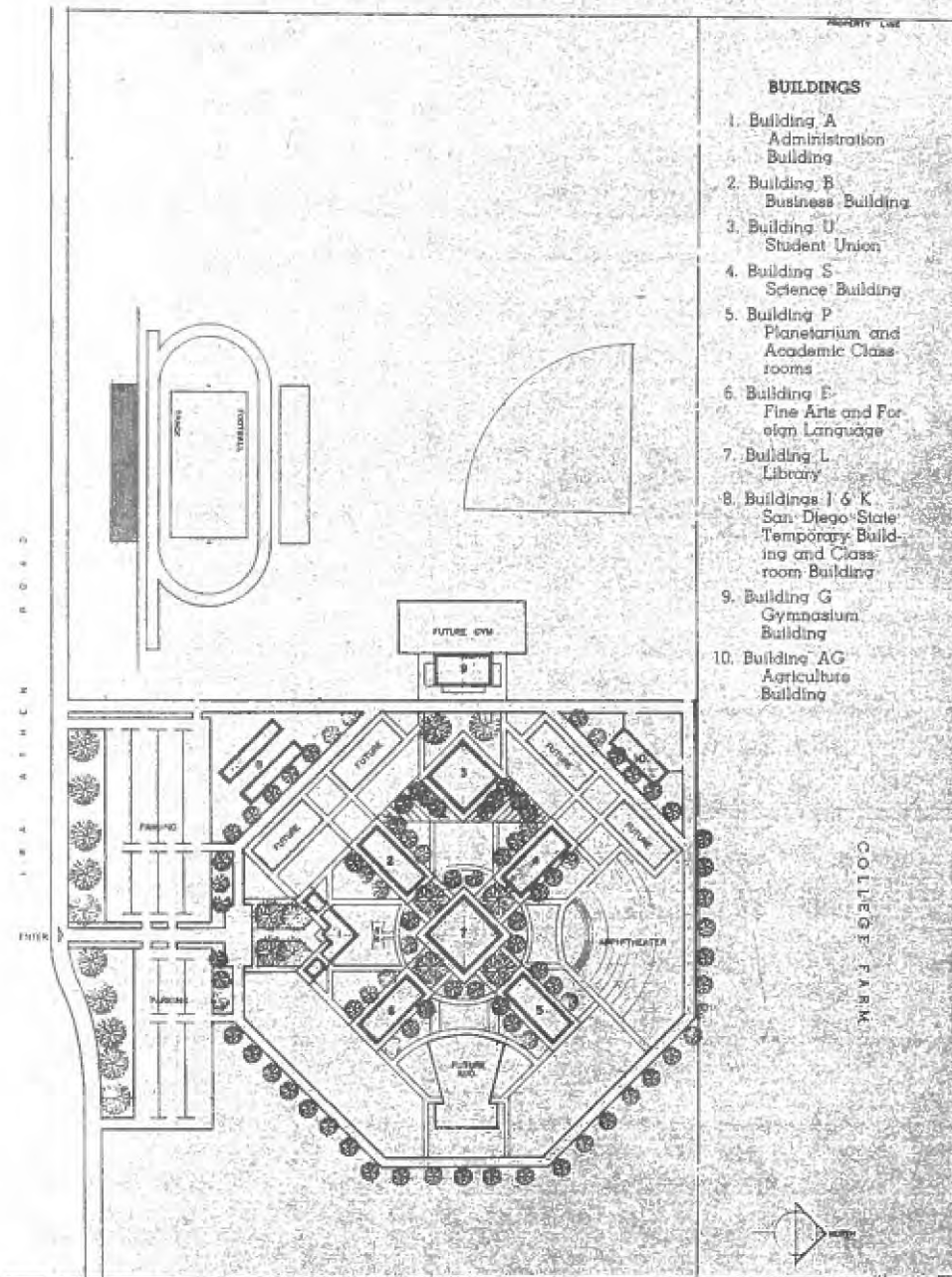


IMPERIAL VALLEY COLLEGE



BUILDINGS

1. Building A
Administration
Building
2. Building B
Business Building
3. Building U
Student Union
4. Building S
Science Building
5. Building P
Planetarium and
Academic Class
rooms
6. Building E
Fine Arts and For
eign Language
7. Building L
Library
8. Buildings J & K
San Diego State
Temporary Build
ing and Class
room Building
9. Building G
Gymnasium
Building
10. Building AG
Agriculture
Building

1962 - 1964

GENERAL
CATALOG

IMPERIAL VALLEY COLLEGE

ACCREDITED

by

The Western College Association
The State Department of Education

A

MEMBER

of

California Junior College Association
and the
Southern California Junior College Association

APPROVED

by

The Veterans Administration

TABLE OF CONTENTS

COLLEGE CALENDAR

GENERAL INFORMATION

Personnel	6
Location	9
History	9
Facilities	11
Library	11
Objectives and Philosophy	12
General Education	13
Types of Courses and Programs	14
Degree	17
Scholastic Honors	18
Scholarships	19
Expenses	20
Loans	20
Guidance Services	20
Accreditation	21
Institutional Affiliations	21
Approval by Veterans Administration	21
Student Activities	22

REGULATIONS

Admission	23
Transcripts	25
Residence Requirements	26
Release Policy	26
Deferment under Selective Service Regulations	26
Attendance	27
Schedule Limitations	28
Changes in Program of Study	28
Scholarship Grading System	28
Minimum Scholarship Requirements	30
Repetition of Courses	31
Withdrawal from College	31
Physical Education	32

GRADUATION REQUIREMENTS

TRANSFER REQUIREMENTS

SUGGESTED CURRICULA

SAMPLE CURRICULA

COURSES OF INSTRUCTION

INDEX

1962

SEPTEMBER						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
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CALENDAR

1962 - 1963

FALL SEMESTER

- July 16-Aug. 31—9 a.m.-4:00 p.m.—Pre-registration counseling for Freshmen.
- Aug. 15—Last day for filing advance application for admission. (Students with advance applications are given preference in counseling appointments and admission to classes.)
- Sept. 3—Labor Day holiday.
- Sept. 4—6:20 p.m.-10:00 p.m.—Aptitude, English, and Mathematics placement tests. Required of all entering students.
- Sept. 7—8:50 a.m.-12:30 p.m.—Repetition of placement tests.
- Sept. 11—1:00 p.m.-5:00 p.m.—Registration of day Sophomores.
- Sept. 12—1:00 p.m.-5:00 p.m.—Registration of day Freshmen with advance applications.
- Sept. 13—1:00 p.m.-5:00 p.m.—Registration of day Freshmen.
- Sept. 14—1:00 p.m.-8:00 p.m.—Registration of evening students.
- Sept. 17—Day and evening instruction begins.
- Oct. 5—Last day for change of program.
- Oct. 26—Last day for withdrawal from class without penalty.
- Nov. 9—Imperial County Teachers' Institute (Student holiday).
- Nov. 12-16—Mid-term examinations.
- Nov. 22-23—Thanksgiving holidays.
- Dec. 24-Jan. 1—Christmas and New Year's holidays.
- Jan. 9, 16—Pre-registration for Spring Semester.
- Jan. 18-25—Final examinations.
- Jan. 25—Fall semester ends.

SPRING SEMESTER

- Jan. 11—8:50 a.m.-12:30 p.m.—Aptitude, English, and Mathematics placement tests. Required of all entering students.
- Jan. 15—6:20 p.m.-10:00 p.m.—Repetition of placement tests.
- Jan. 17—1:00 p.m.-5:00 p.m.—Registration of Sophomores.
- Jan. 18—1:00 p.m.-5:00 p.m.—Registration of Freshmen.
- Jan. 28—Day and evening instruction begins.
- Feb. 15—Last day for change of program.
- Mar. 8—Last day for withdrawal from class without penalty.
- Mar. 25-29—Mid-term examinations.
- Apr. 8-12—Easter vacation.
- May 22, 29—Pre-registration of Fall, 1963 Sophomores.
- May 30—Memorial Day holiday.
- June 5-11—Final examinations.
- June 12—Graduation exercises.

The 1963-1964 calendar will be published in the Spring of 1963.

GENERAL INFORMATION

THE BOARD OF TRUSTEES

- 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
- DON L. C. LYDICK
Trustee from area which includes Imperial Valley Union High School District
- WILLIAM J. THORNBURG, Jr.
Trustee from area which includes Holtville 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. Spanish, French, English
A.A., College of Southern Utah
B.A., M.A., Brigham Young University
- BLAU, LEONARD Psychology, Sociology
B.A., M.A., Los Angeles State College
- BRISTER, WOODROW W. Journalism, English
B.A., East Central State College
M.S., University of Southern California
- DIN, GILBERT C. Social Studies
A.B., M.A., University of California, Berkeley
PhD., University of Madrid, Spain
- ELLSWORTH, JOHN W. Social Studies
B.A., Sacramento State College
M.A., Claremont Graduate School
- FINLEY, LUTHER E. Engineering
B.S., M.A., Arizona State University
I.EdD, Bradley University, Illinois
- FRAME, DELMA Business Education
B.S., Indiana University
- GARDNER, LYNN J. History, Spanish
B.A., M.A., Brigham Young University
- GRAY, DONALD C. Social Studies
B.A., M.A., University of California
- GRIFFIN, WILLIAM A. Business Education
B.S., University of North Dakota
M.A., Colorado State
- HAINES, DAVID V. Geography, Geology, Mathematics
B.S., Brooklyn College
M.S., Pennsylvania State College
- HARTSHORN, ROBERT, Jr. Librarian
B.S., Brigham Young University
M.S., University of Southern California
- HINSHAW, A. J. Mathematics, Evening Counselor
B.S., M.S., University of Southern California
- HUNTER, GEORGE H. Business Administration
B.A., Claremont Men's College
M.A., Long Beach State College

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, C. LORAN Music
B.S., Arizona State College
M.S., Arizona State University
- LOWE, JUANITA Art
B.S., M.A., Western Carolina College
- MATHIS, NELDA Physical Education
B.S., Texas Woman's University
M.A., Columbia 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.S., 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., Shippenburg State College
M.S., Bucknell University
- SPEER, WILLIAM R. English
A.B., University of Chicago
M.A., Los Angeles State College
- TURNER, DONALD D. Physical Education
B.A., Monmouth College
M.A., Illinois State Normal
- WALKER, DANIEL GERS Director of Instruction
B.A., University of Corpus Christi
M.A., Southwest Texas State Teachers College

THE COLLEGE

LOCATION

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

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

HISTORY OF IMPERIAL VALLEY COLLEGE

The Imperial Valley College is an integral part of the public school system of California and functions as a public junior college for lower-division college work.

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

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

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

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

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

The Associate in Arts degree was first conferred by Central Junior College in 1934.

In the fall of 1951, students, in cooperation with the administration and faculty, petitioned the Board of Trustees for a more representative name for the college, for it was now serving students from all of the Imperial Valley. By action of the Board the name was officially changed to Imperial Valley College.

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

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

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

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

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

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

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

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

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

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

FACILITIES

Imperial Valley College
Freshmen, Sophomores

San Diego State College
Juniors, Seniors, Graduates

Imperial Valley College is unique among the junior colleges in California in that by close cooperation with a State College certain students can attend four years and complete a bachelor's degree while attending these two cooperating colleges. The Imperial Valley Center of San Diego State College shares the campus with the junior college, 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 liberal arts, and as the demand expands, other courses will be added to the San Diego State curriculum.

LIBRARY

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

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

OBJECTIVES AND PHILOSOPHY

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

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

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

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.

GENERAL EDUCATION

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

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

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

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. (California Education Code 5706.5.) 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 are restricted to applicants from specified districts; others have no restrictions and may be awarded to anyone from the Imperial Valley. These scholarships range in amount from \$25.00 to \$100.00.

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

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

At universities and colleges, scholarships are available 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 average approximately \$50.00 a semester, but vary depending upon the courses that are taken.

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

LOANS

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 teaching. Under certain circumstances, up to one-half of the amount of the loan is cancelled 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.

The counseling program is offered as a series of guidance workshops and individual conferences. Workshop sessions

are devoted to such topics as educational planning, occupational exploration, and, when needed, to the development of skills necessary for success in college. Guest speakers and field trips afford a close look at current employment opportunities. Tests to help the student acquire knowledge about his special abilities and interests are given, 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.

Each student has regularly scheduled individual counseling sessions with his teacher-counselor. 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 may gain actual experience in the fields 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, head cheerleader, 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 refreshments and meals 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), 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 placement tests which include English 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 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.

Non-high school graduates 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+). This restriction does not apply to registration in special classes or to persons who attend on a part-time basis only. (E.C. 5709)

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 current school years.

By action of the governing Board of Trustees of the College, and on the basis of need and ability, fees may be waived for not more than two students from any one foreign country.

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

Under present legal interpretations of the State Code relative to inter-district attendance agreements, it is unlikely that the Board of Trustees will issue permits for residents to attend any other junior college. It appears that to do so would place an undue financial burden on the local district.

DEFERMENT OF STUDENTS UNDER SELECTIVE SERVICE REGULATIONS

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

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

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

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

ATTENDANCE

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 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 unconcern in meeting class requirements, or has been uncooperative 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.

Students on probation are enrolled in school conditionally, and are expected to make wise use of their time and to abide by the recommendations of the counselors in improving their study habits. Neglect of these recommendations, such as in card playing on the campus, will be considered as evidence of the students lack of sincerity in improving their academic status.

A student who is placed on probation must, in order to be removed from probation, achieve a grade point average of 1.5 or over in all work that is undertaken. The number of units carried must be at least seven, or if the student carried fewer than seven units the previous semester, it must at least equal the number of units carried at the time the student was placed on probation.

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 32.)

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 honor-

able 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 29.)

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. (Ed. Code 8161 - 8162.1.)

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

- (1) Physical disability
- (2) Age, twenty-two or over
- (3) Postgraduate standing
- (4) Enrollment in 8 or fewer units
- (5) Completion of basic or recruit training in any of the Armed Forces of the United States. (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.

(Note: Many four-year colleges require credit for four semesters of physical education regardless of these junior college regulations. Transfer students are advised to check the catalogs of the institutions they expect to attend.)

Students may not enroll in an evening physical education activity class for recreation. (5 Calif. Adm. Code 120.3.)

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.

The requirements for graduation represent not only the minimum general requirements outlined by the State, but also the firm commitment on the part of Imperial Valley College to

the principles of **general education**. These requirements in general education are designed to develop the potential of every student, broaden his outlook, and contribute to the realization of the well-balanced whole man.

I. GENERAL REQUIREMENTS

A. UNIT REQUIREMENT

There must be satisfactory completion of at least 60 units of work.

B. SCHOLARSHIP REQUIREMENT

A grade point average of 2.0 (C) or higher must be earned in all work undertaken.

C. RESIDENCE REQUIREMENT

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

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

II. GENERAL EDUCATION REQUIREMENTS

A. ENGLISH

This requirement may be satisfied by completion of at least 6 units from one of the following course sequences:

1. English 1A-1B;
2. English 51A-51B;
3. English 1A and Business 80;
4. English 1A plus 3 units from English 15, 30A-30B or 56A-56B; Business 80; Journalism; or Speech.

B. PHYSICAL EDUCATION (2 units)

California State law requires all junior college students to take directed physical education activities each semester. Exemption from this requirement may be granted for the following reasons:

1. The student is twenty-one 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 expects to transfer to a four year college may be required to have four semesters of

credit in physical education classes even though this requirement is waived for him at the junior college level.

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 can 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 can 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**

The Mathematics requirement may be met by scoring sufficiently high on the placement test or by passing either Mathematics 51 (Basic Mathematics), Mathematics 9 (Technical Mathematics) or Business 61 (Business Mathematics).

III. MAJOR REQUIREMENT

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

A. **AGRICULTURE**

B. **ART**

C. **BIOLOGICAL SCIENCE** (anatomy, biology, botany, psychology 1B, physical anthropology, physiology, zoology)

D. **BUSINESS**

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

E. **ENGINEERING**

F. **ENGLISH** (English, journalism, speech, drama)

G. **HISTORY**

H. **HUMANITIES** (humanities, art, music, literature, philosophy)

I. **LANGUAGES** (English, French, Spanish)

J. **MATHEMATICS** (mathematics, engineering, physics)

K. **MUSIC**

L. **POLICE SCIENCE**

M. **PHYSICAL SCIENCE** (physical science, chemistry, physical geography, geology, physics)

N. **SOCIAL SCIENCE** (cultural anthropology, economics, education, cultural geography, history, psychology, sociology)

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

P. **LETTERS AND SCIENCE** (Completion of lower division requirements in a selected field as required for upper division standing at a specific university or college)

IV. 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 III, or

B. Completion of the lower division requirements of the college or university to which the student wishes to transfer.

V. GENERAL EDUCATION RECOMMENDATIONS

It is strongly recommended that the student, in meeting the above requirements, schedule his program so that he completes at least one course in science and one course in the humanities (humanities, literature, philosophy, art music).

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

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

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

- (1) Social Sciences 9

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.

For example, San Diego State College lists different specific requirements in the field of General Education for different degrees that may be earned at the college.

For the **Bachelor of Arts Degree in Liberal Arts and Sciences** the following requirements are included: (Course numbers are given for work that can be taken at Imperial Valley College.) These requirements apply to all of the suggested San Diego State transfer curricula which follow except Business, Education, Engineering, and Geography; and may or may not apply to Chemistry, Mathematics, and Physics depending on the Degree that is sought.

A. Natural Sciences Minimum Units

1. A combination of two or more of the following 9
- a. Not less than three units of Biology (Biology 3)
 - b. Not less than three units from Chemistry (Chemistry 1A), Geology (Geology 1A), Physics (Physics 2A or 4A), Astronomy (Astronomy 1) and Physical Science.
 - c. If, in meeting the above requirements, the student has not completed at least nine units, the remaining units of the total requirement of nine may be satisfied by choosing a course, with or without labor-

atory, from the following: Geography (Geography 1); or any course in astronomy, biology, botany, chemistry, geology, physical science, physics, or zoology. (Parallel courses to SDSC.)	
2. Mathematics (Mathematics 18 or a higher numbered course)	3
B. Social Science	
1. American Institutions (History 17AB)	6
2. Social Science—Two three-unit courses chosen from two of the following fields: Anthropology (Anthropology 1 or 2), Economics (Economics 1A), Geography (Geography 2), Sociology (Sociology 1A)	6
C. The Humanities and Fine Arts	
1. A one-year course in western civilization (History 4AB)	6
2. Six units in literature, philosophy, or the history or appreciation of art or music (Art 50; Philosophy 1A, 1B, 20; English 30A, 30B, 56A, 56B)	6
3. At least three units under Humanities and Fine Arts or elsewhere must be in literature or philosophy.	
D. Other	
1. Foreign language as required by the major department. The foreign language requirement of a knowledge of a language other than one's native tongue may be met by the satisfactory completion of courses through 12 units at the college level or by written examination. (French 1,2,3; Spanish 1,2,3)	0-12
2. Communication	
Oral (Speech 1A)	2
Written (English 1AB)	6
3. Psychology (1A)	3
4. Health Education (P.E. 21)	2
5. Physical Education Activity courses—credit for four semesters required (P.E. 1-20)	2
Total	51-63

As many of the General Education courses as possible should be included in the freshman and sophomore years. This is of great importance to the student, for in his long-range planning he will find that the upper division requirements often do not leave time for general education requirements during the third and fourth years of college work.

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. 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 Coordinator of Counseling or the Director of Instruction.

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

TRANSFER CURRICULA

importance that each student who expects to continue his education after leaving Imperial Valley College obtain the catalog of the institution he expects to attend, and that he make, in consultation with his teacher-counselor, the necessary adjustments in the suggested curricula of his choice.

Transfer Curricula Majors

Agriculture

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

Business

Business Administration

- Accounting
- Banking and Finance
- Insurance

Management

- Business
- Industrial
- Office
- Personnel
- Production
- Secretarial

Real Estate

Business Education

Chemistry

Education

- Elementary
- Kindergarten-Primary
- Secondary

Engineering

English

French

Geography

History

Latin American Studies

SEMIPROFESSIONAL CURRICULA

Letters and Science

- Anthropology
- Business Administration
- Economics
- English
- French
- History
- International Relations
- Mathematics
- Political Science
- Psychology
- Public Service
- Spanish
- Zoology

Mathematics

Philosophy

Physics

Pre-professional

Psychology

Romance Languages

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

Liberal Arts

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

Vocational

Agriculture

- Agriculture Business
- Agriculture Engineering
- Animal Husbandry
- Crops
- Farm Management

Business

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

Engineering Technician

Vocational Work-Study

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.¹

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
² Selected courses, and				
³ Electives			9-10	9-10
			16-17	16-17

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	½	½
P.E.	21	Health Education	2	
Speech	1A	Speech		2
² Selected courses, and				
³ Electives			13-14	13-14
			15½-16½	15½-16½

¹—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.**

²—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, or equivalent.

Group A—

- Botany 1
- Chemistry 1A-1B, 5A
- 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

³—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. Students may specialize in Agriculture Business, Agriculture Engineering, Animal Husbandry, Crops, Farm Management.

Freshman

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

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Ed. Activity ..	1/2	1/2
Speech	1A	Speech	2	
P.E.	21	Health Education		2
Math	6	² Agriculture Electives	10-12	10-12
		³ Minor		3
Math		⁴ Mathematics	3	
			<hr/>	<hr/>
			15 1/2-17 1/2	15 1/2-17 1/2

¹—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 80, Journalism, or Speech.

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

³—A minor of nine units is required for graduation.

⁴—Mathematics course selected on the basis of the score on the mathematics placement test.

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. 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 U.S.	3	3
Bot	1A	General Botany	4	
Math		¹ Mathematics		3
Speech	1A	Speech		2
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	18

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	1/2	1/2
Zoo	1AB	General Zoology	4	4
Econ	1A	Principles of Economics	3	
Ag	10AB	Field, Cereal, Forage Crops	4	4
Ag	23	Beef Production		3
Ag	24	Sheep Production		3
Ag	30	Agriculture Mechanics	4	
Ag	31	Farm Machinery		3
Ag	40	Soils & Soil Management ..	3	
			<hr/>	<hr/>
			18 1/2	17 1/2

¹—Mathematics course selected on the basis of score on mathematics placement test.

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		¹ Mathematics		3
		² Selected Science	3- 4	3- 4
Ag	50	Introduction to Agricultural Business Management	3	
		Agriculture electives		3
			<hr/>	<hr/>
			16-17	16-17

Sophomore

Psych	9CD	Guidance Workshop		
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	
Math	6B	Agricultural Mathematics ..	3	
Ag	51	Agricultural Business Organizat'n & Managem't		3
		Agriculture Electives		3
			<hr/>	<hr/>
			16½	15½

¹—Mathematics course selected on the basis of the score made on the mathematics placement test.

²—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		¹ Mathematics		3
Ag	10AB	Field, Cereal, Forage Crops	4	4
Ag	13	Weeds & Poisonous Plants	3	
Ag	41	Fertilizers and Soil Fertility	3	
		Agriculture Electives		3
			<hr/>	<hr/>
			17	17

Sophomore

Psych	9CD	Guidance Workshop		
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	11	Winter Truck Crop Production	3	
Ag	12	Warm Season Truck Crop Production	3	
Ag	30	Agricultural Mechanics	4	
Ag	31	Farm Machinery		3
Ag	40	Soils		3
		Agriculture Electives		2- 3
			<hr/>	<hr/>
			16½	16½-17½

¹—Mathematics course selected on the basis of the score made on the mathematics placement test.

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	5	5
Math	9	Technical Mathematics	3	
Engr	2	Engineering Drawing		3
			<hr/>	<hr/>
			18	18

Sophomore

Psych	9CD	Guidance Workshop		
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		3
Ag	32	Irrigation & Drainage	3	
Ag	33	Farm Tractors		3
Ag	40	Soils	3	
Engr	28	Plane Surveying		3
			<hr/>	<hr/>
			16½	18½

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		¹ Mathematics		3
Bot	1A	General Botany	4	
Ag	50	Introduction to Agricultural Business	3	
Ag	51	Agriculture Business Organ- ization & Management		3
			Agriculture Electives	2-3
			<hr/>	<hr/>
			16-17	16-17

Sophomore

Psych	9DC	Guidance Workshop		
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	3	
Ag	58	Agricultural Marketing		3
			Agriculture Electives	3
			<hr/>	<hr/>
			17½	16½

¹—Mathematics course selected on the basis of the score made on the mathematics placement test.

BUSINESS — BUSINESS ADMINISTRATION

Prepares for the junior year at San Diego State College.¹

The following basic course meets the general lower division requirements at San Diego State College in Business Administration in the majors of **Accounting** (Department of Accounting), **Banking and Finance, Insurance, Real Estate** (Department of Business Law and Finance), **Management—Business, Personnel or Production** (Department of Management²), and **Office Management, Secretarial Management** (Department of Business Education³).

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	2	Mathematics of Finance		3	
Bus	30AB	Business Law	3	3	
Bus	71	Typewriting	3		
Eng	1A	Composition		3	
		⁴ Selected Science Course	3		
Econ	1AB	Principles of Economics	3	3	
			16	16	
Sophomore					
Psych	9CD	Guidance Workshop			
P.E.		Physical Education Activity	1/2	1/2	
Hist	17AB	History of the United States	3	3	
Psych	1A	General Psychology	3		
Speech	1A	Speech		2	
P.E.	21	Health		2	
		⁵ Selected Course in the Arts	3		
Eng	1B	Introduction to Literature	3		
Bus	80	Business Correspondence ..		3	
		⁴ Selected Science Course	3	3	
		⁶ Elective		2 -3	
			15 1/2	15 1/2-16 1/2	

¹—See page 71 for Business Administration Curricula which prepares for junior year at University of California at Los Angeles.

²—A major in Management requires 9 units of approved life science and 9 units of humanities or fine arts in addition to the general education requirements. Some of these courses should be elected in the freshman and sophomore years if possible. (See SDSC catalog for details.) The major also requires courses in statistics and mathematical analysis which may be taken in the upper division.

³—The Department of Business Education requires Business 72 and 73.

(Continued on Following Page)

BUSINESS — BILINGUAL SECRETARIAL

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

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		¹ English	3		
		Foreign Language	4	4	
Bus	16	Introduction to Business	2		
Bus	61	Business Mathematics		2	
Bus		² Typewriting	3		
Bus	72A	Advanced Typewriting		3	
Bus	75AB	Shorthand	3	3	
Bus	80	Business Correspondence ..		3	
P.E.	21	Health Education		2	
			16	18	
Sophomore					
Psych	9CD	Guidance Workshop			
P.E.		Physical Education Activity	1/2	1/2	
		Foreign Language	1-4	1-4	
Bus	67AB	³ Bookkeeping	3	3	
Bus	72B	Office Procedures	3		
Bus	73	Office Machines		3	
Bus	76A	Advanced Shorthand	3		
Bus	76B	Advanced Dictation and Transcription		3	
Hist	17AB	History of United States	3	3	
		⁴ Elective	2-3	2-3	
			Not to exceed	18 1/2 18 1/2	

¹—English 1A or 51A.

²—Students should register for the typewriting class for which they have the prerequisites.

³—Business 1A-1B, Accounting, may be substituted on approval of the instructor.

⁴—Suggested electives: Geography 1, 2; History 4A-4B, 8A-8B, or 10A-10B; Political Science 1A-1B, or any course in the field of the Humanities.

(Continued from preceding page)

The Secretarial Management major requires Business 75AB. For details of requirements for the Business Education major see page 53

⁴—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.

⁵—Six units are required in the field of the arts, at least three of which must be in literature or philosophy.

⁶—Suggested electives: English 15, Business 71, 72, 73.

BUSINESS — BOOKKEEPING

Prepares for employment at the end of 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	16	Introduction to Business	2	
Bus	17	Business Management		2
Bus	61	Business Mathematics	2	
Bus	67AB	Bookkeeping	3	3
Bus	71	Elementary Typing	3	
Bus	73	Office Machines		3
Eng 1A or	51A	English	3	
Bus	71B	Intermediate Typewriting ..		3
Bus	80	Business Correspondence ..		3
P.E.	21	Health		2
		¹ Elective	2-3	
			16-17	17

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	1/2	1/2
Bus	1AB	Accounting	3	3
Bus	30AB	Business Law	3	3
Bus	51	Income Tax	2	
Hist	17AB	United States History	3	3
		² Selected Social Science Course	3	
		¹ Elective	1-3	6-8
			15 1/2-17 1/2	15 1/2-17 1/2

¹—Suggested electives: Business 72AB, Speech 1AB, English 15, Economics, Shorthand, Music, Art, Literature.

²—Anthropology, Economics, Geography 1B, History, Psychology, or Sociology.

Note: Those interested in **Accounting** see Business Administration curriculum, page 50.

BUSINESS — 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.

This curriculum is subject to change without notice as new requirements established by the legislature are incorporated by 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		Selected Course in Literature		3
Bus	1AB	Principles of Accounting	3	3
Bus	30AB	Business Law	3	3
Bus	72	¹ Advanced Typing	3	
		² Selected Science Course	3	3
Bus	73	Office Machines		3
			16	16

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	1/2	1/2
Speech	1A	Elementary Speech	2	
P.E.	21	Health		2
		² Selected Science Course	3	
		Selected Literature, Music, Art, Philosophy		3
Bus	80	Business Correspondence ..		3
Econ	1AB	Principles of Economics	3	3
Hist	17AB	History of the United States ..	3	3
Psych	1A	General Psychology	3	
		³ Selected Course	3	1-3
			17 1/2	15 1/2-17 1/2

¹—Advanced Typing or its equivalent is required.

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

³—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)

The General Secondary Teaching Credential requires a teaching minor, the lower division requirements of which should be included in the program.

BUSINESS — REAL ESTATE

Prepares for employment at the end of the Sophomore year.¹

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	30AB	Business Law	3	3
Bus	40	Principles of Real Estate	3	
Bus	41	Real Estate Practices		3
Bus	43	Real Estate Finance		3
Bus	80	Business Correspondence ..		3
Eng 51A or 1A		English	3	
Hist	17AB	History of the United States	3	3
Speech	1A	Speech	2	
P.E.	21	Health Education	2	
			<hr/>	<hr/>
			17	16

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	1/2	1/2
Bus	17	Business Management		3
Bus	42	Real Estate Law	3	
Bus	44	Real Estate Appraising	3	
Bus	45	Trends and Factors		3
Bus	50	Salesmanship	3	
Bus	77AB	Bookkeeping	3	3
Econ	1AB	Principles of Economics	3	3
		² Electives		3
			<hr/>	<hr/>
			15 1/2	15 1/2

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

Real Estate Courses (except Business 40, Real Estate Principles) are acceptable for transfer to a four-year institution.

²—Suggested electives: Psychology, sociology, geography, or mathematics.

BUSINESS — REAL ESTATE CERTIFICATE PROGRAM¹

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

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

Business	17	Business Management
Business	27	Introduction to Advertising
Business	30AB	Business Law (6 units total)
Business	34	Retailing
Business	50	Salesmanship
Economics	1AB	Principles of Economics

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

BUSINESS -- SECRETARIAL

Prepares for employment at the end of the Sophomore year.

Freshman

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop	½	½
P.E.		Physical Education Activity	½	½
Bus	16	Introduction to Business	2	
Bus	61	Business Mathematics	2	
Bus	77AB	¹ Bookkeeping	3	3
Bus	71AB	² Typewriting	3	3
Bus	73	Office Machines	3	3
Bus	75AB	³ Shorthand	3	3
Bus	80	Business Correspondence ..		3
Eng		⁴ English	3	
			<hr/>	<hr/>
			17	16

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	½	½
Bus	30AB	Business Law	3	3
Bus	72A	Advanced Typewriting	3	
Bus	72B	Office Procedures		3
Bus	76A	³ Advanced Shorthand	3	
Bus	76B	³ Advanced Dictation and Transcription		3
Hist	17AB	History of the United States	3	3
P.E.	21	Health Education		2
Speech	1A	Speech		2
		⁵ Selected Social Science Course	3	
			<hr/>	<hr/>
			15½	16½

¹—Business 1AB, Accounting, may be substituted on approval of the instructor.

²—Three semesters of typewriting or equivalent are required.

³—Four semesters of shorthand or equivalent are required.

⁴—English 1A or 51A.

⁵—Anthropology, Economics, Geography, History, Psychology, or Sociology.

Note: Those who enter the Secretarial major with previous training in typing and shorthand may elect any of the following: Bus 17, 27, 29, 34, 36, Speech 1B, English 10, 15.

CHEMISTRY

Prepares for 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
Chem	1AB	General Inorganic Chemistry	5	5
Math	3AB	Analytic Geometry and Calculus	5	5
Physics	4A	Principles of Physics		4
Eng	1A	Composition	3	
Eng	1B	Introduction to Literature		3
P.E.	21	Health	2	
			<hr/>	<hr/>
			16	18

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	½	½
Chem	5AB	Elementary Quantitative Analysis	4	4
Math	4A	Calculus and Differential Equations	4	
Physics	4BC	Principles of Physics	4	4
Hist	17AB	History of United States	3	3
Speech	1A	Speech	2	
Psych	1A	General Psychology		3
		¹ Selected Course		3
			<hr/>	<hr/>
			17½	17½

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

EDUCATION

General Elementary and Kindergarten - Primary

Prepares for the junior year at San Diego State College.

This curriculum is subject to change without notice as new requirements established by the legislature are incorporated by 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	Geography	3	3
P.E.	21	Health		2
Ed	10	Introduction to Education ..	2	
		¹ Electives	0- 2	0- 2
			<hr/>	<hr/>
			15-17	15-17

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

¹—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, 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**.

²—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.

³—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 23-24. If deficiencies exist, these may be removed by taking elective courses that will meet the requirements.

This curriculum is subject to change without notice as new requirements established by the legislature are incorporated in the program by the University of California at Los Angeles.

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
Geog	1, 2	Physical and Cultural Geography	3	3
		¹ 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
			<hr/>	<hr/>
			16-17	16-17

Sophomore				
Dept.	Course	Subject	Sem. I	II
Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	1/2	1/2
Psych	1AB	General Psychology	3	3
		² 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	
			<hr/>	<hr/>
			16 1/2-17 1/2	15 1/2

¹—Chosen from Chemistry 1A; Geology 1A; Mathematics C,1; Physics 1AB.
²—Chosen from Anthropology 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** (or minors, if required).

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	Physics
Chemistry	Psychology
English	Romance Languages
French	Social Science
Mathematics	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 units from Anthropology, Economics, Geography 2, Political Science, or Sociology.

Mathematics: Mathematics 3AB; one course selected from Astronomy 1, Business Administration 2, Physics 2A or 4A; and additional electives in mathematics for a total of 12 lower division units.

Physical Science: Biology 3, Chemistry 1AB, Geology 1A, Physics 2AB or 4ABC. Biology 4 to be taken in upper division.

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;

(Continued on the following page)

ENGINEERING

Prepares for the Junior year of college work.¹

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
Engr	2A	Engineering Drawing	3	
Chem	1AB	General Inorganic Chemistry	5	5
Math	3AB	Analytic Geometry & Calculus	5	5
Physics	4A	Principles of Physics		4
			<hr/>	<hr/>
			17	18

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	½	½
Engr	10	Engineering Problems		3
Engr	21	Descriptive Geometry		3
Engr	28AB	Plane Surveying	3	3
Physics	4BC	Principles of Physics	4	4
Math	4A	Calculus & Differential Equations	4	
Hist	17AB	History of the United States	3	3
P.E.	21	Health Education	2	
Speech	1A	Speech	2	
			<hr/>	<hr/>
			18½	16½

¹—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.

(Continued from preceding page)

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 TECHNICIAN

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

Freshman

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop	½	½
P.E.		Physical Education Activity	½	½
Engr.	2AB	Engineering Drawing	3	3
Eng		¹ English Sequence	3	3
Hist	17AB	History of the United States	3	3
Math	9	Technical Mathematics	3	
Astro	1	Elementary Astronomy	3	
Chem	2	Introduction to Chemistry ..		4
Math		² Mathematics		3
			<hr/>	<hr/>
			16	17

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	½	½
Engr	10	Engineering Problems	3	
Engr	21	Descriptive Geometry		3
Engr	23	Engineering Processes		3
Engr	28AB	Plane Surveying	3	3
Engr	51AB	Beginning Welding	2	2
Math	A	Intermediate Algebra	3	
Math	C	Plane Trigonometry		3
P.E.	21	Health Education	2	
Phy Sci	5	Introduction to Physical Science		3
Agr	32	Irrigation and Drainage	3	
			<hr/>	<hr/>
			16½	17½

¹—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.

²—Any three unit mathematics course selected with approval of the counselor.

ENGLISH

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
Eng	1A	Composition	3	
Eng	1B	Introduction to Literature ..		3
		¹ Selected Social Science Course	3	
Hist	17AB	United States History	3	3
Math	18	Introduction to Mathematics	3	
		² Foreign Language	4	4
		³ Selected Science		3- 4
P.E.	21	Health		2
			<hr/>	<hr/>
			17	16-17

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	½	½
Eng	30AB	American Literature	3	3
		³ Selected Science	3- 4	3- 4
Psych	1A	General Psychology	3	
Eng	56AB	Survey of English Literature	3	3
Speech	1A	Speech		2
		Foreign Language	0- 4	
		Selected Social Science		3
		³ Elective	0-4	2-3
			<hr/>	<hr/>
			Not to Exceed 18½	18½

¹—See General Education requirements, page 35.

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

³—See General Education requirements, page 35.

FRENCH

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
French	1,2	French	4	4
Spanish		¹ Spanish	4	4
Hist	17AB	History of the United States	3	3
		² Selected Science Course	3	3
Eng	1A	Composition	3	
Eng	1B	Introduction to Literature		3
			18	18

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	½	½
French	3,4	French	4	4
Psych	1A	General Psychology		3
Hist	4AB	History of Western Civilization	3	3
		² Selected Science Course	3- 4	
		² Selected Literature, Music, Art or Philosophy		3
Speech	1A	Speech	2	
P.E.	21	Health		2
Math	18	Introduction to Mathematics	3	
			15½-16½	15½

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

²—See General Education requirements, page 35.

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
		¹ 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	
		² Selected Science	3- 5	3- 5
		² Electives	0- 2	0- 3
			Not to exceed 18	18

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	½	½
		¹ Foreign Language	0- 4	0- 4
		⁴ Selected Music, Literature, Art, Philosophy	3	3
Psych	1A	General Psychology	3	
Geol	1AB	Physical and Historical Geology	4	4
Math	18	Introduction to Mathematics	3	
P.E.	21	Health		2
		³ Electives	0- 3	0- 8
			Not to exceed 18½	18½

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

²—See General Education Requirements, page 35.

³—Suggested electives: Sociology, Anthropology, History, Speech 1B, English 15, Psychology 1B or requirements for General Education.

⁴—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
		¹ Selected Science	3- 4	3- 4
		² Foreign Language	0- 4	0- 4
		³ Electives	0- 4	
Not to exceed			17	18

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	½	½
Hist	8AB	History of the Americas	3	3
Hist	17AB	History of the United States	3	3
Econ	1AB	Economics	3	3
Math	18	Introduction to Mathematics	3	
		¹ Selected Science		3
		¹ Selected Art, Music, Literature of Philosophy	3	3
		³ Elective	2-3	2-3
			17½-18½	17½-18½

¹—See General Education requirements, page 35.

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

³—Suggested electives: Political Science 1A-1B, Foreign Language, Speech 1B, Psychology 1B, Business 71, English 15, or additional General Education requirements.

LATIN AMERICAN STUDIES

Prepares for the junior year at San Diego State College.

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

Freshman

Dept.	Course	Subject	Sem. I	II
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
		¹ Selected Science	3- 4	3- 4
		² Selected Prerequisite Course	3	3
		³ Elective	0- 3	0- 3
			15-18	15-18

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	½	½
		² Selected Prerequisite Course	3	3
		² Selected Prerequisite Course	3	3
Span	3-4	⁴ Intermediate Spanish or Elective	4	4
		¹ Selected Science	3	
Psych	1A	General Psychology		3
		Selected Music, Art, Philosophy		3
Math	18	Introduction to Mathematics	3	
			16½	16½

¹—See General Education requirements, page 35.

²—Three 6 unit courses from Anthropology 1, 2; Economics 1AB, Geography 1, 2; History 8AB; or Political Science 90, 91 are prerequisites for the major in Latin American Studies.

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

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

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 23-24. If deficiencies exist, these may be removed by taking elective courses that will meet the requirements.

Authorized exemptions from the general requirements listed below should be checked by the student under the requirements for his major as listed in the UCLA catalog.

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
		¹ Physical Science	3- 4	3- 4
Hist	17AB	History of the United States	3	3
		² Selected Humanities Course	3	3
		³ Prerequisites for minor and/or major, or Elective	3-4	2-3
P.E.	21	Health		2
Not to exceed			18	18
Sophomore				
Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	½	½
		⁴ Foreign Language or Elective	0- 4	0- 4
		⁵ Social Science	3	3
		⁶ Biological Science	3- 4	3- 4
		² English 30AB, Philosophy 1AB or Music 3AB	3	3
		³ Prerequisites for Major and/or minor, or Elective	2- 3	2- 3
		² Selected Humanities Course	3	3
Not to exceed			18½	18½

¹—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 from Math C, 1, or 3A.

²—Two six unit sequences chosen from two of the following groups: (1) English 30AB or English 56AB; (2) Philosophy 1AB; (3) Music 30AB, Humanities 1AB.

³—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.

⁴—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.

⁵—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.

⁶—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:

ANTHROPOLOGY—Required: Anthropology 1-2; Sociology 1; and six units chosen from Psychology 1AB, Geography 1-2, History 8AB, Zoology 1AB, Geology 2-3.

BUSINESS ADMINISTRATION—Required: Business 1AB, Economics 1AB, Mathematics 3AB, and completion of course 2 of a foreign language. 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.

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).

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. (For upper division work a reading knowledge of a foreign language is usually essential.)

INTERNATIONAL RELATIONS—Political Science 1A-1B; History 4A-4B, or 8A-8B; and twelve units from Economics 1A-1B; Geography 1,2, or Anthropology 1A-1B, and Sociology 1,2.

MATHEMATICS—Required: Mathematics 3A-3B, 4A. Recommended: Physics, astronomy, and a reading knowledge of French and German.

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

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.

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		¹ English Sequence	3	3
		² Courses in Selected		
		Major Field	5-6	5-6
		³ Courses in Selected		
		Minor Field	3	3
P.E.	21	Health	2	
		Elective	1-3	3-5
			15-18	15-18
Sophomore				
Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	½	½
Hist	17AB	United States History	3	3
		² Courses in Selected		
		Major Field	6	6
		³ Courses in Selected Minor		
		Field	3	3
Math		⁴ Selected Mathematics		
		Course		3
		Electives	3-6	0-3
			15½-18½	15½-18½

¹—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.

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

Biological Science (Anatomy, Biology, Botany, Psychology 1B, Physiology, Zoology)

Business

English (English, Journalism, Speech)

History

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

Languages (English, French, Spanish)

Mathematics (Mathematics, Engineering, Physics)

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

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

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

⁴—Selected course determined by score on placement test.

MATHEMATICS

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
Math	3AB	Analytic Geometry		
		and Calculus	5	5
French	1,2	¹ Elementary French	4	4
Eng	1A	Composition	3	
P.E.	21	Health Education		2
Biol	3	Introduction to Biological		
		Science		3
		² Literature, Philosophy,		
		or the Arts	3	
		³ Social Science		3
			16	18
Sophomore				
Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	½	½
Math	4A	Calculus & Differential		
		Equations	4	
French	3	Intermediate French	4	
Psych	1A	General Psychology		3
Physics		⁴ Physics	4	4
Hist	17AB	History of the United States	3	3
Speech	1A	Speech	2	
		³ Social Science		3
		² Literature, Philosophy,		
		or the Arts		3
			17½	16½

¹—Twelve units of a foreign language (or equivalent) are required

²—A total of 6 units is required. These may be selected from either Art 50 or Music 30A, and any courses in philosophy or literature.

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

⁴—Physics 2A-B, or 4A-B.

PHILOSOPHY

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

Freshman				
Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop	½	½
P.E.		Physical Education Activity	½	½
Phil	1AB	Introduction to Philosophy	3	3
Eng	1A	Composition	3	
Eng	1B	Introduction to Literature		3
Hist	17AB	History of the United States	3	3
		¹ Selected Science		3-4
		² Foreign Language	4	4
		³ Selected Social Science	3	
			17	17-18

Sophomore				
Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	½	½
		¹ Selected Science	3-4	3-4
Psych	1A	General Psychology	3	
Phil	20	Logic		3
P.E.	21	Health Education		2
Speech	1A	Speech		2
Hist	4AB	History of Western Civilization	3	3
Math	18	Introduction to Mathematics	3	
		³ Selected Social Science		3
		² Foreign Language	4	
			16½-17½	16½-17½

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

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

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

PHYSICS

Prepares for the junior year at San Diego State College.

Freshman				
Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop	½	½
P.E.		Physical Education Activity	½	½
Physics	4A	Principles of Physics		4
Chem	1AB	General Inorganic Chemistry	5	5
Math	3AB	Analytic Geometry and Calculus	5	5
Eng	1A	Composition	3	
Eng	1B	Introduction to Literature		3
		¹ Selected Social Science	3	
			17	18

Sophomore				
Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	½	½
Physics	4BC	Principles of Physics	4	4
Math	4A	Calculus and Differential Equations	4	
Hist	17AB	History of the United States	3	3
Speech	1A	Speech	2	
P.E.	21	Health Education		2
Psych	1A	General Psychology	3	
		² Selected Biological Science		3-4
		³ Selected Course in Literature, Art, or Philosophy		3
			16½	15½-16½

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

²—Biological Science to be chosen from Anatomy, Biology, Physiology, or Zoology.

³—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	1/2	1/2
P.E.		Physical Education Activity	1/2	1/2
Eng		² English Sequence	3	3
Police	1	Survey of Law Enforcement	3	
Police	2	Police Patrol Procedures		3
Police	3	Criminal Law	3	
Police	4	Criminal Investigation	3	
Police	5	Criminal Evidence		3
Police	6	Criminal Procedures		3
		³ Minor electives	3	3
			16	16

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	1/2	1/2
Hist	17AB	History of the United States	3	3
P.E.	21	Health Education	2	
Speech	1A	Speech		2
Police	7	Juvenile Court	3	
Police	8	First Aid		1
Police	9	Defensive Tactics	2	
Police	10	Traffic Control and Traffic Accident Investigation		3
		³ Minor electives		3
		⁴ Electives	5-6	4-6
			15 1/2-16 1/2	16 1/2-18 1/2

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

²—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.

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

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

POLICE CERTIFICATE PROGRAM¹

A certificate of completion of a basic police training course is presented on completion of the following courses:

		Units	
Police Sci	1	Survey of Law Enforcement	3
Police Sci	2	Police Patrol Procedures	3
Police Sci	3	Criminal Law	3
Police Sci	4	Criminal Investigation	3
Police Sci	5	Criminal Evidence	3
Police Sci	6	Criminal Procedure	3
Police Sci	7	Juvenile Control	3
Police Sci	8	First Aid	1
Police Sci	9	Defensive Tactics	2
Police Sci	10	Traffic Control and Traffic Accident Investigation	3
Total 27 Units			

¹—For Police Training Program leading to the Associate of Arts Degree see the preceding page.

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 the University of California at Los Angeles.

Freshman

Dept.	Course	Subject	Sem. I	II
Psych	9AB	Guidance Workshop	½	½
P.E.		Physical Education Activity	½	½
Psych	1AB	General Psychology	3	3
Eng	1A	Composition	3	
Eng	1B	Introduction to Literature ...		3
Hist	17AB	History of the United States	3	3
		¹ Electives, including foreign language	8	8
			<hr/>	<hr/>
			18	18

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	½	½
Anthro	2	Cultural Anthropology		3
Soc	1A	Principles of Sociology	3	
P.E.	2I	Health Education	2	
Speech	1A	Speech		2
		¹ Electives, including foreign language	12	12
			<hr/>	<hr/>
			17½	17½

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

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

Recommended for students who expect to do graduate study in psychology, at least 18 units, distributed among the following: (a) 6 units of cultural or social anthropology and/or sociology; (b) not less than 3 units of college chemistry; (c) one year of college physics, including laboratory; (d) college algebra and analytic geometry or mathematics for the social and life sciences; (e) not less than one year of work chosen from the following: general zoology, elementary physiology, elementary zoology and physiology, applied human physiology, general physiological biology, endocrinology, genetics. Students should also plan to take such courses as will give them the reading knowledge of two foreign languages required for the Ph.D. degree.

ROMANCE LANGUAGES

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		¹ Elementary Spanish	0- 4	0- 4
French		¹ Elementary French	0- 4	0- 4
Hist		² Selected History Course ...	3	3
English	1A	Composition	3	
Eng	1B	Introduction to Literature ..		3
P.E.	2I	Health	2	
Speech	1A	Speech		2
		³ Selected Science Course ..	3- 4	3- 4
			<hr/>	<hr/>
			Not to exceed 18	18

Sophomore

Psych	9AB	Guidance Workshop		
P.E.		Physical Education Activity	½	½
Spanish		¹ Intermediate Spanish	0- 4	0- 4
French		¹ Intermediate French	0- 4	0- 4
Hist	17AB	United States History	3	3
		³ Selected Science Course ...		3- 4
		Selected Music, Art, Literature		3
Math	18	Introduction to Mathematics	3	
Psych	1A	General Psychology	3	
		⁴ Electives	0- 4	0- 4
			<hr/>	<hr/>
			Not to exceed 18½	18½

¹—French 1, 2, 3, 4 and Spanish 1, 2, 3, 4 (or equivalent) are required. Students should register for the classes for which they have the prerequisites.

²—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.

³—See General Education requirements, page 35.

⁴—Suggested electives: Additional General Education requirements, Speech 1B, Psychology 1B, English 15, Art, Music, History.

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
		¹ Selected Science	3-4	3-4
		² Foreign Language	4	4
			16-17	16-17

Sophomore

Psych	9CD	Guidance Workshop		
P.E.		Physical Education Activity	½	½
Psych	1A	General Psychology		3
Math	18	Introduction to Mathematics	3	
		³ Selected Social Science Courses	6	6
		¹ Selected Music, Art, Literature or Philosophy		3
		¹ Selected Science	3-4	
		⁴ Electives	3-4	3-4
			15½-17½	15½-16½

¹—See General Education requirements, page 35.

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

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

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

SOCIOLOGY

Prepares for the junior year at San Diego State College.¹

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
Math	18	Introduction to Mathematics		3
		² Selected Science	3	
		³ Foreign Language	4	4
			17	17

Sophomore

Psych	9CD	Guidance Workshop		
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
		² Selected Music, Art, Literature, or Philosophy	3	
		² Selected Science	3-4	3-4
		⁴ Elective		2-3
			15½-16½	15½-17½

¹—Elementary Social Statistics to be completed in the junior year.

²—See General Education requirements, page 35.

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

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

SPANISH

Prepares for the junior year at San Diego State College.

Freshman

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

Sophomore

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

¹—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.

²—See General Education requirements, page 35.

VOCATIONAL WORK STUDY

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		¹ English Sequence	3	3
P.E.	21	Health	2	
		² Selected Mathematics Course	3	
		³ Selected Courses	3-7	4-12
		Vocational Work-Study	1-4	1-4
			Not to exceed 17	18

Sophomore

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

¹—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. English 51A and Business 80.
4. English 1A plus 3 units from English 15, Business 80, English 56AB, Journalism or Speech.

²—Selected mathematics course dependent on mathematics placement score on IVC entrance tests.

³—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 with the assistance of their counselors.

10A-10B Field, Cereal, Forage Crops (4-4) Yr.

Lecture and laboratory. The principles and practices of field, cereal, and forage crops production and soil management, including study of distribution, adaptation and utilization of the major field and forage crops of California, such as cotton, large edible legumes, sugar crops and cereals. Laboratories and field trips to familiarize the student with production methods, plants and seeds, processing and quality of field crops. Field laboratory work required. Parallels Cal Poly Crops Production 121, 122, and 123. (K-V and SLO).

- 11 **Winter Truck Crop Production (3) I**
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 the cooler seasons of the year in California. Parallels Cal Poly Truck Crops 122 (SLO).
- 12 **Warm Season Truck Crop Production (3) II**
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 the warmer seasons of the year in California. Parallels Cal Poly Truck Crops 226 (V-K) and Truck Crops 232 (SLO).
- 13 **Weeds and Poisonous Plants (3) 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 Parallels Cal Poly Truck Crops 226 (K-V), 232 (SLO).
- 14 **Crop Pest Controls (3) I**
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. Parallels Cal Poly Entomology 126 (K-V and SLO).
- 18 **Ornamental Shrubs (3) I**
Lecture and laboratory. Broadleaf shrubs and vines used in California. Identification, habits of growth, cultural requirements, and landscape use. Parallels Cal Poly Ornamental Horticulture 231 (K-V) and Ornamental Horticulture 122 (SLO).
- 20 **General Animal Husbandry (3) I**
Lecture and laboratory. A survey of the sources of the world's supply of animal products. The distribution of, and factors influencing domestic animals in the United States. The origin, characteristics, and adaptation of the important breeds and the influence of environment upon their development. Selection, feeding and management of sheep, swine, and cattle on California farms. Parallels Cal Poly Animal Husbandry 230 (K-V and SLO).

- 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. Lecture and laboratory. Selection of beef cattle, sheep, swine, and horses according to breed, type, and use. The animal form in relation to its various functions. Studies of recognized type standards in livestock with a critical evaluation of the criteria used in establishing these standards. Correlation of the type of the live animal with the quality of the carcass. Parallels Cal Poly Animal Husbandry 226 (K-V) and Animal Husbandry 326 (SLO).
- 23 Beef Production (3) I**
Prerequisite: Agriculture 21. Lecture and laboratory. 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) II**
Prerequisite: Agriculture 21. Lecture and laboratory. 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**
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. Parallels Agricultural Engineering 121, 122 (K-V and SLO).
- 31 Farm Machinery (3) II**
Prerequisite: Agriculture 30. Lecture and laboratory. 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 (3) I**
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 (3) II**
Lecture and laboratory. Field and shop practice in the operation, service, and adjustment of the modern farm tractor; including both wheel and track types with gasoline and diesel power units. Parallels Cal Poly Agriculture Engineering 241 (K-V and SLO).
- 34 Welding (2) I, II**
Lecture and laboratory. Elements of arc and acetylene welding of mild steel; flat horizontal, vertical, and overhead positions. Arc and acetylene cutting. Brazing and hard-face. Parallels Cal Poly Agricultural Engineering 123 (K-V).
- 40 Soils (3) I**
Lecture and laboratory. Physical, chemical and biological properties of soils as related to agriculture. 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 and Soil Fertility (3) II**
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).
- 50 Introduction to Agricultural Business Management (3) I**
Changes occurring in agriculture, careers in commercial agricultural businesses and public agricultural service agencies, development and growth of farm related industries, kinds of agricultural businesses, operational characteristics of commercial agricultural industries. Parallels Cal Poly Agricultural Business Management 101 (K-V and SLO).
- 51 Agricultural Business Organizations and Management (3) II**
Study of farm technological advance, marketing, consumer demand and other such factors as determinants of growth, types and forms of agricultural business organization. Farm and farm related businesses considered from standpoint of primary functions, services and problems including investment, mortgage and working capital requirements, credit and collections, business with banks, failures and reorganization. Emphasis on California farm related industries. Parallels Cal Poly Agricultural Business Management 201 (SLO).
- 53 Agricultural Business Sales and Services (3) II**
Study of the farm organization including type of farming and farm enterprises. Estimating investment, production rates and costs, farm earnings and other such business factors involved in determining farm production needs and in developing sales programs for the farm operation. Application of successful selling principles and practices in providing farm operators with agricultural materials, supplies and services. Consideration given to sales and service for farm related businesses and nonagricultural customers. Parallels Cal Poly Agricultural Business Management 202 (K-V and SLO).
- 58 Agricultural Marketing (3) II**
Prerequisite: Agriculture 50. Principles of marketing agricultural products, market functions, channels, market institutions, introduction to co-operative marketing, cost of marketing, marketing problems by commodities, marketing policy, government regulation. Parallels Cal Poly Farm Management 304 (K-V and SLO).

ANATOMY

- 8 Human Anatomy (3) II**
Two hours lecture, four 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.

ANTHROPOLOGY

- 1 Physical Anthropology (3) I**
Man's biological heritage; fossil evidences of early man; theories of human development; genetics; races and 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.
- 2A-2B Drawing and Painting (2-2) Yr.**
Prerequisite: Art 1A-1B. Directed work in composition and technique in water color, casein, or oil painting. Included figure drawing, landscape and still life painting, with emphasis on developing technical facility and creative expression.
- 9 Basic Design (3) I, II**
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.
- 17 Sculpture (2) I**
Prerequisite: Permission of the instructor. Study of form, structure, and three-dimensional design. Materials and techniques of modeling, construction, mosaic, reliefs, and the mobile. Parallels SDSC Art 17A, UCLA Art 25.
- 25 Ceramics (2) II**
An introduction to ceramic design. Basic methods of forming, decorating, glazing, and firing pottery forms.
- 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) I, II**
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 General Botany (4) I**
Two hours lecture, six hours laboratory per week. Designed to present a comprehensive view of the structure and function of stems, roots, leaves, flowers, and seeds of the flowering plants. Parallels SDSC Botany 21; UCLA Botany 1; Cal Poly Botany 121 (K-V).

- 1B General Botany (4) II**
Two hours lecture, six hours laboratory per week. Designed to present a comprehensive view of the structure and function of the plant kingdom from the lowest to the highest forms; typical representatives of algae, fungi, mosses, ferns, and flowering plants in proper relation to one another. Parallels SDSC Botany 50; UCLA Botany 2; Cal Poly Botany 122 (K-V).

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. 1A is a prerequisite to 1B. 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.
- 11A-11B—Intermediate Accounting (3-3) Yr.**
Prerequisite: Business 1A-1B. Accounting terminology, preparation of accounting statements, inventories, investments, income taxes, plant and equipment, intangibles, current obligations, paid-in capital, long-term debt, retained earnings, fund and reserves, and accounting for corporation stock conversion and recapitalization.
- 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.
- 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

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

31 Insurance (3) I

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.

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 (2) 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.

40 Real Estate Principles (3) I

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

41 Real Estate Practices (3) II

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

42 Real Estate Law (3) I

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

43 Real Estate Finance (3) II

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

44 Real Estate Appraising (3) I

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

45 Real Estate Trends and Factors (3) II

Prerequisite: Permission of the instructor. A practical study of the economic aspects of real estate designed to provide a grasp of the dynamic economic conditions and other factors underlying the real estate business in California. This is designed to be the senior course—the final course—in the real estate curriculum.

50 Salesmanship (3) I, II

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, II

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.
- 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**
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.
- 72A Advanced Typewriting (3) I, II**
72AE Advanced Typewriting (Extended Day) (2) I
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. This course includes various types of business letters and forms, manuscripts, legal documents, tabulation and statistical work. Business 72 parallels SDSC Business Administration 72.
- 72B Office Procedures (3) II**
72BE Office Procedures (2) II (Extended Day)
Prerequisites: Business 72A and 73 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.
- 73 Office Machines (3) I, II**
Prerequisite: Business 71A or equivalent, Business 61 or equivalent, or permission of the instructor. 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.
- 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.
- 80 Business Correspondence (3) II**
Prerequisites: Completion of English 51A or 1A and Business 71A or equivalent. 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, UCLA Chemistry 1A-1B, Davis Chemistry 1A-1B.

2 Introduction to Chemistry (4)

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.

5A-5B Elementary Quantitative Analysis (4-4) Yr.

Two hours lecture, six hours laboratory. Prerequisites: Chemistry 1A-1B, facility in use of the slide-rule and logarithms. Theoretical considerations of the principles of volumetric and gravimetric analysis with consideration of problems of acidimetry and alkalimetry the first semester. The second semester a further investigation of the problems from the first semester with emphasis placed on oxidimetry and electrolytic deposition. Laboratory work involves practice in the preparation of standardized reagents and analysis of prepared samples. Parallels SDSC Chemistry 5A-5B.

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).

2A-2B Engineering Drawing (3-3) Yr.

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. Parallels Cal Poly ME 121, 122, 123 (K-V) ME 141, 142, 143 (SLO).

10 Engineering and Technical Problems (3) I, II

Prerequisite: Two years of high school algebra or Mathematics 1 or Mathematics 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) II

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

28A 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.

28B Plane Surveying (3) II

Prerequisite: Engineering 28A. Lecture and laboratory. Topographic surveying with study of triangulation calculations, using transit-stadia and plane tables alidade, profile and cross section work, horizontal and vertical curves, and astronomical observations.

51A-51B Beginning Welding (2-2) Yr.

Gas and arc welding of light and heavy steel plate and pipe; related blueprint reading and layout work.

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.
- 10A-10B Reading Improvement (2-2) Yr.**
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 study of roots, stems, prefixes and suffixes.
- 30A-30B American Literature (3-3) Yr.**
Prerequisite: Eligibility for or completion of English 1A. A critical analysis of literary works of major American writers. The two parts of this course are divided, approximately, by the Civil War. English 30B may be taken before English 30A. Parallels SDSC English 50A-50B, and UCLA English 30A-30B.
- 31AB Creative Writing (2-2) Yr.**
Study of the principles of literary construction. Concentrated exercises in the writing of imaginative literature including short story, poetry, and essay. By arrangement with the instructor, English 31B may be taken before English 31A.
- 51A English Fundamentals I, II**
Grammar, punctuation, spelling, usage, sentence structure, and introduction to paragraph development. 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.**
Prerequisite: English 1B. Close study of typical works of major English writers, 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.
- 61 Spelling Laboratory (0) I, II**
Semi-tutorial instruction to a limited number of students who wish to improve their spelling skill; open to both remedial and advanced students.
- 051 English Review (3) I, II**
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.
- 30 Individual Study in French (1-3) I, II**
Prerequisite: French 4 and permission of the instructor. An advanced course for students who have completed the second year of French and whose command of the language merits continued study. Includes extensive reading in French. The number of books read determines the number of units awarded.

GEOGRAPHY

1 Physical Geography (3) I

Earth movements, latitude and longitude; relationships of earth, sun, and seasons; elements of the weather including air temperature, winds, pressure, precipitation, air masses and fronts; world patterns of climate, natural vegetation, soils, and landforms; the earth's water and mineral resources. A physical science general education course in the area of the natural sciences. Parallels SDSC Geography 1, and UCLA Geography 1.

2 Cultural Geography (3) II

Stresses the major regions of the earth and their population, including the physical background, races, language, religion, and economy of each region. A social science course in general education. Geography 2 may be taken before Geography 1. Parallels SDSC Geography 2, and UCLA Geography 2.

GEOLOGY

1A Physical Geology (4) I

Lecture 3 hours, laboratory 3 hours, and related field study. Destructive and constructive work of water, ice, and wind; earthquakes and the earth's interior; volcanoes and geysers; rocks and rock formations; mineral resources; coral islands; origin and history of the larger topographic features. Parallels SDSC Geology 1A, UCLA Geology 2 and 2L, and Davis Geology 1A.

1B Historical Geology (4) II

Lecture 3 hours, laboratory 3 hours, and related field studies. Origin of the earth; measurement of geologic time; the geologic periods; typical fossils and organic evolution; organic and structural studies connected with important events in the development of the earth to the present time; ancient geography; geologic maps and structure sections. Geology 1B may be taken before 1A. Parallels SDSC Geology 1B, UCLA Geology 3, and Davis Geology 1B.

21 Introduction to Mineralogy (3) II

Two hours lecture, four hours laboratory. Elementary crystallography; study of simple crystals and crystal models; crystal chemistry; occurrence and formation of minerals; identification of common minerals by means of physical properties, chemical tests, and blowpipe analysis.

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.

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.

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 (2-2) I, II

Prerequisite: Permission of the instructor. This course offers special work in yearbook production in connection with the school yearbook and includes style, copy writing, layout, advertising, and the graphic arts connected with yearbook production. Parallels SDSC Journalism 93 (1-3).

83C-83D Advanced Yearbook Workshop (2-2) I, II

Prerequisite: Journalism 83A-83B and permission of the instructor. This course offers special advanced work in yearbook production in connection with the school yearbook and includes editing, business management, graphic arts connected with yearbook production, and photography. Two hours lecture and three hours laboratory to be arranged.

93A-93B Newspaper Workshop (2-2) I, II

Prerequisite: Permission of the instructor. This course offers special work in journalism in connection with the school newspaper and includes interviewing, copy writing, copy reading, photography, style sheet, and advertising. Parallels SDSC Journalism 92 (1-3).

93C-93D Advanced Newspaper Workshop (2-2) I, II

Prerequisite: Journalism 93A-93B and permission of the instructor. This course offers special advanced work in connection with the school newspaper and includes editing, proof reading, headline writing, layout, business management, and actual printshop experience. Two hours lecture and three hours laboratory to be arranged.

MATHEMATICS

A Intermediate Algebra (3) I, II

Prerequisites: Mathematics X or Y, or equivalent. Reviews basic algebra, then continues into more difficult types of factoring, linear equations, radicals and exponents, quadratic equations, binomial expansion, arithmetic and geometric progressions, and logarithms. Not open for credit to students who received high school credit for two years of algebra. Parallels SDSC 3, UCLA D.

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 graph-

ing. Open to students with credit in high school trigonometry. Parallels SDSC Mathematics 4 (2), UCLA Mathematics C, and Davis Mathematics C.

X Beginning Algebra (3) I

Fundamentals of elementary algebra including radicals, exponents, graphing, lineal and quadratic equations, ratio and proportion. Not open to students who have credit in high school algebra.

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.

I 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. Parallels Davis Mathematics 1.

3A-3B Analytic Geometry and Calculus (5-5) Yr.

Lecture and laboratory. Prerequisites: Two years high school algebra or Mathematics 1, 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. (See Mathematics 4A for parallel courses in other colleges.)

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

Prerequisites: Mathematics C and Mathematics 1 or the equivalent. First semester includes topics in analytic geometry and differentiation and integration of algebraic functions. Second semester includes definite integrals, integration by parts, differentiation of transcendental functions, polar coordinates, conic sections, and parametric equations.

- 4A Calculus and Differential Equations (4) I**
Prerequisite: Mathematics 3B with a grade of C or better. Continuation of Mathematics 3A-3B. Solid analytic geometry, partial differentiation, multiple integration, infinite series, ordinary differential equations, and applications. The sequence of Mathematics 3A-3B, 4A parallels SDSC Mathematics 50, 51, 52; UCLA Mathematics 5A-5B, 6A-6B; Cal Poly Mathematics 118, 201, 202, 203 (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) I, II**
Prerequisite: Satisfactory grade on placement test. A Review of basic algebra and plane geometry with topics from "modern" mathematics. Recommended for students who expect to become teachers. Parallels SDSC Mathematics 10.
- 18 Introduction to Mathematics (3) I, II**
Prerequisites: Two years of high school mathematics or equivalent. Topics from logic, modern algebra, and analysis designed to give the student an introduction to the structure of mathematical theories and their applications. Parallels SDSC Mathematics 18.
- 51 Basic Mathematics (3) I, II**
A transition course from arithmetic to algebra and geometry. Brief review of fractions and decimals; percent, square root, and a survey of elementary algebra and plane geometry.
- 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.

- 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.
- 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.
- 51A-51B Vocal Music Workshop (2-2) 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.

- 20 Logic (3) II**
Introduction to deductive and inductive logic. Logic and language. Analysis of fallacies. Uses of logic in science and in daily life. A general education course in literature, philosophy and the arts. Parallels SDSC Philosophy 20, UCLA Philosophy 30.

PHYSICAL EDUCATION

Physical Education activity courses are numbered 1-20. Unless excused (see page 32), each student is required by law to 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, Golf, and Badminton (½) I, II**
Coeducational. An introduction to archery, golf and badminton.
- 12 Combative Sports for Men (½) I, II**
A study of the art of self-defense through boxing, wrestling, and fencing. Includes weight lifting.
- 13 Individual Sports for Women (½) I, II**
An introduction to such individual sports as archery, golf, and badminton.
- 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.
- 16 Folk and Square Dancing (½) I, II**
Coeducational. Participation and instruction in basic fundamentals, forms, and patterns of folk and square dancing.
- 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 (3) 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, PHYSICAL GEOGRAPHY, GEOLOGY, MATHEMATICS, and PHYSICS.

- 5 Introduction to Physical Science (3) II**
Three 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 4 and 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; and UCLA Physics 2A-2B.

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

Prerequisites: 4A. Credit or concurrent registration in Mathematics 3A.

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

Prerequisites: 4C. Physics 4B with a grade of C or better and credit or concurrent registration in Mathematics 3B. This course is designed to give a thorough understanding of the fundamental principles of physics in the areas of mechanics, wave motion, heat, electricity, light, and modern physics. Parallels SDSC Physics 4A-4B-4C; UCLA Physics 1A-1B-1C-1D; Cal Poly Physics 131, 132, 133 (K-V) and Physics 121, 122, 123 (SLO); and Davis Physics 4A-4B-4C.

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

Three 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.**

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 (3) I

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

8 First Aid (1) II

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

9 Defensive Tactics (2) I, II

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

10 Traffic Control and Traffic Accident Investigation (3) II

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

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 90, 91, 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 (½-½-½-½) I, II

Guidance in the selection of the course of study, consideration of occupational goals, development of college study skills, and discussion of personal adjustment in college. Offers the opportunity for field trips to study occupational positions and personal counseling sessions to assist with educational planning.

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, CULTURAL 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.

61 Family Relationships (3) II (Not offered 1962-1963)

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.

30 Individual Study in Spanish (1-3) I, II

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

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.

11A-11B Drama Workshop (2-2) I, 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.

30A-B-C-D Leadership Principles and Procedures (1-1-1-1) I, II

A consideration of some of the factors of successful leadership and of effective group membership. Theory and practice of parliamentary law, committee techniques, and democratic organization. A consideration of records kept by the average organization. Actual participation in student organization activity. Recommended for student officers and those interested in active participation in any phase of student affairs. Lecture, individual conference, and activity.

SUPERVISION**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

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-Management Relations (3) II

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

ZOOLOGY

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.

A	B		
Absence	27	Banking and Finance Curriculum	50
Accounting Curriculum	50, 53	Baseball	23, 107
Accreditation	21	Basketball	23, 107
Activities, Student	22	Bilingual Secretarial	51
Administration	6	Biological Science Courses	90
Admission	23	Anatomy	89
Advanced Standing	25	Biology	90
Foreign Students	25	Botany	90
High School Graduates	24	Physiology	108
Non-Graduates of High School	24	Zoology	114
Out-of-State Students	25	Curriculum	72
Recommended Status	24	Biology	90
Special High School Students	25	Bookkeeping Curriculum	52
Agriculture Courses	84	Bookstore	23
Curricula	43, 49	Business Administration Curriculum	
Transfer		San Diego State	50
Animal Husbandry	45	UCLA	71
Business Management	46	Business Courses	91
Crop Production	47	Curricula	
Engineering	48	Accounting	50
Farm Management	49	Administration	50, 71
General (Davis)	43	Agricultural	46
Semi-Professional	44	Banking and Finance	50
Alpha Gamma Sigma	18	Bookkeeping	52
Anatomy	89	Education	53
Animal Husbandry	45	General	54
Annual	22, 102	Insurance	50
Anthropology	89	Liberal Arts	72
Art	89	Management	
Associated Students	22	Administrative	71
Associate in Arts Degree	17	Agriculture	49
Astronomy	90	Business	50
Athletics		Industrial	50
Courses	106	Office	50
Eligibility	23	Personnel	50
Intercollegiate	23	Secretarial	50
Attendance	27	Merchandising	55
Awards, Scholarship	18	Real Estate	56
		Certificate Program	57
		Secretarial	58
		Bilingual	51

C		Engineering	
Calendar	5	Courses	96
California State Polytechnic College	14, 39, 84	Curricula	
Change of Program	28	Agriculture	48
Chemistry		Technician	64
Courses	95	Transfer	63
Curriculum	59	English	
Courses of Instruction	14, 84	Courses	97
Semiprofessional	15	Curriculum	65, 71
Transfer	14	Graduation Requirements	33
Crop Production Curriculum	47	Major, Letters and Science	71
Curricula		Entrance Examinations	5, 24
Semiprofessional	41	Entrance Examinations	5, 24
Transfer	39	Expenses	20
		Extended Day Program	15
D		F	
Deferment under Selective Service	26	Facilities	11
Degree of Associate in Arts	17	Faculty	7
		Farm Management	49
E		Finance and Banking Curriculum	50
Economics		Football	23, 107
Courses	96	Foreign Students	25
Majors, Letters and Science	71	French	
Education		Courses	99
Courses	96	Major, Letters and Science	71
Curricula		Curriculum	66
Business	53	G	
General Elementary		General Education	13
San Diego State	60	Requirements	33
UCLA	61	Geography	
Kindergarten-Primary		Courses	100
San Diego State	60	Curriculum	67
UCLA	61	Geology	100
Secondary	62	Grade Points	30
		Grades	28
		Graduation Honors	18
		Graduation Requirements	32
		Guidance Services	20

H		Letters and Science	
High School Honors Program ..	16	Curriculum	70
History		Major Fields	71
Courses	101	Liberal Arts Curriculum	41, 72
Major, Letters and Science	71	Library	11
Curriculum	68	Limitations of Schedule	28
History of College	9	Loans	20
Honors, Graduation	18	Location	9
Honors Program for High School Seniors	16	M	
Humanities		Management Curricula	
Courses	101	Administrative	71
Curriculum	72	Agriculture	49
		Business	50
I		Industrial	50
Industrial Management		Personnel	50
Curriculum	50	Secretarial	50
Institutional Affiliations	21	Mathematics	
Insurance Curriculum	50	Courses	102
International Relations Major, Letters and Science	71	Curriculum	72
		Entrance Examination	24
J		Graduation Requirement	34
Journalism	102	Merchandising Curriculum	55
		Minimum Scholarship Requirements	30
K		Music Courses	104
Kindergarten-Primary			
Curriculum		N	
San Diego State	60	Newspaper, Student	22, 102
UCLA	61	Night Classes	15
L		O	
Languages, Romance		Objectives, College	12
Courses	99, 111	Office Management	
Curriculum	79	Curriculum	50
Latin American Studies		Out-of-State Students	25
Curriculum	69		

P	R
Personnel Management	Readmission 31
Curriculum 50	Release Policy 26
Philosophy	Real Estate Curriculum 50
Courses 105	Repetition of Courses 31
Curriculum 74	Residence Requirements 26
Imperial Valley College 12	Romance Languages
Physical Education	Curriculum 79
Courses 106	
Exemptions 32, 33	S
Requirements 32, 33	Sample Curricula 42
Physical Science	San Diego State
Courses 107	College 11, 14, 37, 39, 84
Chemistry 95	Schedule Limitations 28
Geography 100	Scholarship
Geology 100	Grading System 28
Mathematics 102	Honors 18
Physical Science 107	Minimum Requirements 30
Physics 107	Scholarships 19
Curriculum 72	Science Courses 110
Physics	Secondary Education
Courses 107	Curriculum 82
Curriculum 75	Secretarial Curriculum 51, 58
Physiology 108	Selective Service
Police Science	Deferment 26
Certificate Program 77	Semiprofessional
Courses 108	Courses 15
Curriculum 76	Curricula 41
Political Science	Social Science
Courses 109	Courses
Major, Letters and Science 71	Anthropology 89
Preprofessional Curricula 77	Economics 96
President's Honor List 18	Geography 100
Probationary Status 31	History 101
Program	Psychology 110
Changes 28	Sociology 111
Extended Day 15	Curricula 41, 72, 80
High School Seniors	Sociology
Honor 16	Courses 111
Semiprofessional 15	Curriculum 81
Transfer 14	
Vocational Work-Study 15	
Psychology	
Courses 110	
Curriculum 78	
Major, Letters and Science 71	
Requirement 34	
Public Service Major,	
Letters and Science 71	

U
University of California
Davis 14, 39, 42, 84
Los Angeles 14, 39, 70, 84
V
Veterans
Credit for Military
Training 32, 33
Training Approved 21
Vocational Curricula 42, 83
Vocational Work-Study
Course 113
Curriculum 83
Program 15
W
Warning Status 30
Withdrawal from College 31
Withdrawal Grades 29
Work-Study Program 15
Wrestling 23, 107
Z
Zoology
Courses 114
Curriculum, Letters
and Science 71
Spanish
Courses 111
Curriculum 82
Major, Letters and Science 71
Speech Courses 112
Student
Activities 22
Newspaper 23
Store 23
Supervision Courses 113
T
Teaching Curricula
General Elementary 60, 61
Kindergarten-Primary .. 60, 61
Secondary 62
Track 23, 107
Transcripts 25
Transfer
Courses 14
Curricula 39
Requirements for four-
year institution 36
Trustees 6

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ACKNOWLEDGEMENTS

COVER DESIGN

John Grimaldo

COVER PICTURES

Smith, Powell & Morgridge, Architect

MAP

Imperial Irrigation District

ADAPTATION—Rice Berkshire III

