P.E.	21	Health Education .....		2
Math	6	Agricultural Mathematics ..		4
		<sup>2</sup> Agriculture Electives .....	9-12	8-11
		<sup>3</sup> Minor .....	3	
			<hr/>	<hr/>
			15-18	15-18

<sup>1</sup>—Six units of English are required for graduation. These may be selected from English 51A-51B; English 1A-1B; English 1A plus three units from English 15, English 56A, Business 80B, Journalism, or Speech.

<sup>2</sup>—Courses in Agriculture may be selected according to the major interest of the student.

<sup>3</sup>—A minor of nine units is required for graduation.

**AGRICULTURE — ANIMAL HUSBANDRY**

Prepares for the junior year at California State Polytechnic College, Kellogg-Voorhis or San Luis Obispo Campus.

**Freshman**

Dept.	Course	Subject	Sem. 1	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity .....	½	½
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature....		3
Hist	17AB	History of the U.S. ....	3	3
Bot	1A	General Botany .....	4	
Math	6	Agricultural Mathematics ..		4
P.E.	21	Health Education .....	2	
Ag	20	Introduction to Animal Husbandry .....	4	
Ag	21	Feeds and Feeding .....		4
Ag	22	Livestock Judging .....		2
			<hr/>	<hr/>
			17	17

**Sophomore**

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity .....	½	½
Zoo	1AB	General Zoology .....	4	4
Speech	1A	Speech .....	2	
Econ	1A	Principles of Economics ....	3	
Ag	12	Forage Crops .....		4
Ag	23	Beef Production .....		3
Ag	24	Sheep Production .....	3	
Ag	30	Agricultural Mechanics ....	4	
Ag	31	Farm Machinery .....		2
Ag	40	Soils & Soil Management .....		4
			<hr/>	<hr/>
			17	18

**AGRICULTURE — BUSINESS MANAGEMENT**

Prepares for the junior year at California State Polytechnic College, Kellogg-Voorhis or San Luis Obispo Campus.

**Freshman**

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature....		3
Hist	17AB	History of the U.S. ....	3	3
Psych	1A	General Psychology .....	3	
Math	6	Agricultural Mathematics ..		4
Ag	1	Selected Science .....	3- 4	3- 4
		Introduction to Agricultural Business .....	3	
		Agriculture electives .....		3
			16-17	17-18

**Sophomore**

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Econ	1AB	Principles of Economics ....	3	3
Bus	1AB	Principles of Accounting ....	3	3
Bus	30AB	Business Law .....	3	3
Speech	1A	Speech .....	2	
P.E.	21	Health Education .....	2	
Ag	30	Agricultural Mathematics ..	3	
		Agriculture electives .....		6
			17	16

1—Students expecting to attend the San Luis Obispo Campus should schedule Botany 1A and Zoology 1A. Those who expect to attend the Kellogg-Voorhis Campus should schedule Biology 3 and Physical Science 5.

**AGRICULTURE — CROP PRODUCTION**

Prepares for the junior year at California State Polytechnic College, Kellogg-Voorhis and San Luis Obispo Campus.

**Freshman**

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
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
Math	6	Agricultural Mathematics ..		4
Ag	11AB	Truck Crops .....	4	4
Ag	13	Weeds & Poisonous Plants	2	
Ag	41	Fertilizers .....	4	
		Agriculture Electives .....		3
			17	18

**Sophomore**

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Econ	1AB	Principles of Economics ....	3	3
Speech	1A	Speech .....	2	
P.E.	21	Health Education .....		2
Bot	1A	General Botany .....	4	
Ag	30	Agricultural Mechanics ....	4	
Ag	31	Farm Machinery .....		2
Ag	40	Soil and Soil Management		4
		Agriculture Electives .....	3	3-6
			17	15-18

**AGRICULTURE ENGINEERING**

Prepares for the junior year at California State Polytechnic College, San Luis Obispo Campus.

**Freshman**

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
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
Econ	1AB	Principles of Economics ....	3	3
Math	3AB	Analytic Geometry and Calculus .....	4	4
Math	9	Technical Mathematics ....	3	
Engr	2	Engineering Drawing .....		3
			17	17

**Sophomore**

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Physics	2AB	General Physics .....	4	4
P.E.	21	Health Education .....	2	
Speech	1A	Speech .....		2
Ag	23	Beef Production .....		3
Ag	30	Agricultural Mechanics ....	4	
Ag	31	Farm Machinery .....		2
Ag	32	Irrigation and Drainage ....	4	
Ag	33	Farm Tractors .....		2
Ag	40	Soils & Soil Management		4
Engr	28	Plane Surveying .....	3	
			18	18

**AGRICULTURE — FARM MANAGEMENT**

Prepares for the junior year at California State Polytechnic College, San Luis Obispo Campus.

**Freshman**

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
Eng	1A	Physical Education Activity	½	½
P.E.		Composition .....	3	
Eng	1B	Introduction to Literature ..		3
Hist	17AB	History of the United States	3	3
Math	6	Agricultural Mathematics ..		4
Bot	1A	General Botany .....	4	
Ag	1	Introduction to Agricultural Business .....	3	
		Agriculture Electives .....	2-3	5-6
			16-17	16-17

**Sophomore**

Psych	9DC	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Econ	1AB	Principles of Economics ....	3	3
P.E.	21	Health Education .....	2	
Speech	1A	Speech .....		2
Zoo	1AB	General Zoology .....	4	4
Ag	30	Agricultural Mechanics ....	4	
Ag	40	Soils & Soil Management		4
		Agriculture Electives .....	3	3
			17	17



**BOOKKEEPING**

Prepares for employment at the end of Sophomore Year.

**Freshman**

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Bus	80A	Business English .....	3	
Bus	80B	Business Correspondence ..		3
Bus	71	Elementary Typing .....	3	
Bus	72	Advanced Typing .....		3
Bus	67AB	Bookkeeping .....	3	3
Bus	16	Introduction to Business ....	2	
P.E.	21	Health .....		2
Bus	61	Business Mathematics .....	2	
Bus	17	Business Management .....		2
		<sup>1</sup> Elective .....	2- 3	2- 3
			16-17	16-17

**Sophomore**

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Bus	73	Office Machines .....		3
Bus	30AB	Business Law .....	3	3
Bus	51	Income Tax .....	2	
Bus	1AB	Accounting .....	3	3
Hist	17AB	United States History .....	3	3
		<sup>2</sup> Selected Social Science Course .....	3	
		<sup>1</sup> Elective .....	0- 2	2- 3
			15-17	15-16

<sup>1</sup>—Suggested electives: Speech 1AB, English 15, Economics, Shorthand, Music, Art, Literature.

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

**BUSINESS ADMINISTRATION**

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

The following course meets the lower division requirements at San Diego State in Business Administration in the fields of ACCOUNTING (Department of Accounting), INSURANCE, REAL ESTATE (Department of Business Law, Real Estate and Insurance), BANKING AND FINANCE, BUSINESS MANAGEMENT, and PERSONNEL MANAGEMENT (Department of Management).<sup>2</sup>

**Freshman**

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Bus	1AB	Elementary Accounting ....	3	3
Bus	30AB	Business Law .....	3	3
Eng	1A	Composition .....	3	
Bus	2	Mathematics of Finance ....		3
		<sup>3</sup> Selected Science Course ....	3	3
Econ	1AB	Principles of Economics ....	3	3
			16	16

**Sophomore**

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Hist	17AB	History of the United States	3	3
Psych	1A	General Psychology .....	3	
Speech	1A	Speech .....		2
P.E.	21	Health .....		2
		<sup>4</sup> Selected Course in Literature, Music, Art, or Philosophy .....	3	3
Eng	1B	Introduction to literature ....	3	
Bus	80B	Business Correspondence ..		3
		<sup>3</sup> Selected Science Course ....	3	
		<sup>5</sup> Elective .....		2-3
			16	16-17

<sup>1</sup>—See page 63 for Business Administration Curricula which prepares for junior year at University of California at Los Angeles.

<sup>2</sup>—A major in Business Administration in the field of INDUSTRIAL MANAGEMENT requires Engineering 2 (3) which may be chosen as an elective, and Mathematical Analysis (6) which may be taken in the junior year.

<sup>3</sup>—A total of at least 9 units of Science (including one physical and one biological science, and at least one unit of laboratory work) should be scheduled.

<sup>4</sup>—Six units are required in the field of the Arts, at least three of which must be in Literature or Philosophy

<sup>5</sup>—Suggested electives: English 15, Business 71, 72, 73, or 80B.

**BUSINESS EDUCATION**

Leads to the junior year at San Diego State College and to either the Special Secondary Teaching Credential or the General Secondary Teaching Credential.

Freshman				
Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Eng	1A	Composition .....	3	
Eng		Selected Course in Literature .....		3
Bus	1AB	Principles of Accounting ....	3	3
Bus	30AB	Business Law .....	3	3
Bus	72	<sup>1</sup> Advanced Typing .....	3	
		<sup>2</sup> Selected Science Course ....	3	3
Bus	73	Office Machines .....		3
			16	16

Sophomore				
Dept.	Course	Subject	Sem. I	II
Psych	9CD	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Speech	1A	Elementary Speech .....	2	
P.E.	21	Health .....		2
		<sup>2</sup> Selected Science Course ....	3	
		Selected Literature, Music, Art, Philosophy .....		3
Bus	80B	Business Correspondence ..		3
Econ	1AB	Principles of Economics .....	3	3
Hist	17AB	History of the United States	3	3
Psych	1A	General Psychology .....	3	
		<sup>3</sup> Selected Course .....	3	0-3
			18	15-18

<sup>1</sup>—Advanced Typing or its equivalent is required.  
<sup>2</sup>—A total of at least 9 units of Science (including one physical and one biological science, at at least one unit of laboratory work) should be scheduled.  
<sup>3</sup>—A Business Education major must select two subfields from the following list, of which **Accounting** or **Secretarial** must be one, and take the required courses listed:  
**Accounting**—Business 2, Mathematics of Finance (3)  
**Secretarial**—Business 75AB, Shorthand (3-3)  
**Business Management**—Business 2, Mathematics of Finance (3)  
**Merchandising**—Business 50, Salesmanship (3)  
 Additional suggested electives include any course in the field of Business, Speech 1B, English 15, Psychology 1B, or lower division requirements in the chosen minor teaching field.

**EDUCATION**

**General Elementary and Kindergarten - Primary**  
 Prepares for the junior year at San Diego State College.

Freshman				
Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ..		3
Hist	17AB	History of the United States	3	3
Art	9	Design .....	3	
Art	10	Crafts .....		3
Geog	1, 2	Physical and Cultural Geography .....	3	3
P.E.	21	Health .....		2
Ed	10	Introduction to Education ..	2	
		<sup>1</sup> Electives .....	0-2	0-2
			15-17	15-17

Sophomore				
Dept.	Course	Subject	Sem. I	II
Psych	9CD	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Music	7A	Music Fundamentals .....	3	
Music	7B	Music Materials .....		3
P.E.	53	Elementary Games and Activities .....		3
Psych	1A	General Psychology .....	3	
Biol	3	<sup>2</sup> Biological Science .....	3	
Math	10	Mathematics for General Education .....	3	
Phy Sci	5	<sup>2</sup> Introduction to Physical Science .....		3
Music	10AB	<sup>3</sup> Piano .....	1	1
Speech	1A	Speech .....		2
		<sup>1</sup> Electives .....	2-3	2-4
			16-17	15-17

<sup>1</sup>—Electives should be chosen that will partially fulfill the requirements of the teaching minor. As many as 9 units of lower division work may be counted in one of the following fields offered at Imperial Valley College: **English** (must include American Literature), **Spanish, French, Mathematics, or Social Studies** (includes Anthropology, Economics, Geography 2, History or Sociology). Biology 3 and Physical Science 5 may be applied to the teaching minor in **General Science**.  
<sup>2</sup>—A total of 9 units, including one unit of laboratory work, is required in the field of natural science. Biology 3 and Physical Science 5 are highly recommended and have been included in the suggested course; however, any of the following may be substituted: Chemistry, Geology, Physics, Physiology or Zoology. Geography 1 may be counted as 3 units of physical science.  
<sup>3</sup>—Music 10AB (or equivalent) is required for the Kindergarten-Primary Credential but not for the Elementary Credential.

**EDUCATION**

**General Elementary and Kindergarten - Primary**

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

This course presupposes that the student has completed the basic academic core of college preparatory subjects in high school as listed on pages 24-25. If deficiencies exist, these may be removed by taking elective courses that will meet the requirements.

**Freshman**

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity .....	½	½
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ..		3
Geog	1, 2	Physical and Cultural Geography .....	3	3
		<sup>1</sup> Physical Science .....	3- 4	3- 4
Art	9	Art Design .....	3	
Art	10	Crafts .....		3
Music	7A	Music Fundamentals .....	3	
Music	7B	Music Materials .....		3
			16-17	16-17

**Sophomore**

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity .....	½	½
Psych	1AB	General Psychology .....	3	3
		<sup>2</sup> Biological Science .....	3- 4	
		Music 30AB or Philosophy 1AB .....	3	3
P.E.	53	Elementary School P.E. Activities .....		3
P.E.	21	Health .....	2	
Hist	17AB	United States History .....	3	3
Math	10	Mathematics for General Education .....		3
		Elective .....	2	
			17-18	16

<sup>1</sup>—Chosen from Chemistry 1A; Geology 1A; Mathematics C,1; Physics 1AB.

<sup>2</sup>—Chosen from Anthropolgy 1; Zoology 1AB.

NOTE—Students working toward the Kindergarten-Primary Credential should enroll in Music 10AB (1-1) if they do not play the piano.

Students working toward the Elementary Credential must plan to take Mathematics 38 (Fundamentals of Arithmetic) in their junior year.

**EDUCATION**

**Secondary**

A student who wishes to prepare for the field of teaching at the secondary level should choose a **teaching major** and a **teaching minor**.

If he expects to attend San Diego State College, 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.

**Teaching Majors**

Imperial Valley College offers work that will fulfill the lower division prerequisites for San Diego State College for the following teaching majors:

Business Education	Romance Languages
English	Social Science
French	Spanish

**Teaching Minors**

Following is a list of courses offered at Imperial Valley College that will meet the prerequisites of San Diego State College for teaching minors:

Business Education: Business 1A-1B, Business 72 or equivalent.

Economics: Economics 1A-1B and either Geography 1, 2; Sociology 1A-1B; or Anthropology 1, 2.

English: English 1A; English 56A-56B.

French: French 1, 2, 3, 4 (or equivalent).

History: History 4A-4B or 8A-8B or 17A-17B and six to nine units from Anthropology, Economics, Geography 2, Political Science, or Sociology.

Social Science: Three of the following—Anthropology 1, 2; Economics 1A-1B; Geography 1, 2; History 4A-4B or 8A-8B; Political Science 1A-1B; or Sociology 1A-1B.

Spanish: Spanish 1, 2, 3, 4 (or equivalent).

If the student expects to attend the University of California at Los Angeles, he should follow the Letters and Science curriculum at Imperial Valley College and should be sure to include the following: Science and/or Mathematics, 6 units; Practical and/or Fine Arts, 6 units; Social Science, 6 units; Communicative Arts (including English 1A), 6 units; Psychology 1A-1B, 6 units; all prerequisites for upper division work in the teaching major field; and as many prerequisites as possible for upper division work in the teaching minor field.

Teaching majors and teaching minors do not necessarily parallel the majors and minors required for the bachelors degrees. The student should consult the catalogs of the school(s) he wishes to attend in his junior, senior and post graduate years to be sure that all prerequisites are met.

## ENGINEERING

Prepares for the junior year of college work.

## Freshman

Dept.	Course	Subject	Sem. 1	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ..		3
Physics	2AB	General Physics .....	4	4
Math	3AB	Analytic Geometry and		
Hist	17AB	Calculus .....	4	4
		History of the United States	3	3
		<sup>1</sup> Elective .....	3	3
			18	18

## Sophomore

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
P.E.	21	Health Education .....	2	
Chem	1AB	General Inorganic		
		Chemistry .....	5	5
		<sup>1</sup> Electives .....	7-10	9-12
			15-18	15-18

<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. Before planning a study list, the junior college student should consult with his counselor and study the catalog of the senior institution to which he expects to transfer.

Electives should be chosen (1) that will meet the lower division requirements of the institution to which he expects to transfer, (2) that will fulfill the required prerequisites for upper division work in both the major and minor fields (if required), and (3) that will fulfill the general education requirements of most four-year institutions.

## ENGINEERING TECHNICIAN

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

## Freshman

Dept.	Course	Subject	Sem. 1	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Eng		<sup>1</sup> English Sequence .....	3	3
Hist	17AB	History of the United States	3	3
Math	9	Technical Mathematics .....	3	
Engr	1A	Mechanical Drawing .....	3	
Astro	1	Elementary Astronomy .....	4	
Math		<sup>2</sup> Mathematics .....		3
Engr	D	Engineering Drawing .....		3
Chem	2	Introduction to Chemistry ..		4
			17	17

## Sophomore

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Math	C	Plane Trigonometry .....	3	
P.E.	21	Health Education .....		2
Phy Sci	5	Introduction to Physical		
		Science .....	3	
Engr	5	Description Geometry .....	3	
Engr	28	Plane Surveying .....	3	
Agr	32	Irrigation and Drainage ....	4	
Engr	10	Engineering Problems .....		3
Engr	23	Manufacturing Processes ..		3
Engr	25	Properties of Materials .....		3
Engr	29	Surveying .....		3
		<sup>3</sup> Elective .....		0-3
			17	15-18

<sup>1</sup>—English Sequence may be chosen from any one of the following: English 1A-1B; English 51A-51B; English 1A plus three units from English 15, English 56A, Journalism, or Speech 1A-1B.

<sup>2</sup>—Any three unit mathematics course selected with approval of the counselor.

<sup>3</sup>—Suggested electives: Psychology 1A, Speech, Geology 1A.

**ENGLISH**

Prepares for the junior year at San Diego State College.

**Freshman**

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ..		3
		<sup>1</sup> Selected Social Science Course .....	3	
Hist	17AB	United States History .....	3	3
		<sup>2</sup> Foreign Language .....	0-4	0-4
		<sup>3</sup> Elective .....	0-4	0-4
		<sup>4</sup> Selected Science .....	3-4	3-4
P.E.	21	Health .....		2
Not to Exceed			17	18

**Sophomore**

Psych	9CD	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Eng	30AB	American Literature .....	3	3
		<sup>4</sup> Selected Science .....	3	
Psych	1A	General Psychology .....	3	
Eng	56AB	Survey of English Literature .....	3	3
Speech	1A	Speech .....		2
		<sup>2</sup> Foreign Language .....	0-4	0-4
		<sup>3</sup> Elective .....	0-4	1-9
Not to Exceed			17	18

<sup>1</sup>—The Social Science may be selected from History, Sociology, Anthropology, Geography or Economics.

<sup>2</sup>—The major in English at San Diego State College requires 12 units (or equivalent) of a foreign language and French or German is strongly recommended. Note: Not all colleges have the language requirement for English majors in undergraduate work, but most require at least one language for graduate degrees.

<sup>3</sup>—Suggested electives: Speech 1B, Art, Music, History 4AB, English 15, Psychology 1B.

<sup>4</sup>—A total of at least 9 units of Science (including one physical and one biological science, and at least one unit of laboratory work) should be scheduled.

**FRENCH**

Prepares for the junior year at San Diego State College.

**Freshman**

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
French		French .....	4	4
Spanish		<sup>1</sup> Spanish .....	4	4
Hist	17AB	History of the United States	3	3
		<sup>2</sup> Selected Science Course ....	3	3
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ....		3
Not to Exceed			18	18

**Sophomore**

Psych	9CD	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
French		French .....	4	4
Psych	1A	General Psychology .....	3	
Hist	4AB	History of Western Civilization .....	3	3
		<sup>2</sup> Selected Science Course ....	3-4	
		Selected Literature, Music, Art or Philosophy .....		3
Speech	1A	Speech .....	2	
P.E.	21	Health .....		2
		<sup>3</sup> Elective .....		3
Not to Exceed			16-17	16

<sup>1</sup>—A major in French requires a year course in Spanish, German, or Latin. (German or Latin may be taken in the junior year if desired.)

<sup>2</sup>—A total of 9 units of Science (including at least one physical and one biological science, and at least one unit of laboratory) is required.

<sup>3</sup>—Suggested electives: Psychology 1B, Speech 1B, Typewriting, additional Spanish, Art, Music, Philosophy, English 15.

## GEOGRAPHY

Prepares for the junior year at San Diego State College.

## Freshman

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Geog	1, 2	Physical and Cultural Geography .....	3	3
		<sup>1</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 .....	2	
		<sup>2</sup> Selected biological science		3- 5
		<sup>3</sup> Electives .....	0- 5	0- 3
Not to exceed			18	18

## Sophomore

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
		<sup>1</sup> Foreign Language .....	0- 4	0- 4
		<sup>4</sup> Selected Music, Literature, Art, Philosophy .....	3	3
Psych	1A	General Psychology .....	3	
Geol	1AB	Physical and Historical Geology .....	3	3
P.E.	21	Health .....		2
		<sup>2</sup> Electives .....	0- 7	0- 8
Not to exceed			18	18

<sup>1</sup>—A reading knowledge of French, Spanish or German is recommended for the Geography major.

<sup>2</sup>—The biological science may be selected from Anatomy, Biology, or Zoology.

<sup>3</sup>—Suggested electives: Sociology, Anthropology, History, Speech 1B, English 15, Psychology 1B.

<sup>4</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

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
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 .....	2	
P.E.	21	Health .....		2
		<sup>1</sup> Selected Science .....	3- 4	3- 4
		<sup>2</sup> Foreign Language .....	0- 4	0- 4
		<sup>3</sup> Electives .....	0- 4	
Not to exceed			17	18

## Sophomore

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity .....	½	½
Hist	8AB	History of the Americas ....	3	3
Hist	17AB	History of the United States	3	3
		<sup>1</sup> Selected Science .....	3	
		<sup>4</sup> Selected Art, Music, Literature or Philosophy	3	3
		<sup>5</sup> Selected Social Science ....	3	3
		<sup>3</sup> Elective .....		2- 5
Not to exceed			16	18

<sup>1</sup>—A total of 9 units of Science (including one physical and one biological science, and at least one unit of laboratory work) should be scheduled.

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

<sup>3</sup>—Suggested electives: Economics 1A-1B, Political Science 1A-1B, Foreign Language, Speech 1B, Psychology 1B, Business 71, English 15.

<sup>4</sup>—Fine and practical arts not to exceed 3 of the 6 units.

<sup>5</sup>—Political Science 1AB or Economics 1AB.

**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
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Hist	17AB	United States History .....	3	3
P.E.	21	Health .....	2	
Speech	1A	Speech .....		2
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
			15-18	15-18

Sophomore				
Psych	9CD	Guidance Workshop .....	½	½
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
		<sup>3</sup> Elective .....		3
			17	17

- <sup>1</sup>—A total of 9 units of Science (including one physical and one biological science, and at least one unit of laboratory work) should be scheduled.
- <sup>2</sup>—Three 6 unit courses from Anthropology 1, 2; Economics 1AB, Geography 1, 2; History 8AB are prerequisites for the major in Latin American Studies.
- <sup>3</sup>—Suggested electives: 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.

**LIBERAL ARTS**

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.

Freshman				
Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
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
P.E.	21	Health .....	2	
		Elective .....	1- 3	3- 5
			15-17	15-17

Sophomore				
Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Hist	17AB	United States History .....	3	3
		<sup>2</sup> Courses in Selected Major Field .....	5- 6	5- 6
		<sup>3</sup> Courses in Selected Minor Field .....	3	3
		Electives .....	2- 5	3- 8
			15-17	15-17

- <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 15, 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, Psychology 1B, Physiology, Zoology)
  - Business**
  - English** (English, Journalism, Speech)
  - Humanities** (Humanities, Art, Music, Literature, Philosophy)
  - Languages** (English, French, Spanish)
  - Mathematics** (Mathematics, Engineering, Physics)
  - Physical Science** (Physical Science, Chemistry, Geography, Geology, Physics)
  - Social Science** (Anthropology, Economics, Education, 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.)

## LETTERS AND SCIENCE

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

This course presupposes that the student has completed the basic academic core of college preparatory subjects in high school as listed on pages 24-25. If deficiencies exist, these may be removed by taking elective courses that will meet the requirements.

Freshman				
Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity .....	½	½
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ....		3
Hist	17AB	<sup>1</sup> Physical Science .....	3- 4	3- 4
		History of the United States .....	3	3
		<sup>2</sup> English 30AB, Philosophy 1AB, or Music 30AB ....	3	3
		<sup>3</sup> Prerequisites for minor and/or major, or Elective .....	3- 4	0- 3
P.E.	21	Health .....		2
			16-17	15-18
Sophomore				
Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity .....	½	½
		<sup>4</sup> Foreign Language or Elective .....	0- 4	0- 4
		<sup>5</sup> Social Science .....	3	3
		<sup>6</sup> Biological Science .....	3- 4	3- 4
		<sup>2</sup> English 30AB, Philosophy 1AB or Music 3AB .....	3	3
		<sup>3</sup> Prerequisites for major and/or minor, or Elective .....	3- 6	3- 6
			15-18	15-18

<sup>1</sup>—A total of at least 5 units in Physical Science is required. Choice may be made from Chemistry 1AB; Geography 1; Geology 1, 2; Physics 2AB; or one course from Math C, 1, or 3A.

<sup>2</sup>—Two courses chosen from English 30AB, Philosophy 1AB, or Music 30AB will meet the requirement in Humanities.

<sup>3</sup>—Courses should be chosen that will meet all lower division requirements for the minor and/or major field of the student's choice. These courses, together with the recommended electives, are listed below.

<sup>4</sup>—The Foreign Language requirement of 16 units in not more than two languages may be met in part by high school language: 4 units of credit for 1st and 2nd year, 4 units each for 3rd and 4th year. A full college year is required if beginning a language.

<sup>5</sup>—A total of at least 6 units, including two subjects exclusive of history, is required in Social Science. Choice may be made from Anthropology 1B, Economics 1A, Geography 2, Psychology 1A, or Sociology 1A.

<sup>6</sup>—A total of at least 5 units in Biological Science is required. Choice may be made from Anthropology 1A, Psychology 1B, or Zoology 1A, 1B.

## MAJOR FIELDS AND CURRICULA IN LETTERS AND SCIENCE

Imperial Valley College offers courses that will meet the lower division requirements in the following majors and curricula at the University of California at Los Angeles:

**BUSINESS ADMINISTRATION**—Required: Business 1AB, Economics 1AB, and Mathematics 3AB.

Students who wish to major in this field must transfer to the School of Business Administration at U.C.L.A. at the beginning of their junior year. The aim of the School of Business Administration is to provide for qualified students a well-balanced education for careers in business at the MANAGEMENT AND ADMINISTRATIVE LEVELS. The general and specific requirements of the School are designed to furnish a broad preparation for careers of management rather than a highly specialized proficiency in a particular occupation. Entrance requirements to this school are met by the Letters and Science curriculum with the inclusion of the courses listed above.

**EARLY CHILDHOOD**—Required: English 1A-1B; Psychology 1A-1B; Art 9; Music 7A; Physical Education 53.21.

**ECONOMICS**—Required: Economics 1AB  
Recommended: Business 1AB.

**ENGLISH**—Required: English 1AB and 56AB.

Recommended: Additional courses in foreign language.

**FRENCH**—Required: French 1, 2, 3, 4 (or equivalent).

**GENERAL ELEMENTARY EDUCATION**—Required: English 1A-1B; Psychology 1A-1B; Art 9; Music 7A; Physical Education 53, 21; Mathematics 10 (See page 93).

**HISTORY**—Required: History 4AB and 8AB and minor prerequisites in Anthropology (1, 2), Economics (1AB), Geography (1,2), Philosophy (1AB) or Sociology (1AB).

Recommended: French, Spanish.

**INTERNATIONAL RELATIONS**—Political Science 1A-1B; History 4A-4B, 8A-8B; Economics 1A-1B; Geography 1, 2. Recommended: Anthropology 1A-1B.

**POLITICAL SCIENCE**—Required: Political Science 1A-1B.

**PSYCHOLOGY**—Required: Psychology 1A-1B.

Recommended: Courses from the following fields according to the student's interest: physics, chemistry, zoology, physiology, anthropology, sociology, economics, history, mathematics, philosophy, language, humanities.

Recommended for students expecting to do graduate study: At least 18 units from anthropology or sociology, chemistry, physics, college algebra, zoology, physiology, or foreign language.

**PUBLIC SERVICE**—Business Administration 1A-1B; Economics 1A-1B; Political Science 1A-1B; Speech 1A-1B; Psychology 1A-1B; Geography 1, 2. Statistics 1 to be taken in the junior year.

**SPANISH**—Required: Spanish 1, 2, 3, 4 (or equivalent); English 1A-1B; A minimum of two years of a second foreign language in high school, or two semesters at the college level, or English 30AB, or History 8A-8B. Spanish 42 and 44 to be completed in the junior year.

**ZOOLOGY**—Required: Zoology 1A-1B; Chemistry 1A-1B; Physics 2A-2B.  
Recommended: French.



**MERCHANDISING**

Prepares for employment at the end of the Sophomore year.

**Freshman**

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Bus	80A	Business English .....	3	
Bus	80A	Business Correspondence ..		3
Bus	30AB	Business Law .....	3	3
Bus	71 or 72	Typing .....		3
Bus	16	Introduction to Business ....	2	
Bus	17	Business Management .....		2
Hist	17AB	History of the United States	3	3
Bus	50	Salesmanship .....	3	
P.E.	21	Health .....	2	
Bus	16	Business Mathematics .....		2
			17	17

**Sophomore**

Psych	9CD	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Econ	1AB	Principles of Economics .....	3	3
Psych	1A	Psychology .....	3	
Geog	1, 2	Physical and Cultural Geography .....	3	3
Bus	67AB	Bookkeeping .....	3	3
Bus	73	Office Machines .....	3	
Speech	1A	Speech .....		2
		Elective .....		3- 4
			16	15-16

**OFFICE MANAGEMENT**

Prepares for the sophomore year in the Department of Business Education at San Diego State College.

**Freshman**

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Bus	1AB	Elementary Accounting ....	3	3
Bus	71A	<sup>1</sup> Elementary Typewriting ....	3	
Econ	1AB	Principles of Economics ....	3	3
English	1A	Composition .....		3
P.E.	21	Health .....	2	
Speech	1A	Speech .....		2
		<sup>2</sup> Selected Science .....	3- 4	3- 4
			15-16	15-16

**Sophomore**

Psych	9CD	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity .....	1/2	1/2
Bus	30AB	Business Law .....	3	3
Bus	73	Office Machines .....	3	
Bus	80B	Business Correspondence ..		3
Hist	17AB	History of the United States	3	3
Psych	1A	General Psychology .....		3
		<sup>2</sup> Selected Science .....	3- 4	
		<sup>3</sup> Selected courses in Liter- ature, Art, Music, or Philosophy .....	3	3
			16-17	16

<sup>1</sup>—If the student has credit for one year of high school typewriting, he may substitute Business 71B. If he has credit for two years of high school typewriting, he may substitute Business 72 or an elective.

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

<sup>3</sup>—Six units are required in the field of the Arts, at least three of which must be in Literature or Philosophy.

**PHILOSOPHY**

Prepares for the junior year at San Diego State College.

**Freshman**

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Eng	1A	Composition .....	3	
		<sup>1</sup> Selected Social Science ....		3
		<sup>2</sup> Foreign Language .....	0- 4	0- 4
		<sup>3</sup> Elective .....	0- 4	0- 4
		<sup>4</sup> Selected Science .....	3- 4	3- 4
Hist	17AB	United States History .....	3	3
Speech	1A	Speech .....	2	
P.E.	21	Health .....		2
			16-17	16-17

**Sophomore**

Psych	9CD	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Phil	1AB	Introduction to Philosophy ..	3	3
Psych	1A	General Psychology .....	3	
		<sup>4</sup> Selected Science .....	3	
Eng	1B	Introduction to Literature ....		3
		<sup>2</sup> Foreign Language .....	0- 4	0- 4
		<sup>3</sup> Elective .....	0- 7	0-10
			15-17	15-17

NOTE: Philosophy 20, Logic, to be taken in the junior year.

<sup>1</sup>—Social Science may be selected from History, Sociology, Anthropology, Geography or Economics courses.

<sup>2</sup>—The major in Philosophy at San Diego State College requires 12 units (or equivalent) of a foreign language. French or German is strongly recommended.

<sup>3</sup>—Suggested electives: Speech 1B, English 15, Psychology 1B, Art, Music, Literature.

<sup>4</sup>—A total of at least 9 units of Science (including one physical and one biological science, and at least one unit of laboratory work) should be scheduled.

**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. Students who are interested in these professions should consult the teacher-counselor and plan with him a specific course of study that will meet the requirements of the school in which the student wishes to take his professional training.

**PSYCHOLOGY**

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

**Freshman**

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Anat	8	Human Anatomy .....	3	
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ....		3
Hist	17AB	United States History .....	3	3
P.E.	21	Health .....		2
Physiol	1	Physiology .....		4
Psych	1AB	General Psychology .....	3	3
Biol	3	<sup>2</sup> Biological Science .....	3	
			16	16

**Sophomore**

Psych	9CD	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Zoo	1AB	<sup>2</sup> General Zoology .....	4	4
		<sup>2</sup> Anthropology or Sociology .....	3	3
Phil	1AB	<sup>2</sup> Introduction to Philosophy.. Selected Music, Art, or Literature .....	3	3
Speech	1A	Speech .....		2
		<sup>3</sup> Elective .....	2- 3	3- 4
			16-17	16-17

<sup>1</sup>—Psychology 6 to be completed in sophomore year.

<sup>2</sup>—Courses that are highly recommended by San Diego State College in preparation for the major in Psychology.

<sup>3</sup>—Suggested electives: Speech 1B, English 15, Music, Art, Chemistry, Physics.

## PHYSICS

Prepares for the sophomore year at San Diego State College.

## Freshman

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ....		3
French		<sup>1</sup> Selected French Course .....	0- 4	0- 4
		<sup>2</sup> Elective .....	0- 4	0- 4
Physics	2AB	General Physics .....	4	4
Math	3AB	<sup>3</sup> Analytic Geometry and Calculus .....	3	3
Speech	1A	Speech .....	2	
P.E.	21	Health .....		2
			16-17	16-17

## Sophomore

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Hist	17AB	United States History .....	3	3
Chem	1AB	General Inorganic Chemistry .....	4	4
		<sup>4</sup> Selected Social Science .....	3	
		<sup>5</sup> Selected Biological Science		3
Psych	1AB	General Psychology .....	3	3
		<sup>6</sup> Art, Music, Literature or Philosophy .....	1½-2	1½-2
			16½-17	16½-17

<sup>1</sup>—A reading knowledge of French or German is highly recommended in the prerequisites listed for upper division work leading to the AB degree with the major in Physics. It is not listed in the recommended courses for the BS degree.

<sup>2</sup>—If French is not included in the student's course, it is suggested that the Science or History courses listed in the sophomore program be taken during the freshman year so that an additional mathematics course can be completed in the sophomore year.

<sup>3</sup>—Prerequisites should be checked and a substitution of course made if necessary. Mathematics 3AB, 51, and 52 (Differential and Integral Calculus) are required courses. The latter may be taken in the junior year if necessary. The AB degree requires a minor (12 units) in mathematics.

<sup>4</sup>—Social Science to be chosen from Anthropology, Economics, Geography, History or Sociology.

<sup>5</sup>—Biological Science to be chosen from Anatomy, Biology, Physiology, or Zoology.

<sup>6</sup>—Three units are needed to complete the fine arts requirements.

## POLICE SCIENCE

Prepares for employment at the end of two years.

## Freshman

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Eng		<sup>1</sup> English Sequence .....	3	3
Police	XA-XB	Peace Officers' Basic Training .....	3	3
Police	1	Survey of Law Enforcement	3	
Police	2	Police Patrol Procedures ....		3
Police	3	Criminal Law .....	3	
Police	5	Criminal Evidence .....		3
		<sup>2</sup> Minor electives .....	3	3
			16	16

## Sophomore

Psych	9CD	Guidance Workshop .....	½	½
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
Police	4	Criminal Investigation .....	3	
Police	6	Criminal Procedures .....		3
Police	7	Juvenile Court .....	2	
		<sup>2</sup> Minor elective .....		3
		<sup>3</sup> Electives .....	4- 6	4- 6
			15-17	15-18

<sup>1</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>2</sup>—A minor, which consists of nine units from a single field, is required for graduation.

<sup>3</sup>—Suggested electives: Sociology 1A-1B, Psychology 1A-1B, Business 30A-30B, Speech 1B, Political Science 1A-1B.

ROMANCE LANGUAGES

Prepares for the junior year at San Diego State College.

Freshman

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Spanish	1,2	<sup>1</sup> Elementary Spanish .....	0- 4	0- 4
French	1,2	<sup>1</sup> Elementary French .....	0- 4	0- 4
Hist		<sup>2</sup> Selected History Course ....	3	3
English	1A	Composition .....	3	
Eng	1B	Introduction to Literature ..		3
P.E.	21	Health .....	2	
Speech	1A	Speech .....		2
		<sup>3</sup> Selected Science Course ..	3- 4	3- 4
Not to exceed			18	18

Sophomore

Psych	9AB	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Spanish	3,4	<sup>1</sup> Intermediate Spanish .....	0- 4	0- 4
French	3,4	<sup>1</sup> Intermediate French .....	0- 4	0- 4
Hist	17AB	United States History .....	3	3
		<sup>3</sup> Selected Science Course ....		3- 4
		Selected Music, Art, Literature .....	3	
Psych	1A	General Psychology .....	3	
		<sup>4</sup> Electives .....	0- 4	0- 4
Not to exceed			18	18

<sup>1</sup>—Two years of one foreign language in high school may be counted, for purposes of placement only, as the equivalent of four units in the same language in college. Three years in high school may be counted as the equivalent of eight units in college; and four years in high school the equivalent of 12 units in college. The last year-course taken by a student in high school foreign language sequence may be repeated in college for graduation credit, not to exceed four units of repeated foreign language work." (SDSC Catalog page 253)

<sup>2</sup>—History 4AB should be taken by those students who expect to specialize in French in upper division, and History 8AB should be taken by those who expect to specialize in Spanish.

<sup>3</sup>—A total of at least 9 units of Science (including one physical and one biological science, and at least one unit of laboratory work) should be scheduled.

<sup>4</sup>—Suggested electives: Speech 1B, Psychology 1B, English 15, Art, Music, History.

SECRETARIAL

Prepares for employment at the end of the Sophomore year.

Freshman

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Bus	80A	Business English .....	3	
Bus	80B	Business Correspondence ..		3
Bus	71	Elementary Typing .....	3	
Bus	72	Advanced Typing .....		3
Bus	75AB	Shorthand .....	3	3
Bus	67AB	Bookkeeping .....	3	3
Bus	16	Introduction to Business ....	2	
Bus	17	Business Management .....		2
Bus	61	Business Mathematics .....	2	
		<sup>1</sup> Elective .....		2
Not to exceed			17	17

Sophomore

Psych	9CD	Guidance Workshop .....	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Bus	30AB	Business Law .....	3	3
Bus	76	Advanced Shorthand .....	3	
P.E.	21	Health .....		2
Hist	17AB	United States History .....	3	3
Speech	1AB	Speech .....	2	2
		<sup>2</sup> Selected Social Science Course .....	3	
		<sup>1</sup> Electives .....	0- 2	4- 6
Not to exceed			15-17	15-17

<sup>1</sup>—Suggested Electives: English 15, Business 51, 52, Music, Art, completion of year course in Social Science selected under <sup>2</sup>.

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

## SECRETARIAL MANAGEMENT

Prepares for the sophomore year in the Department of Business Education at San Diego State College.

## Freshman

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity .....	½	½
Bus	1AB	Elementary Accounting ....	3	3
Bus	72	Advanced Typewriting .....	3	
Bus	75AB	Shorthand .....	3	3
Econ	1AB	Principles of Economics ....	3	3
English	1A	Composition .....		3
P.E.	21	Health .....		2
		<sup>1</sup> Selected Science Course ..	3- 4	3
			16-17	18

## Sophomore

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity .....	½	½
Bus	30AB	Business Law .....	3	3
Bus	73	Office Machines .....	3	
Speech	1A	Speech .....	2	
Bus	80B	Business Correspondence ..	3	
Hist	17AB	History of the United States ..	3	3
Psych	1A	General Psychology .....		3
		<sup>1</sup> Selected Science Course ..		3- 4
		<sup>2</sup> Selected courses in Literature, Music, Art, or Philosophy .....		
			18	16-17

<sup>1</sup>—A total of at least 9 units of Science (including one physical and one biological science, and at least one unit of laboratory work) should be scheduled.

<sup>2</sup>—Six units are required for the B.S. degree in the field of the Arts, at least three of which must be in Literature or Philosophy. Note: If the student wishes to postpone the completion of this General Education requirement in the Arts until the junior year, it is suggested that he substitute Business 76 (Advanced Shorthand), and Business 79 (Secretarial Office Practice), in the sophomore year.

## SOCIAL SCIENCE

Prepares for the junior year at San Diego State College.

## Freshman

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity .....	½	½
Hist	17AB	United States History .....	3	3
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ....		3
P.E.	21	Health .....	2	
Speech	1A	Speech .....		2
		<sup>1</sup> Selected Social Science ....	3	3
		<sup>2</sup> Selected Science .....	3- 4	3- 4
		<sup>3</sup> Electives .....	0- 2	0- 2
			15-17	15-17

## Sophomore

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity .....	½	½
Psych	1A	General Psychology .....	3	
		<sup>1</sup> Selected Social Science .....	3	3
		Selected Music, Art, Literature or Philosophy .....		3
		<sup>2</sup> Selected Science .....	3- 4	
		<sup>3</sup> Electives .....	5- 6	8- 10
			15-17	15-17

<sup>1</sup>—The Social Science major requires three 6 unit courses chosen from Anthropology, Economics, Geography, History, Political Science or Sociology.

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

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

**SOCIOLOGY**

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

**Freshman**

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ....		3
Socio	1AB	Principles of Sociology .....	3	3
Hist	17AB	United States History .....	3	3
		<sup>1</sup> Selected Biological Science	3- 4	3- 4
		<sup>2</sup> Elective in Minor Field .....	3	3
			<u>16-17</u>	<u>16-17</u>

**Sophomore**

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Psych	1A	General Psychology .....	3	
Anthro	1AB	Physical and Cultural Anthropology .....	3	3
Geog	1, 2	Physical and Historical Geography .....	3	3
Speech	1A	Speech .....	2	
P.E.	21	Health .....		2
		Selected Music, Art, Litera- ture, or Philosophy .....	3	
		<sup>3</sup> Elective .....	0- 2	6- 8
			<u>17</u>	<u>15-17</u>

<sup>1</sup>—A laboratory course chosen from Anatomy 21, Biological Science 3, Physiology 1, or Zoology 1A.

<sup>2</sup>—A minor is required of students majoring in Sociology. Prerequisites should be scheduled in the freshman and sophomore years.

<sup>3</sup>—Suggested electives: Speech 1B, Psychology 1B, additional courses in the minor field, English 15, Business 71, Art, Music.

**SPANISH**

Prepares for the junior year at San Diego State College.

**Freshman**

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Spanish		<sup>1</sup> Spanish .....	4	4
French		<sup>1</sup> French .....	4	4
Hist	17AB	History of the United States	3	3
		<sup>2</sup> Selected Science Course ....		3
Eng	1A	Composition .....	3	
Eng	1B	Introduction to Literature ....		3
Speech	1A	Speech .....	2	
			<u>17</u>	<u>18</u>

**Sophomore**

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Spanish		<sup>1</sup> Spanish .....	4	4
Psych	1A	General Psychology .....	3	
Hist	4AB	History of Western Civilization .....	3	3
		<sup>2</sup> Selected Science Course ....	3- 4	3- 4
		Selected Literature, Music, Art, or Philosophy .....		3
P.E.	21	Health .....	2	
		Elective .....		1- 3
			<u>16-17</u>	<u>15-18</u>

<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>—A total of 9 units of Science (including at least one physical and one biological science, and at least one unit of laboratory) is required.

VOCATIONAL WORK STUDY

Freshman

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Eng		<sup>1</sup> English Sequence .....	3	3
P.E.	21	Health .....	2	
		<sup>2</sup> Selected Courses .....	2-10	4-12
		Vocational Work-Study .....	1- 4	1- 4
		Not to exceed	18	18

Sophomore

Psych	9CD	Guidance Workshop .....	½	½
P.E.		Physical Education Activity	½	½
Hist	17AB	United States History .....	3	3
		<sup>2</sup> Selected Courses .....	4-12	4-12
		Vocational Work-Study .....	1- 4	1- 4
		Not to exceed	18	18

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

1. English 1A-1B
2. English 51A-51B
3. Business 80A-80B
4. English 1A plus 3 units from English 15, English 80B, English 56A-56B, Journalism or Speech.

<sup>2</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 throughout the period of September to June is designated **Yr.** A course designated by a double number (for example, English 30A-30B) 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 students 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 (SDSC), the University of California at Los Angeles (UCLA), the University of California at Davis (Davis), and the California State Polytechnic College at the Kellogg-Voorhis Campus (K-V), and the San Luis Obispo Campus (SLO).

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.

**1 Introduction to Agricultural Business (3) I**

The field and scope of agricultural business including fundamental concepts, tools and practices. Parallels Cal Poly Agriculture Business Management 101 (K-V and SLO).

**11A-11B Truck Crops (4-4) Yr.**

**11AE-11BE Truck Crops (Extended Day) (3-3) Yr.**

Lecture and laboratory. Principles involved in seasonal truck crop production, including the scope, value, harvesting, packaging and marketing of the major truck crops grown in California. Parallels Cal Poly Truck Crops 225-225 (K-V) and Truck Crops 125-126 (SLO).

**12 Forage Crops (4) II** (Not offered 1961-1962)

Prerequisite: Botany 1A. Lecture and laboratory. Production, harvesting and utilization of the principal California forage crops. Identification and utilization of range plants. Crop ecological principles as applied to the establishment and management of such forages as irrigated pasture, hay, range, and silage. Aspects of forage quality which affect the value of livestock. Multiple use capabilities of grassland. Parallels Cal Poly Crop Production 123 (K-V and SLO).

**13 Weeds and Poisonous Plants (2) I**

Lecture and laboratory. 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. Parallels Cal Poly Crop Production 133 (K-V) and Crop Production 221 (SLO).

**14 Pest Controls (3) I** (Not offered 1961-1962)

Lecture and laboratory. Symptoms, identification, and methods of control of the principle diseases and pests of field, truck, fruit, and nursery crops. Field practice in operation of spray equipment and dust machines. Methods of combating disease, insect pests, and rodents attacking important California crop plants. Sprays, dusts, fumigants, poisons, cultural and sanitary controls.

**20 Introduction to Animal Husbandry (4) I**

Lecture and laboratory. A survey of the sources of the world's supply of animal products. The distribution of, and factor 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.

**21 Feeds and Feeding (4) II**

Lecture and laboratory. 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. Parallels Cal Poly Animal Husbandry 101, 102 (K-V and SLO).

**22 Livestock Judging (2) II**

Prerequisites: Sophomore standing or permission of the instructor. 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 bases for the criteria used in establishing these standards. Correlation of the type of the live animal with the quality of the carcass. Parallels Cal Poly Animal Husbandry 326 (K-V and SLO).

**23 Beef Production (3) II** (Not offered 1961-1962)

Prerequisite: 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. Parallels Cal Poly Animal Husbandry 131 (K-V) and Animal Husbandry 121 (SLO).

**24 Sheep Production (3) I** (Not offered 1961-1962)

Prerequisite: Agriculture 21. Sheep operations in the United States. Emphasis on breeds and adaptation to California conditions. Principles of selecting, culling, and judging sheep. Market classes and marketing of sheep. Home slaughter and carcass cuts. Factors affecting wool value. Parallels Cal Poly Animal Husbandry 123 (K-V and SLO).

**30 Agricultural Mechanics (4) I** (Not offered 1961-1962)

Lecture and laboratory. 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; acetylene and arc welding. Parallels Agricultural Engineering 121, 122, 123 (K-V) and Agriculture Engineering 121, 122 (SLO).

**31 Farm Machinery (2) II** (Not offered 1961-1962)

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. Parallels Cal Poly Agriculture Engineering 221 (K-V and SLO).



- 32 Irrigation and Drainage (4) I** (Not offered 1961-1962)  
Prerequisites: Agriculture 40 and Engineering 28. Lecture and laboratory. 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 management. Drainage principles and methods including investigation of drainage problems. Types of drainage systems and layout of farm drains, and drainage requirements for land reclamation and irrigated agriculture. Parallels Cal Poly Agriculture Engineering 240 (K-V and SLO).
- 33 Farm Tractors (2) II** (Not offered 1961-1962)  
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. Parallels Cal Poly Agriculture Engineering 241 (K-V and SLO).
- 40 Soils and Soil Management (4) II** (Not offered 1961-1962)  
Lecture and laboratory. Physical, chemical and biological properties of soils as related to agriculture. Elementary principles of soil-plant interrelations; development of the soil as a natural body; soil moisture; effect of management practices on soil properties; composition and use of fertilizers. Parallels Cal Poly Soil Science 121 (K-V and SLO).
- 41 Fertilizers (4) I**  
Prerequisite: Agriculture 40 or permission of the instructor. Lecture and laboratory. 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. Parallels Cal Poly Soil Science 221 (K-V and SLO).

**ANATOMY**

- 8 Human Anatomy (3) II**  
Two hours lecture, six hours laboratory. Prerequisite: An introductory course in high school or college biology or zoology or permission of the instructor. Systems of the human body and their interrelationships. Parallels SDSC Zoology 8.

**ANTHROPOLOGY**

- 1 Physical Anthropology (3) I**  
Man's biological heritage; fossil evidences of early man; theories of human development; racial variability. Parallels SDSC Anthropology 1, and UCLA Anthropology 1.
- 2 Cultural Anthropology (3) II**  
Social institutions in primitive and civilized societies; races; rise of political institutions; growth of native civilizations; material culture; social organization; religion; language. May be taken before Anthropology 1A. Parallels SDSC Anthropology 2, and UCLA Anthropology 2.

**ART**

- ✓ **1A Beginning Drawing and Painting (2) I**  
No prerequisite. Problems involving perspective and the ability to draw and paint still life and other subject materials. Parallels SDSC Art A.
- ✓ **1B Beginning Drawing and Painting (2) II**  
Prerequisite: Art 1A or permission of the instructor. Problems involving drawing and painting natural forms: Landscapes, animals and human figures. Parallels SDSC Art B.
- 7 Fundamentals of Art (2) I**  
No prerequisite. A study of the principles of art including balance, harmony, rhythm, and arrangement; the elements of art including line, form, color, light and dark, and texture.
- 9 Basic Design (3) I**  
No prerequisite. A functional course in design introducing students to the aesthetic use of color and spacing and including those special skills and the handling of those materials required for teaching in the elementary schools. Parallels SDSC Art 9.
- 10 Basic Crafts (3) II**  
Prerequisite: Art 9. A basic craft course approached from the creative viewpoint and including the techniques, materials and tools appropriate for the elementary grades. Parallels SDSC Art 10.
- 50 History and Appreciation of Art (2) I, II**  
Two lectures. No prerequisite. A survey of art development in painting, sculpture, architecture, and handicrafts from the dawn of art to the Renaissance. Parallels SDSC Art 50.

**ASTRONOMY**

- 1 Elementary Astronomy (3)** (Not offered 1961-1962)  
 An introductory survey course in the general principles and the fundamentals of astronomy with emphasis on the solar system. Parallels SDSC Astronomy 1 and UCLA Astronomy 1.

**BIOLOGICAL SCIENCE**

See individual listings of courses under headings of ANATOMY, BIOLOGY, BOTANY, PHYSIOLOGY, and ZOOLOGY.

**BIOLOGY**

- 3 Introduction to Biological Science (3) I, II**  
 Two hours lecture, three hours laboratory. 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 general science. Parallels SDSC Biology 3.

**BOTANY**

- 1A-1B General Botany (4-4) Yr.**  
 Two hours lecture, six hours laboratory. An introduction to the various fields of plant science, including anatomy, morphology, physiology, and genetics. Parallels Cal Poly Botany 121, 122 (K-V and SLO), Davis Botany 1 (5).

**BUSINESS**

- 1A-1B Principles of Accounting (3-3) Yr.**  
 Four hours of lecture and laboratory. Introduction to the theory, practice, and principles of accounting as they relate to single proprietorship, partnership, and corporate types of business enterprises. Parallels SDSC Business Administration 1A-1B, and UCLA Business Administration 1A-1B.
- 2 Mathematics of Finance (3) II**  
 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. Parallels SDSC Business Administration 2.

- 16 Introduction to Business (2) I**  
 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.
- 17 Business Management (2) II**  
 A study of the organizing and merchandising problems of a business; financial problems; business management.
- 21 Real Estate Principles (3) I**  
 An analysis of the basic elements which guide policy in the real estate field; principles of marketing, developing, financing, appraising, managing and sub-dividing urban property; major influences affecting city locations and growth.
- 22 Real Estate Practices (3) II**  
 An analysis of the problems related to the establishing and conducting of a real estate business; the establishing of the office, securing listings and prospects; showing properties; closing sales; financing; property management, rentals and leases; appraising, and the California Real Estate Act.
- 27 Introduction to Advertising (3) II**  
 A study of advertising and its effects on the entire channel of distribution. The preparation of advertisements, their effectiveness, and the use of the various media. Advertising campaigns and public relations.
- 29 Principles of Marketing (3) I**  
 A study of the functions of marketing from the producer to the consumer; includes a study of pricing policies and governmental regulations.
- 30A-30B Business Law (3-3) Yr.**  
 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. Parallels SDSC Business Administration 30A-30B.
- 34 Retailing (3) II**  
 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.
- 36 Personal Finance (3) I**  
 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.

- 41 Insurance (3)** (Not offered 1961-1962)  
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.
- 50 Salesmanship (3) I**  
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. Parallels SDSC Business Administration 50.
- 51 Income Tax (2) I**  
An elementary course in computation of income tax, use of forms and some of the less complex computations. Tax regulations are studied and students are taught to prepare returns.
- 52 Investments (2) II**  
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.
- 61 Business Mathematics (2) I, II**  
Review of the fundamentals of arithmetic, compound interest, installment payments, graphs, statistics, depreciation, annuities and insurance.
- 77A-77B Elementary Bookkeeping (3-3) Yr.**  
A course designed to meet the needs of practical bookkeeping in single proprietorship, partnership, and corporation. Work is given in journalizing, posting, trial balance and preparation of financial reports. Preparation of the payroll and other practical work is included. Not open to students with credit in high school bookkeeping.
- 71A Elementary Typewriting (3) I, II**  
**71AE Elementary Typewriting (Extended Day) (2) I, II**  
Day class offers five hours and evening class three hours of lecture and activity in the fundamentals of typewriting. Elementary Typewriting 71A parallels SDSC Business Administration 71.
- 71B Intermediate Typewriting (3) I, II**  
**71BE Intermediate Typewriting (Extended Day) (2) II**  
Prerequisite: One year of high school typewriting or ability to type 30 words per minute. Day class offers five hours and evening class three hours of lecture and activity in touch typewriting. Emphasis is placed on business letter forms, tabulation, and manuscript typewriting.

- 72 Advanced Typewriting (3) I, II**  
**72E Advanced Typewriting (Extended Day) (2) I, II**  
Prerequisite: Business 71B or 71BE, two years of high school typing, or permission of the instructor. An advanced course in typing for those students who wish to increase their speed and accuracy in office work. The course includes various types of business letter writing, legal forms, and typing from manuscripts. Business 72 parallels SDSC Business Administration 72.
- 73 Office Machines (3) I, II**  
The operation of machines used in the business office. Includes drills and problems emphasizing accurate and rapid operation. Parallels SDSC Business Administration 73 (1-3).
- 75A Elementary Shorthand (3) I**  
**75AE Elementary Shorthand (Extended Day) (2) I**  
A beginning course in Gregg Shorthand. Day class offers five hours and evening class three hours of theory and dictation practice for students who have had no previous training. Elementary Shorthand 75A parallels SDSC Business Administration 75A.
- 75B Intermediate Shorthand (3) II**  
**75BE Intermediate Shorthand (Extended Day) (2) II**  
Prerequisite: Business 75A or 75AE or permission of the instructor. Day class offers five hours and evening class three hours of review of Gregg Shorthand theory, with emphasis on speed building. Intermediate Shorthand 75B parallels SDSC Business Administration 75B.
- 76A Advanced Shorthand (3) I**  
Prerequisites: Business 75B, and net typing speed of at least 35 words per minute, or permission of the instructor. Five hours of intensive speed building to enable students to meet commercial standards. Parallels SDSC Business Administration 76.
- 76B Advanced Dictation and Transcription (3) II**  
Prerequisite: Business 76A. Five hours of Gregg Shorthand dictation and typewriter transcription.
- 77 Secretarial Office Practice (3) II**  
Prerequisite: Business 72 and 76A, or permission of the instructor. Five hours of integration of office type skills into a final course. Prepares students for production output and standards required by most offices. Covers the scope of secretarial and clerical office duties; the qualifications of

the secretary and general office worker as regards education, training, and personal aptitudes; dress and appearance; business ethics and etiquette; procuring a position; and practical experience through work in a model office.

#### 80A Business English (3) I

Thorough training in the mechanics of English: spelling, punctuation, sentence structure, work usage, modern business vocabulary. Effective development of the English communication skills necessary for the production of accurate and mailable business letters.

#### 80B Business Correspondence (3) II

Prerequisite: Business 80A or equivalent, Business 71 or equivalent. Designed to achieve effective written communication in the field of business. Emphasizes letter form and style, the psychology of the sales letter, letters of complaint and adjustment, credit and collection, job application, and the business report.

### CHEMISTRY

#### 1A-1B General Inorganic Chemistry (5-5) Yr.

Three hours lecture, six hours laboratory. Prerequisites: Elementary algebra and plane geometry. Recommended: High school chemistry or Chemistry 2, physics, and additional mathematics. General principles of chemistry with emphasis on inorganic materials. Qualitative analysis is included in the second semester. Parallels SDSC Chemistry 1A-1B, Davis Chemistry 1A-1B.

#### 2 Introduction to Chemistry (4) (Not offered 1961-1962)

Three hours lecture, three hours laboratory. A general course, including inorganic and organic chemistry, for students not intending to take further work in chemistry, or for those who need a background for Chemistry 1A.

### ECONOMICS

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

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. Parallels SDSC Economics 1A-1B, UCLA Economics 1A-1B, and Davis Economics 1A-1B.

### EDUCATION

#### 10 Introduction to Education (2) I, II

An orientation course for prospective teachers. Survey of teaching needs, methods and procedures; control and organization of education; financing; requirements for teaching; teacher placement and opportunities; curriculum, guidance and school materials. Classroom discussion and problems are combined with field work and observations of actual teaching situations.

### ENGINEERING

#### 1 Mechanical Drawing (3) I, II

A general course for students who have had no high school mechanical drawing. Proper use of drafting instruments, geometric constructions, lettering, orthographic projections, blue printing, pictorial representations, isometric drawings, dimensions, and symbols. Parallels Cal Poly Mechanical Engineering 121 (K-V).

#### 2 Engineering Drawing (3) I, II

Lecture and laboratory. Prerequisite: Engineering 1 or permission of the instructor. Geometric construction, sketching, dimensioning, theory of orthogonal projections, Auxiliaries, sectioning, tolerance, piping, structural design, and simple working drawings.

#### 10 Engineering and Technical Problems (3) I, II

Prerequisite: Two years of high school algebra or Mathematics 1 or Engineering 9 or permission of the instructor. An applied course in geometry, algebra, and trigonometry with applications to problems in engineering.

#### 21 Descriptive Geometry (3) II

Lecture and laboratory. Prerequisite: Engineering 2. An advanced course in drawing: three dimensional location of points, lines, and planes; surface and intersection problems with engineering applications and vector geometry. Parallels Cal Poly Mechanical Engineering 125 (K-V and SLO).

#### 23 Engineering Processes (3) (Not offered 1961-1962)

Lecture and laboratory. Analysis of the various tools and processes utilized in modern manufacturing and fabrication operations. Parallels SDSC Engineering 23.

#### 28 Plane Surveying (3) I, II

Lecture and laboratory. Prerequisite: Mathematics 9 or permission of the instructor. Principles of surveying, use of surveying instruments in the field, calculations, mapping, and plotting.

## ENGLISH

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

Prerequisite: Satisfactory grade on English Placement Test, English 51A with a grade of A or B, or English 51A-51B. An introductory course in clear and effective written communication. Parallels SDSC English 1, UCLA English 1A, Cal Poly English 1, and Davis English 1A.

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

Prerequisite: English 1A. Introduction to the types of literature; training in reading literary materials with insight and application to life; continuation of the training in expository writing begun in English 1A. Parallels SDSC English 2, UCLA English 1B, Cal Poly English 1B, and Davis English 1B.

**10 Reading Improvement (2) I, II**

A course designed for those who wish to increase reading speed and comprehension. The use of mechanical reading devices to increase speed.

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

Designed to widen the student's command of words for writing, reading, and speaking; an extensive study of word origins, meanings, and special uses; includes a limited study of roots, stems, prefixes and suffixes.

**30A-30B American Literature (3-3) Yr. (Not offered 1961-1962)**

A study of the works of the major American writers in relation to literary, political, social, and religious movements. English 30B may be taken before English 30A. Parallels SRSC English 50A-50B, and UCLA English 30A-30B.

**31 Creative Writing (2) I, II**

Concentrated exercises in the writing of imaginative literature with emphasis on the short story and poetry.

**51A English Fundamentals I, II**

Grammar, diction, punctuation, spelling and sentence structure. Designed for those students who wish a thorough review of the fundamentals of grammar in preparation for English 1A.

**51B English Fundamentals I, II**

Prerequisite: English 51A or permission of the instructor. Writing and vocabulary with special attention to paragraph development, composition of paragraphs, and transitions between paragraphs. Designed for students preparing for English 1A or for those who wish a review of the fundamentals of writing.

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

(Not offered 1961-1962)

Prerequisite: English 1B or permission of the instructor. Close study of typical works of major authors from Chaucer to T. S. Eliot, with consideration of the more important aspects of English literary history. English 56B may be taken before English 56A. Parallels SDSC English 56A-56B, and UCLA English 46A-46B.

**60 Writing Laboratory (0) I, II**

Semi-tutorial instruction to a limited number of students who wish to improve their writing skill; open to both remedial and advanced students.

**051 English Review (3) I**

A remedial course designed especially for those who wish a review of basic English. Includes fundamentals of grammar, punctuation, spelling, and an introduction to the fundamentals of clear writing.

## FRENCH

**1 Elementary French (4) I**

Meets five hours weekly. Pronunciation, oral practice, study of French culture and civilization, and basic grammar of the French language. Parallels UCLA French 1.

**2 Elementary French (4) II**

Meets five hours weekly. Prerequisite: French 1 or two years of high school French. Continuation of French 1. Parallels UCLA French 2.

**3 Intermediate French (4) I**

Meets five hours weekly. Prerequisite: French 2 or three years of high school French. Continuation of French 2. Parallels UCLA French 3.

**4 Intermediate French (4) II**

Meets five hours weekly. Prerequisite: French 3 or four years of high school French. Continuation of French 3. Parallels UCLA French 4.

## GEOGRAPHY

**1 Physical Geography (3) I**

World patterns of climate, vegetation, soils, lithic regions, and terrain with emphasis on the basic factors affecting the distribution of these patterns. Parallels SDSC Geography 1, and UCLA Geography 1A.

**2 Cultural Geography (3) II**

Stresses the major regions of the earth and their population, including their chief cultural characteristics such as language, religion, ethnic background, economy and institutions. The interrelationships between cultural conditions and physical controls is emphasized. Geography 2 may be taken before Geography 1. Parallels SDSC Geography 2, and UCLA Geography 1B.

**GEOLOGY****1A Physical Geology (4) I**

Three hours lecture, three hours laboratory with related field study during the semester. Features the earth's surface with emphasis on the geologic processes involved in their origin and development; laboratory exercises in the identification of minerals and rocks, and in the reading and interpretation of topographic and geologic maps. Parallels SDSC Geology 1A, UCLA Geology 2, Davis Geology 1 (3).

**1B Historical Geology (4) II**

Three hours lecture, three hours laboratory with related field study. Geologic history of the earth and the development of plant and animal life as traced through rock and fossil records. Laboratory exercises in the identification of fossils with consideration of paleontologic and stratigraphic principles. Parallels SDSC Geology 1B and UCLA Geology 3.

**HISTORY****4A-4B History of Western Civilization (3-3) Yr.**

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. Parallels SDSC History 4A-4B, and UCLA History 1A-1B.

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

(Not offered 1961-1962)

Survey of the history of the western hemisphere with primary concentration on the study of the Latin American countries. Attention is given to the explanation, settlement,

colonial growth, imperial rivalries, and the achievement of independence. Includes the evolution of the American nations and people in the nineteenth and twentieth centuries. Parallels SDSC History 8A-8B, and UCLA History 8A-8B.

**10A-10B History of Russia (3-3) Yr.**

A survey of the political, social, diplomatic, and economic history of Russia. The first semester deals with the history of Russia through the revolutionary period. The second semester studies the Soviet Union since the Revolution.

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

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 the 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. Parallels SDSC History 17A-17B, UCLA History 7A-7B, Cal Poly History 301, 302, 303 (K-V and SLO), and Davis History 17A-17B.

**053 American Problems (3) II**

A course designed especially for the adult who wishes to make up deficiencies for the high school diploma. Reviews basic history of the United States, government, and present day American problems.

**HUMANITIES****1A-1B Introduction to the Humanities (3-3) Yr.**

The most significant aspects of the arts through the ages, from primitive art to modern mass communication. A nontechnical presentation for the general student which is designed to acquaint the student with our western cultural heritage and the values it can contribute to his personal life. Parallels UCLA Integrated Arts 1A-1B.

**JOURNALISM****83A-83B Yearbook Workshop (2) I, II**

2 hours lecture, and 3 hours laboratory to be arranged. Prerequisite: Permission of the instructor. Special work in journalism in connection with the school yearbook. Includes layout, editing, photography, business management, and advertising. Parallels SDSC Journalism 92 (1-3).

**93A-93B Publications Workshop (2) I, II**

2 hours lecture, and 3 hours laboratory to be arranged. Prerequisite: Permission of the instructor. Special work in journalism in connection with the school newspaper. Includes reporting, editing, business management, photography, and advertising. Parallels SDSC Journalism 93 (1-3).

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

Prerequisites: Mathematics X and Y, or equivalent. Reviews basic algebra, then continues into more difficult types of factoring, solutions of equations, radicals, exponents, complex numbers, binomial expansion, arithmetic and geometric progressions, logarithms, and conic sections. Emphasis also is placed on the application of algebra in solving problems and to graphing. Not open for credit to students who received high school credit for two years of algebra.

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

Prerequisites: Plane geometry and one-and-a-half years of high school algebra or college algebra. Plane trigonometry, with special emphasis on trigonometric analysis, applications, solving trigonometric equations, and graphing. Open to students with credit in high school trigonometry. Parallels SDSC Mathematics 4 (2) and UCLA Mathematics C.

**X Beginning Algebra (3) I**

Fundamentals of elementary algebra including radicals, exponents, graphing, linear and quadratic equations, ratio and proportion. Parallels SDSC Mathematics 1.

**Y Plane Geometry (3) I**

Prerequisite: Algebra X or its equivalent. Algebra X may be taken concurrently. An accelerated course for those who do not have high school credit in geometry, or those who need extensive review of basic geometry as a preparation for advanced work in mathematics or science. Parallels SDSC Mathematics 2.

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

Prerequisites: Geometry, one-and-a-half years of high school algebra or equivalent (or permission of the instructor), and satisfactory score on the proficiency tests. Review of intermediate algebra plus determinants, theory of equations, conic sections, permutations and combinations, progressions, inequalities, complex numbers, and graphing.

**3A-3B Analytic Geometry and Calculus (4-4) Yr.**

Lecture and laboratory. Prerequisites: Two years high school algebra or Mathematics I, plane geometry, and plane trigonometry. Recommended: solid geometry. Combined course in analytic geometry and calculus studying basic principles of limits, differentials, derivatives and integration with application to practical problems. Conics as paths of moving points, the theory of determinants, angular velocity and acceleration, exponential and logarithmic functions, parametric equations, polar coordinates, vectors, formulas and methods of integration and their advanced applications. Parallels UCLA Mathematics 3A-3B (3-3), Cal Poly 118 and 201 (K-V and SLO), and Davis Mathematics 3A-3B.

**3AE-3BE Analytic Geometry and Calculus (3-3) Yr. (Extended Day)**

Prerequisites: Mathematics C and Mathematics I or the equivalent. Recommended: Solid geometry. First semester includes topics in analytic geometry and differentiation and integration of algebraic functions. Second semester includes definite integrals, conic coordinates, parametric equations, and integration by standard forms, parts, and other methods. Parallels UCLA Mathematics 3A-3B.

**6 Agricultural Mathematics (4) II**

Prerequisite: Satisfactory score on the placement test or Mathematics 10. Percentage; problems involving soil and irrigation, fertilizers, nutritive ratio, farm construction, farm mechanics; discounts and interest; equations, formulas; linear measurement, areas, volumes, and proportion. Use of exponents, logarithms and elementary slide rule; trigonometric functions, basic land descriptions, and elementary statistics with agricultural applications. Parallels Cal Poly Mathematics 102 and 103 (K-V and SLO).

**9 Technical Mathematics (3) I**

Fundamental arithmetical processes applied to shop and engineering problems; use of the slide rule.

**10 Mathematics for General Education (3) II**

Basic concepts of arithmetic, algebra, and geometry. Recommended for students of elementary education and students whose scores on the competency examination, while exempting them from Mathematics 51, indicate a need for further training in mathematics. Parallels SDSC Mathematics 10.

**51 Basic Mathematics (3) II**

Fundamentals of mathematics with applications to everyday problems. Required of all students failing the compe-

tency examination in mathematics. Not open for credit to students passing this examination. May not be used in the major or minor. Parallels SDSC Mathematics A.

**051 Arithmetic Review (3) I**

A remedial course designed for those who wish a review of the fundamentals of arithmetic. Includes the application of arithmetic to everyday problems.

**MUSIC**

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

Elementary music theory and skills including notation, meter, rhythm, scales, intervals, triads, sight singing, ear training, dictation, elementary keyboard facility and other fundamentals. Parallels SDSC Music 7A.

**7B Music Materials (3) II**

Study of all phases of elementary school music; singing, listening, reading, creative music, instruments, repertoire of songs and records, music projects. Parallels SDSC Music 7B, and UCLA Music 31.

**9A-9B Elementary Harmony (3-3) Yr.**

(Not offered 1961-1962.) Sight singing and ear training, keyboard harmony, study of traditional ditionicism, basic four-voice writing and analysis. Parallels SDSC Music 9A-9B.

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

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. Parallels SDSC Music 10A-10B, and UCLA Music 41.

**14 Conducting (2) I** (Not offered 1961-1962)

Principles and practice in those skills needed to direct choirs, youth groups, and musical organizations.

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

A study of the important composers and their works. Purpose of the course is to develop an understanding of various types of music from different eras as a medium of cultural development and as a background toward further musical study. Parallels UCLA Music 30A-30B.

**51 Vocal Music Workshop (2) II**

Prerequisite: Permission of the instructor. Designed to improve the singing voice through systematic study and practice. Presentation of a musical operetta or large choral work.

**62A-62B-62C-62D Mixed Chorus (1½-1½-1½-1½) I, II**

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.

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

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.

**55A-55B-55C-55D Band (1-1-1-1) I, II**

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

**PHILOSOPHY**

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

The place of philosophy in intelligent living. The methods, values, and areas of philosophical inquiry. The nature of philosophical inquiry as applied to problems of knowledge and reality. An attempt is made to provide the student with a critical technique for developing a well considered philosophy of his own. Parallels SDSC Philosophy 1A-1B, and UCLA Philosophy 6A-6B.

**PHYSICAL EDUCATION**

Physical Education activity courses are numbered 1-20. Unless excused (see page 32), each student should schedule one activity course each semester.

**10 Team Sports for Women (½) I, II**

**10 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.

**11 Archery (½) I, II**

Coeducational. An introduction to archery. The etiquette, rules, background, and techniques of archery. The class is designed to stimulate an interest in and an appreciation of archery.

**12 Combative Sports for Men (½) I, II**

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



- 13 Individual Sports for Women (½) I, II**  
**13 Individual Sports for Men (½) I, II**  
 An introduction to the events in track, field and tumbling. Includes the Iowa-Brace achievement tests.
- 14 Volleyball and Badminton (½) I, II**  
 Coeducational. The etiquette, rules, background, and techniques of playing badminton and volleyball.
- 15 Swimming and Golf (½) I, II**  
 Coeducational. Half of the semester is devoted to swimming with a study of water safety and aquatic first aid. Half of the semester is devoted to the game of golf with consideration of the basic fundamentals of strokes with irons, woods and putters, and a study of the rules and etiquette of the game.
- 16 Folk and Square Dancing (½) I, II**  
 Coeducational. Participation and instruction in basic fundamentals, forms, and patterns of folk and square dancing.
- 17 Weight Lifting for Men (½) I, II**  
 Basic fundamentals and theory of weight lifting with emphasis on motor skills.
- 21 Health Education (2) I, II**  
 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. Parallels SDSC Health Education 21, and UCLA Physical Education 44.
- 31 Football (1) I**  
 Theory and practice of competitive football. Limited to students trying out for varsity teams.
- 32 Basketball (1) I, II**  
 Theory and practice of basketball. Limited to students trying out for varsity team.
- 33 Track (1) II**  
 Theory and practice of track. Limited to students trying out for varsity team.
- 34 Baseball (1) II**  
 Theory and practice of baseball. Limited to students trying out for varsity team.
- 35 Wrestling (1) II**  
 Theory and practice of wrestling. Limited to students trying out for varsity team.

- 53 Elementary Games and Activities (2) I, II**  
 Three hours lecture and activity. Participation in physical education activities which are designed for the elementary school child; understanding of principles of movement in fundamental skills and their application. Parallels SDSC Physical Education 27A-27B.

## PHYSICAL SCIENCE

See individual listing of courses under headings of ASTRONOMY, CHEMISTRY, GEOGRAPHY, GEOLOGY, MATHEMATICS, and PHYSICS.

- 5 Introduction to Physical Science (3) II**  
 Two hours lecture, three hours laboratory. 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 general science. Parallels SDSC Physical Science 5.

## PHYSICS

- 2A-2B General Physics (4-4) Yr.**  
 Three hours lecture, three hours laboratory. Prerequisites: Algebra, geometry, trigonometry or permission of the instructor. Properties of matter, mechanics, heat, wave motion, sound, magnetism, light and atomic physics. Parallels SDSC Physics 2A-2B, 3A-3B; Davis Physics 2A-2B, 3A-3B.

## PHYSIOLOGY

- 1 Human Physiology (4) II (Not offered 1961-1962)**  
 Two hours lecture, six hours laboratory. The functions of the human body; emphasis on the circulatory, muscular, and nervous systems. Parallels SDSC Zoology 9, Davis Physiology 1 and 1L.

## POLICE SCIENCE

- XA-XB Peace Officers' Basic Training (3-3) Yr.**  
 (Not offered 1961-1962)  
 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 notetaking, laws of arrest, public relations, fire arms, defensive tactics, mechanics of arrest, panic control, rules of evidence and other material basic to proper law enforcement.

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

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.

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

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.

**3 Criminal law (3) I**

Elements of Criminal Law with definitions and general penalties; laws of arrest, search and seizure; rights and duties of officers and citizens.

**4 Criminal Investigation (3) I**

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.

**5 Criminal Evidence (3) II**

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

**6 Criminal Procedure (3) II**

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

**7 Juvenile Control (2) (Not offered 1961-1962)**

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

**POLITICAL SCIENCE**

**1A-1B Introduction to Government (3-3) Yr.**

Theories and principles of government with special attention to the problems created by modern industrialism and population pressures. A comparative survey of selected foreign governments, their constitutional principles, political institutions, and governmental problems. Parallels SDSC Political Science 1A-1B, and UCLA Political Science 1, 2.

**PSYCHOLOGY**

**1A General Psychology (3) I, II**

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. Parallels SDSC Psychology 1, UCLA Psychology 1A, Cal Poly Psychology 202 (K-V and SLO), and Davis Psychology 1A.

**1B General Psychology (3) I, II**

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. Parallels UCLA Psychology 1B.

**9A-9B-9C-9D Guidance Workshop (1/2-1/2-1/2-1/2) I, II**

Guidance in the selection and study of occupational goals, in the development of college study skills, and in personal adjustment. Course includes consideration of the occupational field of the student's choice; the development of college study skills including note-taking, library research methods, and reading improvement; personal adjustment and group participation; and field trips to observe and talk with people who are working in the occupations that are of special interest to the class members.

**SCIENCE**

Science courses are listed under individual subjects. See the following:

**Biological Science:** Anatomy, Biology, Botany, Physiology, Zoology

**Physical Science:** Astronomy, Chemistry, Geography, Geology, Mathematics, Physical Science, Physics

**Social Science:** Anthropology, Economics, Geography, History, Psychology, Sociology

**SOCIAL SCIENCE**

See individual listings of courses under headings of ANTHROPOLOGY, ECONOMICS, GEOGRAPHY, HISTORY, PSYCHOLOGY, SOCIOLOGY.

**SOCIOLOGY****1A Principles of Sociology (3) I**

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. Parallels SDSC Sociology 1, and UCLA Sociology 1.

**1B Contemporary Social Problems (3) II**

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. Parallels SDSC Sociology 10 and UCLA Sociology 2.

**061 Family Relationships (0) II**

A survey of family relationships. Includes an investigation of patterns of child development and growth, parents' feelings towards children's behavior, methods that will help the child make decisions and learn to accept responsibility, and, generally, what the child needs from the parents and what the parents may expect from the child. Also includes parent-parent relationships, the changing patterns of family living, parent conflict, and the role of the modern parent. This course carries no college credit.

**SPANISH****1 Elementary Spanish (4) I**

Meets five hours weekly. Pronunciation, oral practice, study of Spanish culture and civilization, and basic grammar of the Spanish language. Parallels UCLA Spanish 1.

**2 Elementary Spanish (4) II**

Meets five hours weekly. Prerequisite: Spanish 1 or two years of high school Spanish. Continuation of Spanish 1. Parallels UCLA Spanish 2.

**3 Intermediate Spanish (4) I**

Meets five hours weekly. Prerequisite: Spanish 2 or three years of high school Spanish. Continuation of Spanish 2. Parallels UCLA Spanish 3.

**4 Intermediate Spanish (4) II**

Meets five hours weekly. Prerequisite: Spanish 3 or four years of high school Spanish. Continuation of Spanish 3. Parallels UCLA Spanish 4.

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

A course designed to meet the needs of bi-lingual students. Emphasizes Spanish grammar and composition, and Spanish and South American literature.

**SPEECH****1A Elementary Speech (2) I, II**

Training in the fundamental processes of oral expression; the methods of obtaining and organizing material; practice in the construction and delivery of various forms of speeches. Parallels SDSC Speech 3, UCLA Speech 1, and Davis Speech 1A (3).

**1B Elementary Speech (2) II**

Prerequisite: Speech 1A. Continuation of Speech 1A, extemporaneous work, forum and panel discussions. Parallels SDSC Speech 4, UCLA Speech 2, and Davis Speech 1B (3).

**10 Fundamentals of Acting (3) I**

Lecture and laboratory. An introduction to the interpretation of drama through the art of the actor. Development of individual insights, skills, and disciplines in the presentation of dramatic material to an audience. Parallels SDSC Speech Arts 55A, and UCLA Speech Arts 20A.

**11 Drama Workshop (2) II**

Prerequisite: Speech 10 or permission of the instructor. Lecture and laboratory. Intensive application of acting techniques through study and performance of selected scenes from stage, motion picture, and television scripts, involving problems of style in a wide range of dramatic materials. Parallels SDSC Speech Arts 55B (3), and UCLA Theater Arts 20B.

**SUPERVISION****X Post Office Financial Management (3)**

(Not offered 1961-1962)  
Management responsibility for financial transactions and manpower control. Includes regional organization and responsibility for financial management, supervision of stamps, receipts, safeguarding postal funds, limitations on procurement and disbursements, cost control and related factors.

**19 Elements of Supervision (3) II**

The role of the supervisor in industry and business; the development of techniques in meeting administrative, organizational, labor, and human relations problems; the utilization of men, machines and materials; and case studies in supervisory problems.

**20 Human Relations for Supervisors (3) I**

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.

**21 Organization and Management (3) I**

(Not offered 1961-1962)

The supervisor's responsibility for planning, organizing, directing, controlling and coordinating activities in his area of responsibility. Basic functions of an organization; the role of the supervisor in carrying out these objectives in accordance with the organization's plans.

**22 Labor-Managements Relations (3) II**

(Not offered 1961-1962)

A study of the history and development of the Labor Movement. Development of the National Labor Relations Acts, the Wagner Act and the Taft-Hartley Act. The supervisor's responsibility, the union contract and grievance procedures.

**VOCATIONAL WORK-STUDY EDUCATION****51 Vocational Work-Study Education (1-4) I, II**

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 employer and student. 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****1A General Zoology (4) I**

Two hours lecture, six hours laboratory. 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. Parallels UCLA Zoology 1A, Cal Poly Zoology 131 (K-V and SLO), and Davis Zoology 1.

**1B General Zoology (4) II**

Two hours lecture, six hours laboratory. Prerequisite: Zoology 1A. Continuation of Zoology 1A with emphasis upon comparative anatomy and physiology, development of vertebrate forms and their inter-relationships. Parallels UCLA Zoology 1B, Cal Poly Zoology 132 (K-V and SLO), and Davis Zoology 1B.

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