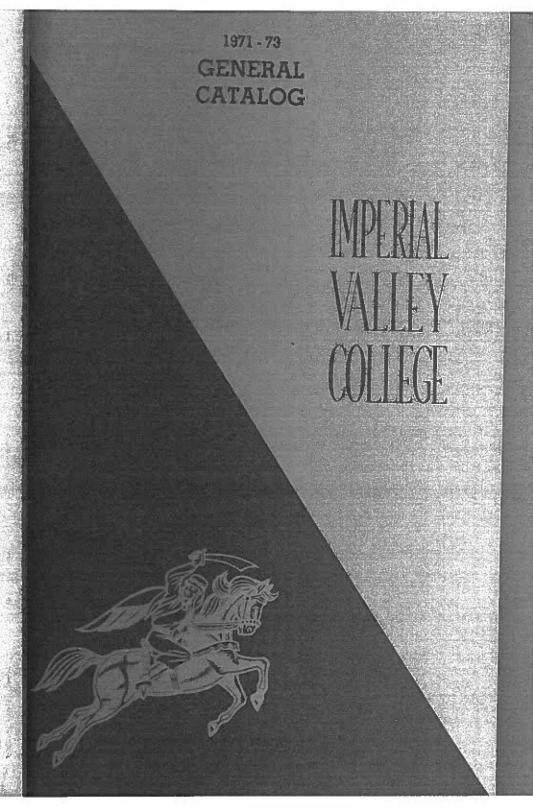
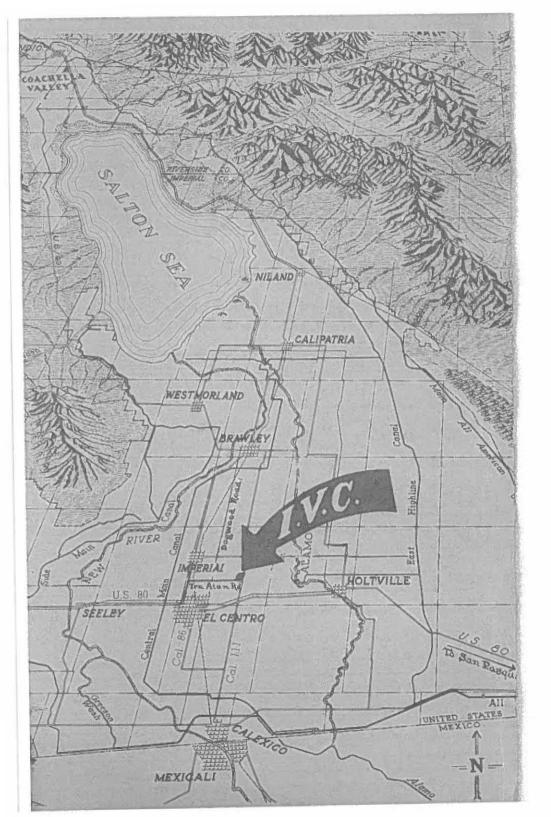
IMPERIAL VALLEY COLLEGE P. O. Box 158 IMPERIAL, CALIFORNIA 92251 (Educational Material)





1971 - 73

welcomes you and wishes to take this opportunity to congratulate you on your decision to accept the challenge of further education. This catalog is your guide to and through this college and the many educational programs which it offers. In it you will find the information which you must have to succeed. In it also are those rules and regulations which govern not only the college, but you, the student, as well. It is your obligation to become thoroughly familiar with its contents. It has been prepared with your success in mind!

ANNOUNCEMENT OF COURSES

IMPERIAL COMMUNITY COLLEGE DISTRICT

Highway 111 and Aten Road IMPERIAL, CALIFORNIA 92251 Phones: 355-1193, 352-8320 or 356-2286 IMPERIAL COUNTY, CALIFORNIA

IMPERIAL VALLEY COLLEGE

ACCREDITED

by

Accrediting Commission for Junior Colleges

Western Association of Schools and Colleges

The State Department of Education

A MEMBER

of

California Junior College Association and the California Junior College Association — Southern Region

APPROVED

by

The Veterans Administration

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CALENDAR

FALL SEMESTER 1971-72

AUGUST

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

SEPTEMBER

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

OCTOBER

1 2 3 4 5 6 7 8 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

NOVEMBER

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

DECEMBER

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

JANUARY

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

September 7-8 Preference enrollment.

September 9 Open registration and enrollment.

September 13 Instruction begins.

September 22 Last day to add classes.

October 4 Census

October 22

Last day to drop classes with W grade. Last day for students completing requirements in fall term to file petition for graduation. Last day to make up Spring semester, 1971, incomplete grades.

October 25 Veterans Day (classes dismissed)

November 25-26 Thanksgiving recess.

December 20-31 Christmas recess.

January 3 Classes resume.

January 7 Last day to drop classes without penalty of F.

January 21-28 Fall semester final examinations.

January 28 End of fall semester.

CALENDAR

SPRING SEMESTER 1972

JANUARY

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

January 31

Preference registration and enrollment for currently enrolled students.

February 1

Open registration and enrollment.

FEBRUARY

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

February 2

Instruction begins.

February 11

Last day to add classes.

MARCH

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Census.

February 21

March 10 Last day to drop classes with W grade. Last day for students to file petition for June graduation.

APRIL

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

incomplete grades.

March 27-31 Spring recess.

MAY

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

May 19

Last day to drop classes without penalty of F.

Last day to make up Fall semester, 1971,

May 29

Memorial Day (classes dismissed)

JUNE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

June 2-9

Spring semester final examinations.

June 10

Commencement.

THE BOARD OF TRUSTEES

IMPERIAL COMMUNITY COLLEGE DISTRICT

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MR. GLENN A. GENTRY Work Experience Coordinator

MR. GLENN H. HANEY Financial Aids Counselor

THE FACULTY

ALBERDA, STANLEY E Head Librarian
B.A. Hope College
M.A.L.S., University of Michigan
M.A., Michigan State University ANDERSON, LESLIE R. Law Enforcement
B.B.A., Woodbury College ANTONELLI, WANDA S. Registered Nurse
ANTONELLI, WANDA S Registered Nurse
B.S., Holy Names College M.A., University of Washington
M.A., University of Washington BANKS, STANLEY C
B.A., Macalester College M.A. California Western University
M.A., California Western University BARKER, MICHAEL A. Anthropology
B.S., Brigham Young University
M.A., UCLA BERNARD, WILLIS C. Art
RS Managabugatta Callaga of Art
BILLINGS, ROBERT Physical Education
B.S., University of Texas M.S., Southwest Texas State BURTON, ERLINDA Anthropology B.A., Philippine Women's University
BURTON, ERLINDA
M.A., Philippine Women's University
M.A., Brigham Young University CHAMPAGNE, PHILIP Welding, Automotive Technology
B.A., Arizona State University CROFTS, JOSEPH Counselor
B.A., M.A., University of Oxford
B.A., M.A., University of Oxford B.A., M.Ed., University of Texas CROUCH, STANLEY
R A M A San Francisco State College
DePAOLI, JOHN, JR Deputy Supt., Dean of Instruction
B.A., M.A., UCLA FARRAR, LLOYD
RA Oberlin College
B.A., Oberlin College M.A., Columbia University FARRIER, PAUL History
FARRIER, PAUL History
B.A., M.Ed., M.A., University of Arizona FERRIS, DELBERT Speech
A D A A A D: Co A C II
FIELDS, MAX. Physical Education
B.A., Whittier College M.A., California State Polytechnic College FINLEY, LUTHER
FINLEY, LUTHER Engineering
B.S., M.A., Arizona State University I.Ed.D., Bradley University FINNEY, DOROTHY T
FINNEY, DOROTHY T. Physical Education
Chairman of Division of Health, Physical Education and Recreation B.A. Santa Barbara State College
B.A., Santa Barbara State College FRYE, ROBERT M. Psychology
Chairman of Division of Behavioral Science B.S., M.A., Bradley University
B.S., M.A., Bradley University FUESLER, JACK B. Music A.A., Norfolk Junior College B.M.E., M.M., Northwestern University
A.A., Norfolk Junior College
D.M.L., M.M., MORHIWESIETT OTHERSALI

THE FACULTY

C	AT AMCAM ADELATOR
G	ALAMGAM, ADELAIDA
	E.T.C., Ilocos Norte Normal School
	B.S.E., Central Philippine College M.S., Ed., University of Southern California
C	ADEC W DATE
G	ARES, V. DALE Dean of Admissions; Registrar
~	B.A., M.A., Adams State College ARTIN, HERBERT
G	ARTIN, HERBERT Psychology, Guidance
_	B.A., M.Ed., University of Arizona ENTRY, GLENN A
G	ENTRY, GLENN A Work Experience Coordinator
	BS New Mexico State University
	M.S., University of Arizona RIFFIN, WILLIAM A. Business
G	RIFFIN, WILLIAM A. Business
	B.S., University of North Dakota
	M.A., Colorado State College
H	B.S., University of North Dakota M.A., Colorado State College AMMOND, JAMES
-	B.S., Arizona State College
	M A Mashau Adam tining
H	ANEY, GLENN H. Financial Aids Counselor
	B.A., Colorado State College
	M.A. Adams State College
н	M.A., Adams State College ANN, RICHARD K. Philosophy
**	A.R. Chica State College
	M.A. San Francisco State College
H	A.B., Chico State College M.A., San Francisco State College AUER, ROYAL English
**	B.A., UCLA
	M.A., San Fernando Valley State College
H	AWKINS, DOROTHY J Vocational Nursing
11	P.N. Marris Callage of Number
ч	R.N., Mercy College of Nursing EBERT, ROGER
11	B.A., American International College
	M.A. Roston University
u	M.A., Boston University ILLHOUSE, ROSANNE R. English
11	Chairman of Division of English
	Chairman of Division of English
ы	B.A., M.A., Oxford University INSHAW, A. J
11	Chairman of Division of Mathematics and Engineering
777	BS., M.S University of Southern California
TE	RGE, MICHAEL J
1	B.A., M.B.A., University of Arizona
70	D.A., M.D.A., University of Arizond
10	DHNSON, JEAN Physical Education
	B.A., University of Kentucky
K	ELSOE, LEON Physical Education
	B.A., M.Ed., Whittier College
K	OSKI, RAUHA K Chairman of Division of Nursing
1	R A Northern Michigan University
	B.A., Northern Michigan University M.N., Yale University School of Nursing
T	ANFORD, CONWAY
-	ANTOND, CONWAICounselor
	A.B., Fresno State College
	B.A., M.A., San Francisco Theological Seminary M.Ed., University of Nevada
173	ADCCON LABOUD I
	ARSSON, HAROLD J Astronomy, Mathematics
	B.S., M.A., Columbia University Ed., M., Harvard University
	Ed., M., Indivard University

THE FACULTY

LEONARD, THOMAS	Psychology
B.S., M.S., R.P.I. of William and Mary Co LEPTICH, DEAN A Dean of Stud	ollege dent Personnel Services
B.A., M.A., San Diego State College LEWIS, STANLEY Agriculture	Automotive Technology
B.S., M.S., New Mexico State University LOPEZ, HECTOR B.A., M.A., Northern Arizona University	
LOWE, JUANITA	Art
B.S., M.A., Western Carolina College	
B.A., Texas Women's University M.S., University of Utah MELLINGER, ELWOOD J.	
B.S., M.A., Michigan State University	
MOORE, ERNEST B.S., University of Maryland	Business
M.B.A., University of Chicago MOORE, ROBERT Associate	Superintendent-Business
B.S., Auburn University M.A., Fresno State College	
MURANO, ORLANDO B.A., M.A., UCLA	Spanish
B.A., M.A., UCLA NOVAK, RUTH V. A.A., Los Angeles Junior College	Psychology
ORENSZTEIN, ARMAND	
B.S., University of Illinois M.A., University of California at Riversid ORTEGA, ALICIA Q.	le Camalah
B.A. M.A. Son Diego State College	
OVERMAN, RUTH	business
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PENDLEY, JIMMY R. BS MS Son Diego State College	
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B.S., M.A., University of Nevada RICE, PAULINE BENOIT	Franch Francish
B.A., Rice University M.A., Baylor University	riench, English
RICHWINE, HAROLD J., JR.	
B.S., Shippenburg State College M.S., Bucknell University	(W
RUDOLPH, WILLIAM D Director of B.S., M.B.A., Indiana University	
B.S., M.B.A., Indiana University SAMSON, WALTER L., JR Chairman of Division of Social Science	History
B.S., Wisconsin State College M.A., University of Wyoming	

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B.S., Indiana University M.S., De Paul University SCOTT CARMEN English
SCOTT, CARMEN English B.A., M.A., University of Texas SLEVIN, KATHLEEN Vocational Nursing
R.N., Mercy College of Nursing SLEVIN, LEONARD
B.S., M.S., UCLA SPEER, WILLIAM R. English A.B., University of Chicago
M.A., Los Angeles State College SPENCER, TERREL
B.S., University of South Mississippi M.A., Peabody College
Ph.D., University of Chicago STANDIFORD, SANDRA Counselor B.A., University of Missouri at Kansas City
M.S., California State College at Los Angeles STONE, JAMES R. Music
Chairman of Division of Humanities R.F. University of North Carolina
B.M., Westminster Choir College M.M., University of Southern California SWANN, MARIE B. English B.S., Ed. M., University of Oklahoma
THOMPSON, BLAINE R Business
Chairman of Division of Business B.S., M.S., University of Utah THODNELDE WILLIAM I
THORNBURG, WILLIAM J. Business B.A., University of Redlands UPSON, JOHN F. English
B.A., M.A., University of Nebraska WALKER, JAMES D Director of Evening College
B.S., Minot State College M.S., North Dakota State University WASSON, HENRY S
M.B.S., University of Nebraska M.B.S., University of Colorado
WEISSMAN, HARRY M. English
M.E., West Texas State College WHITE, HOWARD Law Enforcement California Highway Patrol (Ret.)
WHITE, RAY A
A.A., Antelope Valley Junior College A.B., Fresno State College
WILHELM, ROBERT
WILSON, PATRICIA English B.A., University of California at Santa Barbara WISBROCK, ROLLIE Speech
B.A., M.A., San Diego State College

THE COLLEGE

LOCATION

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

The campus is located on a 160 acre site at the intersection of Highway 111 and 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 community college for lower-division college work.

During its forty-five years of service to residents of Imperial Valley, the community college movement has grown from two small colleges, organized by two high school districts, to a county-wide community 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 community 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 community 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 schools or unified school districts represented in the area served by the Imperial Junior College District.

This District includes all of Imperial County except a small area in the northwest corner of the County which 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.

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 archi-

tectural 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 January 13, 1971, the Board of Trustees, in conjunction with recent legislative action, changed the name of the District to Imperial Community College District in order to further emphasize the close relationship the college has with its service area.

FACILITIES

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.

Through the judicial use of available tax funds and state aid a multi-purpose building, comparable to any such junior college building in the state, was constructed. It was designed to house sporting, musical, lecture and dramatic events. It was completed in April, 1967.

Located in the center of the campus, the library functions as as integrated instructional materials center having a great variety of books and non-book materials. It has over 24,000 fully cataloged volumes, subscriptions to over 300 periodicals and newspapers, magazine indexes, pamphlet files containing much transitory, ephemeral materials; and a growing collection of magazine issues on microfilm. New materials are being added regularly.

It also houses a variety of audiovisual equipment and materials, circulates audiovisual equipment throughout the campus, has collections of slides, tapes, filmstrips, phonograph records, and multi-media kits that are used in the library and on campus.

All materials are available for students, faculty, and community use within the library building and much can be circulated for personal and home use.

OBJECTIVES AND PHILOSOPHY

A public community college serves as an apex to the locally controlled public education program. It provides an effective means of strengthening and advancing the basic ideals of democracy.

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

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

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

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

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

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

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

The best college program for today is likely to be 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 concerning occupational programs.

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

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

- Exercising the privileges and responsibilities of democratic citizenship through the study of the Constitution of the United States, American History, and State and Local Government; and by participation in Student Government and the broader society.
- Developing sound moral and spiritual values by which he guides his life as emphasized throughout the college curriculum and included as an integral part of all college classes.
- Expressing his thoughts clearly in speaking, writing, reading and in listening with understanding through participation in English classes, speech classes, and in classes formed to develop special study skills; and as practiced in all instructional situations.
- Using basic mathematical skills necessary in everyday life as studied in mathematics classes.
- 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.
- 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.
- 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.
- 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, a variety of courses are offered. Some will equip a student with job entry level skills, other courses provide general education for all students to assist them in living meaningful and productive lives in a complex society. Still other types of courses provide the basis for professional training offered by four-year colleges and universities.

Regardless of the interests of the students, the first two years of college work normally can be completed at 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 instruciors 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. The student plans ahead, sets up his goal, and systematically includes those courses of study that will be of the greatest benefit to him.

Many of the needs of the student who seeks employment at the end of the sophomore year can be met by a variety of occupational courses. In addition to offering a breadth of education they meet specific needs in the shortest possible time in preparing the student for a field of employment.

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

The community 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.

Coordinated with the general divisions of courses at the college are three programs 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.

The Evening College

The Evening College, which is composed of regular college classes that meet at night, offers an opportunity to work for the Associate in Arts degree or Associate in Science 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 counselor, in a surprisingly short time the goals they establish in the field of higher education can be attained through the Evening College.

Work-Experience Program

Coordinated with some courses of study, Imperial Valley College offers a Work-Experience 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. Students can earn units toward community college graduation if they make satisfactory progress and if the work is related to their occupational goals.

Honors Program for 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.

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.

For information relating to the Honors Program, contact the Counseling Office.

Concurrent High School and College Enrollment

The students will spend a minimum of four periods in high school. The physical education requirements will be met within that four period schedule. Students are restricted to a spectator's role in college student activities, and extracurricular participation is to be confined to the high school. Counseling is available at the college, but every effort will be made to leave this responsibility to the high school counseling staffs.

The cost of participation will be assumed by the students and their parents. There is no tuition or other fees and the students are not eligible to join the Imperial Valley College Associated Students. Transportation provisions are to be made by the student.

DEGREES

The Board of Trustees, on recommendation of the president and faculty of the college, is authorized in accordance with Article 12, Section 102, of the State Administrative Code, Title 5, to confer the Associate in Arts (A.A.) and the Associate in Science (A.S.) degrees. Conditions under which the degrees are granted are outlined in the section on graduation requirements.

The community college degree is awarded to a student who fulfills a two-year organized program of work, either of an occupational-vocational-technical type or of a lower-division four-year college type. 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.

"With Honors" 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:

- 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.
- 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:

- 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.

FINANCIAL AIDS

Imperial Valley College believes that no student who has the ability to profit from instruction should be denied an education because he lacks financial means.

There are several types of aid available to needy, deserving students each year. This assistance is made available by the College District, State, Federal, civic groups, and individual citizens.

The college participates in the following Fedaral financial aids programs:

- 1. Federally insured loan program.
- 2. Education Opportunity Grant (E.O.G.)
- Federal Work Study.

In addition to the federal programs, there is aid available from the state and local district in the form of scholarships, work study grants and loans.

Further information regarding financial assistance may be secured from the Financial Aids Counselor.

EXPENSES

There is no tuition charge for full-time students who are legal California residents. Tuition for foreign students and for students who are legal residents of other states is \$30.00 per unit to a maximum of \$900.00 per academic year. Tuition for California adults taking fewer than 10 units is \$2.50 per unit,

Expenses normally incurred by all students are for books, supplies, and Associated Student Card. These expenses average approximately \$70.00 a semester, but vary depending upon the courses that are taken.

The full time student body card, which costs \$10.00 per semester, admits the student to all regular athletic activities of the college, pays for the school paper; gives voting privileges and the opportunity to hold office; permits the use of the student store and lounge area; and permits application for membership in campus clubs and organizations, all of which are part of the Associated Students' organization. A student who registers for nine and a half units or less purchases a special Associated Student Body Card for \$2.50 per semester entitling him to similar privileges except holding office.

ACCREDITATION

The college is officially accredited by the Accrediting Commission for Junior Colleges, Western Association of Schools and Colleges; and the State Department of Education. The University of California and other colleges and universities give full credit for transfer courses completed here.

COUNSELING AND GUIDANCE SERVICE

It is the aim of Imperial Valley College to provide all students with pertinent information which they will need in the formulation of their goals and objectives and to assist them in making the most of their potentialities and training. Counseling is made available by professional counselors, well-skilled and trained in the areas of academic, vocational, and personal counseling. The Counseling Center is located in the administration building and students are requested to contact the counseling office at any time between the hours of 8:00 a.m. and 4:00 p.m.

Counseling services are also provided by the Evening College for those students who need assistance. The Counseling Center is open in the evening between the hours of 6:00 and 8:00 p.m.

STUDENT ACTIVITIES

Student affairs are governed by the Associated Students of Imperial Valley College.

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.

STUDENT PUBLICATIONS

The college newspaper is published weekly throughout the school year by student members of the staff. It presents articles and news items about college activities and affairs.

BOOKSTORE AND SNACK BAR

The college bookstore is maintained by the Associated Students through a lease arrangement with College Book Company. All college textbooks and necessary supplies are available. The Student Union Building contains a snack and coffee bar which provides refreshments and meals for the students.

ATHLETICS

The college is a member of the Desert Conference, consisting of Barstow, College of the Canyons, College of the

Desert, Mira-Costa, Mount San Jacinto, Palo Verde, Victor Valley and Imperial Valley. The Desert Conference is a part of the Southern Section of the California State Junior College Association. Intercollegiate competition is held in football, basketball, wrestling, golf, track and cross country.

ATHLETIC ELIGIBILITY

Conference eligibility rules provide that to participate in interscholastic sports, the student must have satisfied the following requirements:

- Must have begun regular attendance not later than the end of the registration period as specified in the college catalog (no later than first week).
- 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. Physical education activity courses including athletics may not be included in the 10 units of work required.
- 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. Physical education activity courses including athletics may not be included in the 10 units of required work.
- Must be a high school graduate, or at least 19 years of age by August 31 of the year he enters junior college.
- 5. Must be in good standing.

A student who is not an IVC District high school graduate may not be granted eligibility unless he has met the following requirements:

- 1. Resides with his parents whose legal address is in the IVC District and has petitioned the conference for a bonafide change of residence (under 21 years of age).
- 2. Twenty-one years of age (or married minor), before the first day of classes, may establish residence for purposes of athletic eligibility provided he has continuously resided in the IVC District for the prior calendar year. An athlete 21 years of age who has not lived in the IVC District for one year may petition the conference for eligibility.

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 register for eight or more units of work in a given semester or upon an accumulation of eight or more units, are required to (1) submit a transcript of all work taken in high school and a transcript of any advanced work that has been completed, and (2) they are required to take the college placement tests which include English and mathematics achievement tests, unless they have completed regular college courses in both English and mathematics.

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

- l. Admission of **High School Graduates.** Graduates of four-year high schools are eligible for admission. A transcript of the secondary record must be filed with the college and evaluated by the admissions officer.
- 2. Admission of **Non-Graduates of High School.** Any other person eighteen years of age or over may apply for admission to the college. Admission in such cases is governed by the person's seriousness of purpose and whether in the judgment of the 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 occupational program, or in courses that will complete requirements for a high school diploma, which, on recommendation of the college, may be granted by a cooperating high school.

Non-high school graduates are automatically admitted on a provisional status for the first semester. This status is removed on the completion of 12 units of work in which a grade of at least 2.0 has been earned.

- 3. 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 "Honors Program for Talented High School Seniors.")
- 4. Admission of **Students with Advanced Standing**. Applicants who have attended other colleges may be admitted with advanced standing. Before admission and advanced standing

can be granted, such students must present for evaluation transcripts of their high school records, together with transcripts of their college records, and honorable dismissals from the institutions last attended.

Students applying for admission with advanced standing are subject to the same regulations governing probation and academic dismissal that apply to students in attendance at Imperial Valley College.

- 5. 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 \$30.00 per unit, not to exceed a total of \$900.00 per academic year, is charged out-of-state students.
- 6. Admission of **Foreign Students.** Foreign students may be admitted to Imperial Valley College if they meet the requirements of admission and if they have achieved sufficient mastery of the English language, as evidenced by their scores on entrance examinations, to participate in and profit from college class work. Tuition of \$30.00 per unit, not to exceed a total of \$900.00 per academic year, is charged.

TRANSCRIPTS

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

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

- 1. All students taking eight or more units per semester,
- 2. All students who have accumulated 8 semester units.
- 3. All students who are working toward the A.A. or A.S. degree,
- 4. All foreign students,
- 5. All other students when requested to do so by the administration or by the counselor.

RESIDENCE REQUIREMENTS

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

Residents of any part of the State not included in another junior college district who meet entrance requirements will be admitted upon filing the credentials described under Admission Requirements. Applicants from another California district maintaining a junior college may not be admitted unless they have been granted an inter-district permit. Some California districts require an inter-district permit before permitting their district students to attend another community college district.

DEFERMENT OF STUDENTS UNDER SELECTIVE SERVICE REGULATIONS

To be eligible for a deferment from military service, a student must make normal progress toward a degree. Normal progress signifies that a student must successfully complete a minimum of 30 units each school year. It is necessary that each student requesting a deferment file a Selective Service Form (SS 109) with the Registrar at the beginning of each semester. Students who need advice in this area are urged to secure further information from their counselors or their local draft boards.

STUDY LIST LIMITATIONS

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

A student who is currently enrolled in another school or college (including correspondence school) must report this enrollment to the Registrar. The total number of units carried during a semester may not exceed the above limits.

CHANGES IN CLASS SCHEDULES

It is expected that a registration schedule not be worked out on a trial basis; therefore, the student is expected, at the time he files his registration with the Registrar, to make no further change. If a change must be made, students may add classes within a designated period at the beginning of each semester for the following reasons:

- 1. Unable to rectify an error in their original program due to circumstances beyond their control.
- Asked to replace a class for which their background is not appropriate with a class of higher or lower level in the same subject area.
- 3. Change must be made because of a class cancellation for lack of sufficient enrollment.

Changes will be made by obtaining an Add Card and approval of the instructor and then filing the change with the Registrar's Office. No student may add after the last day of the change period.

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.

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

1. GRADES

- A Superior
- B Better Than Average
- C Average
- D Passing
- F Failing

Inc. Incomplete

UNFINISHED WORK, OTHERWISE PASSING indicating that an important assignment such as a term paper, final examination, or experiment is missing, or for medical or other sufficient reason. Removal of an incomplete establishes what ever 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. CREDIT GRADE

Courses designated by the appropriate divisions may be taken in which Cr grades may be given. The student must declare his intentions to the instructor by the seventh week of the semester.

- a. Cr will reflect a letter grade of C or higher.
- b. NCr will reflect incompletion of a credit class.
- c. Cr grades are permissable except in the student's major field at Imperial Valley College.
- d. Students applying for Cr must adhere to the same class standards or regulations as a student receiving a regular grade.

- e. A maximum of 12 units toward Imperial Valley College graduation may be taken on this basis with a limit of one class per semester.
- f. Cr grade will satisfy completion of prerequisite for sequence class.

3. WITHDRAWAL GRADES

W Withdrawal

W/P Withdrawal, passing

W/F Withdrawal, failing

A student may withdraw from any course or the college during the first fifteen weeks of the semester, but in order to avoid grade penalties he must make formal application to the registrar.

Any instructor may withdraw a student during the first fifteen weeks for excessive absences or for disciplinary reasons. Any withdrawal initiated by an instructor will be noted on the transcript as an unofficial withdrawal.

Grades at the time of withdrawal under either circumstance will be assigned in accordance with the following schedule:

Weeks of Semester	Grade
1 through 6	W
7 through 14	WP or WF
15 through 18	F

After the fourteenth week grades of F will be given irrespective of the grades then being earned, unless it can be demonstrated that extenuating circumstances such as an incapacitating illness or injury or moving from the community exist. Under such circumstances the student may petition the Petitions Committee for withdrawal with grades of WP or WF whichever is appropriate. Such petitions must be presented in person when possible, or by mail, and in all cases must be accompanied by prima facie evidence supporting the reason for withdrawing.

The letter U preceding withdrawal grades indicates the withdrawal was initiated by the instructor and not by regular petition.

4. REPEATED CLASSES

Procedures for repeated classes:

a. Students wishing to repeat a class in which they have received a grade of D or F must obtain a request

form and supply their name, the class being repeated by code number, and the instructors name to the Dean of Admissions by the 12th week of the semester for which he wishes to receive credit for α repeated class.

b. From the forms submitted by the student, the Registrar's Office will record an R by the letter grade given by the instructor. If a student does not file a form, the grade & units in the previous & present class will be used in computing total units and grade point average.

5. 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

Cr - 0 grade points per unit;

units not charged against the student

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

UWF or 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.

6. CREDIT BY EXAMINATION

A student may petition to take an examination in lieu of course work. A maximum of 25 units may be acquired in this fashion. No more than 15 units per semester will be authorized. The fee will be \$10.00 per unit plus \$5.00 for administrative costs for each examination administered. Students wishing to take advantage of this opportunity should request the proper petition form from the Registrar's Office.

7. MILITARY CREDIT

"A guide to the Evaluation of Educational Experiences in the Armed Services, American Council on Education," former or current edition, is used to evaluate military school credit and credit is considered by petition and presentation of proper documentation by the Petitions Committee or demonstration of skill through credit by examination for technical vocational credit.

SEMESTER GRADE REPORTS

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

PROBATION

A student is placed on academic probation if his grade point average for the units designated for a student in his status (see below) is less than 2.0. The probationary status is entered on the permanent record of the student.

Status

A full-time student at Imperial Valley College

A student transferring to Imperial Valley College

A part-time student who has attempted in any college or university, or grades 13 or 14 of a junior college, a total of 12 semester units (or equivalent of guarter units)

Units Designated

Units attempted at Imperial Valley College during the semester immediately preceding.

All units previously attempted in any college or university and in grades 13 and 14 of junior college

All units so attempted

A student on probation from another institution shall be placed on probation on entrance.

No student shall be subject to probation until he has attempted a minimum of 12 units in one semester or sequence of semesters.

Summer session grades, as well as grades from regular semesters or quarter sessions, shall be considered in the establishment of probationary status.

A student on probation is required to hold periodic conferences with his counselor. The counselor may regulate the student's program according to his aptitudes and achievements.

Regular status can subsequently be attained by a student on probation by his attempting 12 or more units in a semester or sequence of semesters and achieving a 2.0 or better grade point average.

All actions taken by college authorities relating to academic probation become a part of the student's permanent record.

PROVISIONAL STATUS

A first-time freshman who is enrolled in more than six units who falls into one of the categories listed below shall be admitted on provisional status:

1. His grade point average in the last three years of high school was less than 2.0 (grade C on a five-point scale with zero for an F grade) excluding only physical education and military science.

A = 4.0

B = 3.0

C = 2.0

D = 1.0

F = 0

2. He is not a high school graduate.

A student on provisional status shall develop with his counselor a course of study commensurate with his ability. He is required to hold periodic conferences with his counselor and his program may be regulated by his counselor according to his aptitudes and achievement.

Provisional status is removed when the student has successfully completed 12 units of work.

WITHDRAWAL — DISMISSAL POLICIES Attendance and Automatic Withdrawals

A student who fails to attend the first meeting of a class will be dropped by the instructor immediately following that class. Should he desire readmission to the class his status will be the same as that of any other student who desires to add a class.

Regular attendance at all classes is expected of all students enrolled. Instructors are expected to take a student's attendance record into account in computing his grades. A student may be excluded from further attendance in a class during any semester when his absences after the close of registration have exceeded the number of class hours which the class meets per week. Further, an instructor may drop any student judged to be a disturbing element in the class.

A student who is tardy three times may be considered as having been absent once. Absences attributed to the representation of the college at officially approved conferences and contests and attendance upon field trips will not be counted as absences.

Voluntary Withdrawal

A student who is required to withdraw from college because of extenuating circumstances must contact the Registrar for the procedures to be followed. See: "Withdrawa" grades."

Academic Dismissal

A student who is in attendance at Imperial Valley College who has a grade point average of less than 1.75 for units attempted (regardless of number) in each of three consecutive semesters is subject to dismissal.

College because of low academic achievement may, after one full semester, apply for readmission to the college. His application will be reviewed by the administration, and if readmission is granted, he will be subject to all conditions specified including probationary status.

A student applying for admission to Imperial Valley College who has a grade point average of less than 1.75 for units attempted (regardless of number) in each of the last three semesters attempted (or any combination of semesters and/ar quarters which are as long as three semesters) will not be activity class and who seeks to be excused for medical reasons granted permission to register until (1) a period of time equal to a full semester has elapsed since he attended college, and (2) his petition for admission has been reviewed by the administration. If admitted, he will be subject to all conditions specified including probationary status.

All actions taken by college authorities relating to accompany demic dismissal become a part of the student's permanent record.

Any exceptions to the regulations adopted pertaining to probation and academic dismissal will be granted only after review by the Petitions Committee. Each case will be considered individually and disposition made after the consideration of all available pertinent information.

PHYSICAL EDUCATION

State law requires that every physically able student enrolled for more than 8 units, regularly attend a physical education class each semester until credit for four semesters has been earned.

The student must provide himself with a uniform as prescribed by the physical education department.

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

- (1) Physical disability
- (2) Age, twenty-one or over
- (3) Postgraduate standing
- (4) Enrollment in 8 or fewer units
- (5) Completion of basic or recruit training in any of the Armed Forces of the United States. College credit may be granted (P.E. 16A-D, H.E. 3). See counselor.

Those applying for exemption for reasons other than A student who has been dismissed from Imperial Valley physical disability must present suitable evidence at the time of their registration.

> A student who is dropped from physical education for nonattendance or for failure to perform in a responsible way will be required to withdraw from all classes in which he has been officially enrolled, or at his option, the student may reduce his study list to not more than 8 units. At the time of mandatory withdrawal, grades to be awarded will be W/P or W/F depending upon progress to date in classes affected.

> A student who is legally required to be enrolled in an will not be excused unless he presents to the Registrar at the time of completing registration (filing of study list) a statement over the signature of his physican or the county health officer specifying that he is unable to participate in an activity class. The physician shall also indicate the nature of the infirmity and its probable duration. A new statement shall be required at the beginning of each semester.

CHANGES IN THE CATALOG

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

A student may graduate under the catalog in effect at the time of his initial enrollment, provided he maintains a continuous enrollment status during each semester (excluding summer sessions) of not less than six units of work in which passing arades are earned.

GRADUATION REQUIREMENTS

ASSOCIATE DEGREES

Upon the completion of the following requirements, students at Imperial Valley College will be granted the degree, Associate in Arts or Associate in Science, depending upon the major completed. Responsibility for filing a petition for graduation rests with the student. This petition is to be filed with the Registrar not later than the end of the 6th week of the semester of 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. ACQUISITION OF MAJOR CONSISTING OF TWENTY UNITS (UNLESS OTHERWISE DESIGNATED) IN A SPECIFIED FIELD OF STUDY

Students may satisfy the major requirement in the following lowing fields of study. Individual courses of study for each major are listed beginning on page 114.

Accounting

Agriculture Business

Agriculture Chemical Technology

Agriculture Engineering

Animal Science

Art

Auto Technology

Behavioral Science

Bookkeeping

Business Administration

Business, General

Business Management

Cosmetology

Data Processing

Engineering

Engineering Technology

English

Fire Science

Foreign Language

General Clerical

General Major

General Science

Law Enforcement

Life Science

Marketing-Sales Technology

Mathematics

Music

Nursing-Registered

Nursing—Vocational

Physical Education

Physical Science

Plant Science

Recreation

Secretarial

Social Science

Soil and Water Technology

Teacher Aide

Welding

II. STATE AND INSTITUTIONAL REQUIREMENTS

- A. Sixty units plus physical education if required.
- B. Grade point average of 2.0 of all college work.
- C. Completion of a minimum of forty-five units in residence, or completion of at least the last fifteen units at Imperial Valley College.

III. SUBJECT AREA REQUIREMENTS

Courses in the specified field of study may be used to satisfy the requirements for III and IV.

- A. American Institutions Complete any of the following:
 - 1. Hist 17A-B United States History
 - 2. Poly Sci 1 Introduction to Political Science and Poly Sci 2 American Government and Politics
 - 3. Hist 17A United States History and Poly Sci 2 American Government and Politics
 - 4. Hist 17B United States History and Poly Sci 1 Introduction to Political Science
 - 5. Hist 8A-B History of the Americas
 - 6. Soc Sci 52 Introduction to American Government
- B. Health Education

H.E. 1 Health Education or H.E. 3 Health Education (for Veterans only).

- C. Two courses in communication no less than five units - English 1A or 51 and one of the following:
 - 1. Bus 11 Business Correspondence
 - 2. Bus 54 Essentials of Business Correspondence
 - 3. Eng 1B Introduction to Literature

- 4. Eng 43 Oral English for Bilingual Students
- 5. Eng 40Y English as a Second Language
- 6. Eng 47 Technical and Report Writing
- 7. Eng 53 Selected Literature
- 8. Sp 1 Public Speaking 9. Sp 51 Basic Speech
- D. Four semesters of physical activity if required. See: "Physical Education Exemptions," page 32.
- E. Mathematics competency demonstrated by appropriate examination or Math 51 Basic Mathematics

IV. GENERAL EDUCATION

- A. A minimum of one course in three of the following areas:
 - 1. HUMANITIES

Art 3A History and Appreciation of Art

Art 3B History and Appreciation of Art

Art 30A Introduction to Art Art 30B Introduction to Art

Eng 3A (Also Hum 3A) Introduction to Film Criticism Eng 3B (Also Hum 3B) Advanced Film Criticism

Drm Art 5A History of World Drama Drm Art 5B History of World Drama

Env Sci 5 (Also Ag 5) Man and His Environment

Fr 40 French Civilization Fr 41 French Civilization

Hum 25 The Humanities

Mus 7 Music Fundamentals Mus 30 Music Structure and Style

Phil 1A Introduction to Philosophy

Phil 1B Introduction to Philosophy

Phil 11 Ethics

Phil 25 Religions of the Modern World

Span 40 Spanish Civilization

Span 41 Spanish-American Civilization

Sp 11 Oral Interpretation

2. COMMUNICATIONS

Bus 11 Business Correspondence

Bus 54 Essentials of Business Correspondence

Eng 1B Introduction to Literature

Eng 53 Selected Literature

Eng 31 Creative Writing

Eng 32 Advanced Composition

Eng 33 Literary Artist as Social Critic

Eng 36 The Bible as Literature

Eng 15A American Literature

- Eng 15B American Literature
- Eng 16A Masterpieces of World Literature
- Eng 16B Masterpieces of World Literature
- Eng 17A Survey of English Literature
- Eng 17B Survey of English Literature
- Eng 43 Oral English for Bilingual Students
- Fr 1 Elementary French
- Fr 1AB Elementary French
- Fr 2 Elementary French
- Fr 3 Intermediate French
- Fr 4 Intermediate French
- Fr 10 Conversational French
- Fr 11 Conversational French
- Fr 52 Everyday French
- German 1 Elementary German
- German 2 Elementary German
- German 10 Conversational German
- German 11 Conversational German
- Hum 3A (Also Eng 3A) History and
 - Appreciation of Art
- Hum 3B (Also Eng 3B) Advanced Film Criticism
- Phil 10 Logic
- Span 1 Elementary Spanish
- Span 2 Elementary Spanish
- Span 3 Intermediate Spanish
- Span 4 Intermediate Spanish
- Span 10 Conversational Spanish
- Span 11 Conversational Spanish
- Span 51A Everyday Spanish
- Span 51B Everyday Spanish
- Span 21 Spanish for Bilingual Students
- Span 22 Spanish for Bilinguals

3. SOCIAL SCIENCE

- Anthro 1 Physical Anthropology
- Anthro 2 Cultural Anthropology
- Anthro 3 Introduction to World Prehistory
- Bus 6 Introduction to Business
- Bus 51 Orientation to Business
- Econ IA Principles of Economics
- Econ 1B Principles of Economics
- Geog 2 Cultural Geography
- Hist 4A History of Western Civilization
- Hist 4B History of Western Civilization Hist 10 History of Modern Russia
- Hist 30 Mexico and the American Southwest
- Poly Sci 3 Comparative Politics
- Poly Sci 14 Introduction to International Relations

Poly Sci 51 The Constitution in Action Poly Sci 53 Contemporary World Affairs Psych IA General Psychology Psych 1B Advanced General Psychology Psych 2 Introduction to Physiological Psychology Psych 3 Psychology of Personal and Social Adjustment Psych 52 Psychology of Effective Behavior Soc Sci 51 Introduction to American Society Soc Sci 53 Introduction to Economics Soc Sci 54 Introduction to Geography Social 1 Principles of Sociology Social 2 Contemporary Social Problems Social 33 Marriage and the Family

4. NATURAL SCIENCE

Ag 14 Introduction to Entomology Anat 18 Human Anatomy Anat 10 Human Anatomy and Physiology Astron 21 Elementary Astronomy Bio 3 Principles of Biological Science Bio 21 General Microbiology Bot IA General Botany Bot 1B General Botany Chem 1A General Inorganic Chemistry Chem 1B General Inorganic Chemistry Chem 2A Introduction to Chemistry Chem 5 Quantitative Analysis Chem 12 Organic Chemistry Engr 18A Plane Surveying Engr 72A Surveying for Engineering Technology Geog 1 Physical Geography Geol IA Physical Geology Geol 1B Historial Geology Geol 2 Introduction to Geology Math 2 Advanced Algebra and Trigonometry Math 3A Analytic Geometry and Calculus Math 3B Analytic Geometry and Calculus Math 4A Caluculus and Differential Equations Math 6 Linear Algebra Math 12 Elementary Statistics Math 17 (Also Bus 17) Mathematics for Business Analysis Math 18 Introduction to Mathematics

Nat Sci 51 Survey of the Earth Sciences

Phys 2A General Physics

Phys 2B General Physics

Phys 4A Principles of Physics

Phys Sci 25 Introduction to Physical Science

counted towards fulfilling requirements for both a major and General Education. Ag 25 Agricultural Business Management Ag 30 Agricultural Mechanics Ag 40 Soils Ag 42 Plant Science and Forage Crops Ag 48 Ornamental Shrubs and Trees Art 20A Elementary Drawing Art 22A Design Art 23A Ceramics Art 24A Ceramic Sculpture Art 26A Design in Crafts Art 27A Creative Handweaving Art 31 Crafts Auto Tech 51 Automotive Technology Auto Tech 71 Auto Tune-up Auto Tech 72 Engine Repair Bus 20 Alphabetic Shorthand Bus 21 Elementary Typewriting Bus 26 Elementary Shorthand Bus 40 Introduction of Data Processing Bus 50A Practical Bookkeeping Bus 52 Practical Salesmanship Bus 53 Applied Business Law Bus 55 Personal Income Tax Bus 62 (Also Soc Sci 62) Personal Finance Bus 63 Records Management Dra Art 20A Fundamentals of Acting Ed 1 Introduction to Education Eng 42A Survey of Journalism Engr 11 Fundamentals of Electricity Engr 81 Fundamentals of Electronics Engr 82 Intermediate Electronics H.E. 2 First Aid Law Enf 21 Survey of Law Enforcement Law Enf 32 Wildlife Law Enforcement Law Enf 37 Juvenile Control Mus 15A Elementary Voice Mus 21A Instruments Mus 50A Basic Recreational Piano P.E. 43 Elementary Games and Activities

Phys 4B Principles of Physics

Phys 4C Principles of Physics

5. SPECIAL INTEREST (No course in this group can be

Physio 1 Human Physiology

Zool IA General Zoology

Zool 1B General Zoology

Rec 70 Community Recreation Welding 30 Arc Welding Welding 32 Gas Welding

B. No course may be counted to fulfill the requirements in both III and IV.

CREDIT FOR CORRESPONDENCE AND EXTENSION COURSES

A student may petition to have a maximum of six units a credit counted toward graduation for correspondence or extension courses which meet the following standards:

- Courses must have been taken from a recognized accredited college or university having a correspondence or extension division.
- (2) Courses must be designated as recommended for lower division credit by the college or university.

It is the responsibility of the student to submit evidence establishing the above standards.

TRANSFER REQUIREMENTS

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

- 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.

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

Transfer Credit

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

OCCUPATIONAL CURRICULA

Imperial Valley College has developed career programs which reflect employment opportunities of our county and region. Advisory committees work closely with the college to assure each student the best in education and real employment opportunities upon graduation.

In developing a program based on one of the following majors, each student should plan on completing graduation requirements for the Associate in Arts or Associate in Science Degree. It is recommended that students should plan a broad educational background with general education courses in English, science, social science and humanities.

It is most important that students consult with a counselor during their first semester in preparing programs to determine the appropriate sequence of courses. Further, it should be noted that the final responsibility for the selection of proper courses rests with the student.

CERTIFICATES

Full-time students are normally scheduled into the A.A. or A.S. Degree programs. Occupational Certificates are awarded to convey evidence that well-defined levels of proficiency have been attained in designated occupational fields. Certificate programs are available in some of the occupational areas for which the college offers the Associate Degree. To qualify for an Occupational Certificate a student must:

- 1. Complete all courses listed for a particular certificate.
- 2. Achieve a C grade average (2.0 GPA) for all such college courses, and for all such courses taken a Imperial Valley College.
- Satisfactorily complete at least one required course at Imperial Valley College during the semester in which the certificate is earned.
- File α Petition for the Occupational Certificate not later than the sixth week of the semester in which require ments will be completed.

Certificates are offered in the following areas:

Automotive Technology

Business

General Clerical: (Receptionist, File Clerk, Small Business Records)

Clerk Typist

Secretary/Stenographer

Junior Bookkeeper-Payroll Clerk

Fire Science

Law Enforcement

Basic Library Technician

Real Estate

Nursing - Vocational

Welding

Requirements for certificates are listed on page 141.

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.

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

The prerequisites for any course may be waived by the instructor and the Dean of Instruction.

SUMMER SESSION

Summer Session calendar and admission requirements may be found in the Summer Session Bulletin or Schedule of Classes which is published during the Spring Semester.

AGRICULTURE

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

Ag 5 Man and His Environment (3)

3 hrs. Lec.

(Same as Env Sci 5)

Ag 14 Entomology (3)

2 hrs. Lec. 2 hrs. Lab.

A basic study of insects with emphasis on classification, anatomy and physiology, and ecology. An insect collection is required.

Ag. 20 Animal Science (3)

3 hrs. Lec.

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

Ag 21 Feeds and Feeding (3)

3 hrs. Lec.

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

Ag 22 Livestock Selection (3)

2 hrs. Lec. 2 hrs. Lab.

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

Ag 23 Animal Diseases (3)

3 hrs. Lec.

The symptoms, diagnosis and treatment of animal diseases.

Ag 25 Agricultural Business Management (3)

3 hrs. Lec.

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

Ag 26 Agricultural Business Organization and Management (3) 3 hrs. Lec.

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.

Ag 30 Agricultural Mechanics (3)

2 hrs. Lec. 2 hrs. Lab.

Selection and evaluation of production equipment. Study of specifications, plans, and construction of general agricultural equipment. Pipe work and electrical installations. Selection and grading of lumber and wood preservatives; cold and hot metal work; theory and testing of electrical motors; utilization and construction of agricultural facilities.

Ag 31-A-B Farm Machinery (3-3)

2 hrs. Lec. 2 hrs. Lab

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

Ag 32 Irrigation and Drainage (3)

2 hrs. Lec. 2 hrs. Lab.

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

Ag 33A Farm Power (5)

3 hrs. Lec

Field and shop practice in the operation, service and adjustment of the modern farm tractor.

Ag 33B Form Power (5)

3 hrs. Lec. 6 hrs. Lab

Prerequisite: Ag 33A (Same as Auto Tech 51). Review and advanced study of the internal combustion engine and service procedures in the use of automotive machine shop tools and machines for rebuilding the engine. Review the study and service procedure of the diesel fuel systems and governors. \$2.00 material fee payable during registration.

Ag 35 Fluid Power (4)

3 hrs. Lec. 3 hrs. Lab.

A study of the principles and laws governing fluids. The design and function of hydraulic and pneumatic components, seals, fluid types, circuits and symbols. Latest developments in the control and transfer of energy and its relationship to agricultural technology.

Ag 36 Agricultural Construction (3)

l hr. Lec. 3 hrs. Lab.

A study of the materials and processes most suited to farm situations. Practical concrete design, farm layout and fabrication.

Ag 37 Small Gasoline Engines (3)

2 hrs. Lec. 2 hrs. Lab.

The history, design, construction and mechanical function of the small gasoline engine, including tune-up and major repair of the electrical and mechanical systems.

Ag 38 Electricity on the Farm (3)

2 hrs. Lec. 2 hrs. Lab.

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Fundamentals of electric wiring; circuit layout and problems; motor and branch circuit protection; safe use of electricity; wiring the farmstead; and motor maintenance.

Ag 40 Soils (3)

3 hrs. Lec.

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

Ag 41 Fertilizers (3)

3 hrs. Lec.

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.

Ag 42 Plant Science and Forage Crops (4)

3 hrs. Lec.

Principles and practices of crop improvement, propagation, production, processing, storage, and marketing. Production, harvest and utilization of principal California forage crops. Field laboratory work required.

Ag 43 Field and Cereal Crops (4)

3 hrs. Lec. 3 hrs. Lab.

Principles and practices of field and cereal crops production and soil management, including study of distribution, adaptation and utilization of the major field and cereal crops. Field laboratory work required.

Ag 45A-B Truck Crop Production (3-3)

2 hrs. Lec. 2 hrs. Lab.

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

Ag 48 Ornamental Shrubs and Trees (3)

3. hrs Lec.

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

Ag 49 Weeds and Poisonous Plants (3)

3 hrs. Lec.

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

Ag 65 Control of Insects and Other Petst (3)

2 hrs. Lec. 2 hrs. Lab.

Identification and methods of control of principle insect, rodent, disease, and other pests of crops. Use of pesticide application equipment. Health hazards in use of pesticides.

ANATOMY

Anat 8 Human Anatomy (4)

2 hrs. Lec. 6 hrs. Lab.

Prerequisite: High school biology with α C or better or Zoology 1A or Biology 3. Systems of the human body and their interrelationships.

Anat 10 Human Anatomy and Physiology (5) 3 hrs. Lec. 6 hrs. Lab.

Prerequisites: One year of high school chemistry and biology or one semester of each at the college level. A study of the structure and function of the human organism. Emphasis is on the circulatory, respiratory, excretory, nervous, reproductive, and digestive systems.

ANTHROPOLOGY

Anthro 1 Physical Anthropology (3)

3 hrs. Lec.

An introduction to the study of evolution and racial variation in man. Emphasizes the processes of evolution, the relationship of man and the animals, fossil man, and the origin and meaning of race.

Anthro 2 Cultural Anthropology (3)

3 hrs. Lec.

An introduction to the nature of culture, especially as seen in primitive society. Includes such topics as cultural history, the process of culture, technology, social organization, language, religion, and personality. May be taken before Anthropology 1.

Anthro 3 Introduction to World Prehistory (3) 3 hrs. Lec.

A survey of the major cultural achievements of mankind prior to recorded history in the areas of Europe, Asia, Africa and the Americas, and the contribution of archaeology to anthropology, history, and the development of art. Outstanding investigations are used to illustrate currents in human culture history.

ART

Art 3A-B History and Appreciation of Art (3-3) 3 hrs. Lec. Either semester may be taken separately. Art 3A is a survey of the developments in art in painting, sculpture, architecture, and the minor arts from the birth of art to the Renaissance. Art 3B extends from the Renaissance to contemporary times.

Art 20A-B Elementary Drawing (3-3)

6 hrs. Lab.

Prerequisites: Art 20A — none; Art 20B — Art 20A. A basic course in drawing involving analysis of lines, form, tone, texture and colors as essential media of expression.

Art 21A-B Intermediate Drawing and Painting (3-3)

6 hrs. Lab.

Prerequisites: Art 20A-B. A continuation of the development of composition and the various techniques employed in drawing and painting. Includes figure drawing, landscape, and still-life. Painting covers styles of painting from the Neo-Classic to the present day.

Art 22A-B Design (3-3)

2 hrs. Lec. 3 hrs. Lab.

Prerequisites: Art 22A — none; 22B — Art 22A. Fundamentals of design and composition; theory of color. Includes organization and utilization of basic elements through design problems.

Art 23A Ceramics (3)

6 hrs. Lab.

An introduction to ceramics; basic methods of forming, decorating, glazing and firing.

Art 23B Ceramics (3)

6 hrs. Lab.

Prerequisite: Art 23A. A continuation of Art 23A with an emphasis on the work on the potter's wheel.

Art 23C Ceramics (3)

6 hrs. Lab.

Prerequisite: Art 23B with α C or better. A continuation of Art 23B with special emphasis on glaze formulating and decorating techniques.

Art 24A-B Ceramic Sculpture (3-3)

6 hrs. Lab.

A course in basic ceramic sculpture techniques with emphasis on the human form.

Art 25 Life Drawing (3)

6 hrs. Lab.

Prerequisites: Art 20A-B with a grade of C or better. Many types of drawing and painting techniques are used to further the student's skill and development of visualization by drawing from the human figure.

Art 26A Design in Crafts (3)

6 hrs. Lab.

Prerequisite: Art 22A. An introduction to the study of several traditional crafts with an emphasis on creative design and individual exploration. Experiences in metal jewelry, batik and tie-dye, printmaking, fibers, sand casting and enameling.

Art 27A Creative Handweaving (2)

6 hrs. Lab.

An exploratory course structured as an introduction to the craft of non-loom weaving. Its emphasis is on the exploratory and traditional techniques. Experiences in the design and structure of wall hangings, tapestries, rugs, body ornaments and accessories will acquaint the student with basic weaving techniques, fibers and ancient and modern hand looms. Additional study in spinning and dyeing yarns.

Art 30A Introduction to Art (2)

1½ hrs. Lec. 1½ hrs. Lab.

An exploratory course intended for non-art majors; provides a basis for an understanding of the fundamental art principles. Offers experience in creative expression.

Art 30B Introduction to Art (2)

1½ hrs. Lec.1½ hrs. Lab.

Prerequisite: Art 30A. A continuation of Art 30A which is an exploratory course intended for non-art majors; provides a basis for an understanding of the fundamental art principles. Offers experience in creative expression.

Art 31 Crofts (3)

2 hrs. Lec. 3 hrs. Lab.

A basic craft course exploring the use of art materials, media, techniques and methods. Recommended for students planning to become elementary teachers or recreation directors.

Art 35 Display and Advertising Techniques (2) 1 hr. Lec. 3 hrs. Lab.

Prerequisite: Art 22A. A study of commercial art techniques. Lettering, layout, poster design. Advertising design and window display.

ASTRONOMY

Astron 21 Elementary Astronomy (3) 3 hrs. Lec.
Prerequisite: Completion of the Mathematics 51 requirement. An introductory survey course in the general principles and the fundamentals of astronomy with emphasis on the solar system.

Astron 22 Intermediate Astronomy (3) 3 hrs. Lec.

Prerequisite: Astronomy 21, Math X, Math Y, or the consent of the instructor. A second semester course in astronomy with emphasis on the stars, their properties, and evolution, galaxies, cosmology, relativity.

AUTOMOTIVE TECHNOLOGY

Auto Tech 51 Automotive Technology (5)

3 hrs. Lec. 6 hrs. Lab.

For the student with little or no automotive background. Design, construction and mechanical function of automobile engines including lubricating, cooling, fuel and electrical systems; clutches; and an understanding of the basis sciences relevant to such topics as internal combustion and energy conversion. \$2.00 material fee payable during registration.

Auto Tech 52 Transmission Systems (3)

2 hrs. Lec. 3 hrs. Lab.

Prerequisite: Auto Tech 51 or two years of high school auto mechanics. Design, construction and mechanical function of clutches, overdrives, manual transmissions, automatic transmissions and power-transmitting mechanisms. \$2.00 material fee payable during registration.

Auto Tech 53 Brakes and Suspension (3)

2 hrs. Lec. 3 hrs. Lab.

Prerequisite: Auto Tech 51 or two years of high school auto mechanics. Study of manual and power braking systems, wheel alignment, spring suspension, tires, tire truing, wheel balancing, and wheel bearings. Diagnosis and services procedures on repair jobs. \$2.00 material fee payable during registration.

Auto Tech 54 Electrical and Fuel Systems (3) 2 hrs. Lec. 3 hrs. Lab.

Prerequisite: Auto Tech 51 or two years of high school auto mechanics. Advance study of automotive fuel and electrical systems. Basic diagnosis and service procedures on systems. \$2.00 material fee payable during registration.

Auto Tech 55 Gasoline and Diesel Engines (4) 3 hrs. Lec. 6 hrs. Lab.

Prerequisite: Auto Tech 51 or two years of high school auto mechanics. Review and advanced study of the internal combustion engine and service procedures in the use of automotive machine shop tools and machines for rebuilding the engine. Review the study and service procedure of the diesel fuel systems and governors. \$2.00 material fee payable during registration.

Auto Tech 56 Diagnostics (3)

2 hrs. Lec. 3 hrs. Lab.

Prerequisite: Auto Tech 51 or two years high school auto mechanics. Trouble shooting the various components of the automobile using the oscilloscope and dynometer and other precision instruments. To include refrigeration and the study and servicing of the various automotive smog devices.

Auto Tech 57 Fluid Power (4)

3 hrs. Lec.

A study of the principles and laws governing fluids. The design and function of hydraulic and pneumatic components, seals, fluid types, circuits and symbols. Latest developments in the control and transfer of energy and its relationship to automotive technology.

Auto Tech 58 Automotive Air-Conditioning (3) 2 hrs. Lec. 3 hrs. Lab.

Prerequisites: Automotive Technology 54 or two years high school auto mechanics. The course is designed to impart knowledge and information needed by the learner to enter and make progress in employment on a productive basis in the automotive air-conditioning service industry.

Auto Tech 71 Auto Tune-Up (3)

2 hrs. Lec. 2 hrs. Lab.

The study of design, construction and mechanical function of automotive engines including lubricating, cooling, fuel and electrical systems, clutches, and an understanding of the basic sciences relevant to such topics as internal combustion, electricity, and energy conversion.

Auto Tech 72 Engine Repair (3)

2 hrs. Lec. 2 hrs. Lab.

The advanced study of the design, construction and mechanical function of automotive engines including electrical, lubricating, fuel and cooling systems. The design and care of hand tools and the repair and general overhaul of the gasoline engine.

AVIATION

Aviation 1 Introduction to Aviation (3)

3 hrs. Lec.

Serves to meet the written test and ground school requirements to procure a Private Pilot's Certificate and as a refresher for Pilots. The material covers aviation, meteorology, aircraft frame, aircraft engines, and current FAA regulations.

BIOLOGY

Bio 3 Principles of Biological Science (3)

2 hrs. Lec.

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

Bio 21 General Microbiology (4)

2 hrs. Lec. 6 hrs. Lab.

Provides students with fundamental concepts of the structure and physiology of non-disease and disease producing microorganisms with particular attention to bacteria. Basic techniques for culturing, staining, counting and identifying microorganisms. Designed to meet the requirement to enter one of the medical fields as well as general education.

BOTANY

Bot 1A General Botany (4)

2 hrs. Lec. 6 hrs. Lab.

Prerequisite: Any year course in a high school laboratory science. Designed to present a comprehensive view of the structure and function of stems, roots, leaves, flowers, and seeds of the flowering plants.

Bot 1B General Botany (4)

2 hrs. Lec. 6 hrs. Lab.

Prerequisite: Botany 1A. Designed to present a comprehensive view of the structure and function of the plant kingdom from the lowest to the highest forms; typical representatives of algae, fungi, mosses, ferns, and flowering plants in proper relation to one another.

BUSINESS

Bus 1A-B Principles of Accounting (4-4)

4 hrs. Lec. l hr. Lab.

Prerequisite: Satisfactory score on the mathematics placement test or completion of Mathematics 51 with a C or better grade. Introduction to the theory, practice, principles of accounting as they relate to single proprietorship, partnership, and corporate types of business enterprises.

Bus 6 Introduction to Business (3)

3 hrs. Lec.

A basic beginning college course that introduces U.S. business and industry. Includes the nature and importance of business, business forms and organization, management, finance, marketing, government and legal regulations, pricing and taxes.

Bus 10A-B Business Law (3-3)

3 hrs. Lec.

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

Bus 11 Business Correspondence (3)

3 hrs. Lec.

Prerequisite: Typing skill. Major emphasis will be given to letter form and style, the psychology of the sales letter, letters of complaint and adjustment, credit and collection, job application and the business report.

Bus 17 Mathematics for Business Analysis (3) 3 hrs. Lec.

Prerequisites: Two years of high school algebra or the equivalent. Theory and practical applications to business and industry situations. Includes discounting, interest, taxes, annuities, insurance, depreciation, stocks and bonds, ratios, factoring, graphic presentations, and special ideas from calculus.

Bus 18 Intermediate Shorthand for Bilinguals (3) 2 hrs. Lec. 3 hrs. Lab.

Prerequisites: Dictation ability of 60 wpm and bilingual English and Spanish. A review of Gregg Shorthand theory. Speed building through dictation and transcription in both English and Spanish.

Bus 20 Alphabetic Shorthand (3)

2 hrs. Lec. 3 hrs. Lab.

Prerequisite: Knowledge of typing keyboard. A beginning course in shorthand. Theory and dictation practice for students who have had no previous training. The course is designed to meet needs of personal and vocational usage.

Bus 21 Elementary Typewriting (2)

2 hrs. Lec. 3 hrs. Lab.

Designed to impart the fundamental skills and knowledge of typing. The student is introduced to the basic concepts of typewriting production. Not open to students who have had previous instruction in typewriting.

Bus 22A-B Proficiency—Exit Typewriting (2-2) 1 hr. Lec.

Prerequisite: Business 21 or the ability to type 20 wpm. Designed to bring students to an office-level skill. Emphasis is placed on business letters, manuscripts, tabulation and statistical work. Business 22B may be taken by those students who do not attain office-level proficiency in Business 22A.

Bus 24 Office Procedures (3)

2 hrs. Lec. 4 hrs. Lab.

Prerequisite: Business 22A-B or the ability to type 50 wpm. An integrated course oriented towards production techniques that meet the standards of the business community. Covers the full range of office duties stressing those competencies required of the general office worker.

Bus 25 Office Machines (3)

2 hrs. Lec. 3 hrs. Lab.

Prerequisite: Satisfactory score on mathematics placement test or completion of Math 51 with a C or better grade. Develops skills required for rapid and accurate operation of calculating machines.

Bus 26 Elementary Shorthand (3)

2 hrs. Lec. 3 hrs. Lab.

The beginning course in Gregg Shorthand. Theory and dictation practice. Not open to students with previous instruction in shorthand and students who plan to enter the secretarial field.

Bus 27A-B Dictation and Transcription Lab (3-3) 1 hr. Lec. 4 hrs. Lab.

Prerequisite: A dictation level of at least 60 wpm. Five hours of shorthand dictation and typewriter transcription. Designed to bring students to an office level skill.

Bus 29 Machine Transcription (1)

3 hrs. Lab.

Prerequisite: Ability to type 40 wpm. Use of dictating-transcribing machine.

Bus 30 Management Concepts of Supervision (3) 3 hrs. Lec. 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.

Bus 31 Human Relations in Management (3) 3 hrs. Lec.
Improving supervision by the use of basic psychology in building better employer-employee relationships through human relations techniques; development of leadership qualities; main human relations problems and their causes and solutions.

Bus 37 Business Management (3) 3 hrs. Lec. A study of the organizing and merchandising problems of a busines; financial problems; business management.

Bus 38 Principles of Marketing (3)

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

An introductory course designed to familiarize the student with the role and application of data processing practices and procedures to the modern business world.

Bus 41 Data Processing Operations (3)

3 hrs. Lec. 1 hr. Lab.

An introduction to computer hardware and its operation. Students will experience actual hands-on operation with key punches, sorters, key-to-tape devices, and digital computers.

- Bus 42 Introduction to Computer Mathematics (3) 3 hrs. Lec.

 Basic mathematics for data processing, set notation and operation, non-decimal number systems (to include binary, octal, and hexa decimal), algebra with emphasis in solving data processing problems. Development of mathematical models for business application.
- Bus 44 Computer Programming I (3)

 3 hrs. Lec.

 Prerequisite: Business 40. A basic course in the programming of electronic digital computers to prepare programmers and students of closely related occupations for employment in business and industry. Course covers problems of data processing, characteristics of computers, and computer programming.
- Bus 45 Computer Programming II (3)

 3 hrs. Lec.
 Prerequisite: Business 44. A second semester course in
 electronic digital computer programming designed for
 student achievement of technological proficiency in programming input and output devices, machine-aided coding,
 program optimizing, basic file maintenance, computer problem planning, and report writing.
- Bus 46 Data Processing Systems (3)

 3 hrs. Lec.

 Prerequisite: Business 45. A study of data processing systems and procedures including analysis of various existing business data processing applications, integrated processing principles, total management information, and data systems concepts. Case study projects developing detailed data processing procedures are stressed.
- Bus 49A-B Computer Operations Lab (1-1) 2 hrs. Lab.

 Prerequisite: Concurrent enrollment in Business 44 or Business 45. Course designed to provide an opportunity for additional experiences with software and hardware related to the curricula of Business 44 and Business 45.
- Bus 50A-B Practical Bookkeeping (3-3)

 Prerequisites: Bus 50A, none. Bus 50B, Bus 50A. A course designed to meet the needs of practical bookkeeping in a single proprietorship business. Business 50A deals with journalizing, posting, preparing trial balances, and payroll preparation for service type businesses on the cash basis. Business 50B deals with merchandising businesses keeping their books on the accrual basis. A practice set approach is used in each semester.

- A beginning business course that introduces business and industrial structure, the nature of business, forms of ownership and management, finance, marketing, government regulations, and legal aspects of business operations. Not open to students who have completed Business 6 or the equivalent.
- Bus 52 Practical Salesmanship (3)

 The practical background of salesmanship; the duties and functions of a salesman in the selling of ideas, services, and products. Includes the place and importance of salesmen in the marketing structure of the U.S. economy. Not open to students who have completed Business 9 or the equivalent.
- Bus 53 Applied Business Law (3)

 A one-semester course covering courts and court procedures, contracts, sales, bailments, negotiable instruments, agency and employment, partnerships, corporations, insurance, and property. Not open to students who have completed Business 10 or the equivalent.
- Bus 54 Essentials of Business Correspondence (2) 2 hrs. Lec.

 Prerequisite: Ability to type. Bus 76 recommended. Emphasizes the basic elements and skills necessary for effective business communications. The business vocabulary—pronunciation, spelling, meaning, and punctuation—together with standard letter-writing styles will be stressed. Not open to students who have completed Business 11.
- Bus 55 Personal Income Tax (2)

 An elementary course in computation of income tax, use of forms and some of the less complex computations. Tax regulations are studied and students are taught to prepare returns.
- Bus 61 Retailing (3)

 Selection of a location for a retail outlet, organization of the store, buying, the movement of merchandise, and the study of other problems related to retail merchandising.
- Bus 62 Personal Finance (3)

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

Bus 63 Records Management (3)

3 hrs. Lec.

Lecture and supervised individual and group procedural activity designed to acquaint students with progressive filing and records management rules, procedures and techniques. Alphabetic, numeric, geographic and subject filing are studied.

Bus 76 Grammar & Usage Review (2)

2 hrs. Lec.

(Same as Eng 76)

Bus 82 Law Office Procedures and Practices for Secretaries (3) 3 hrs. Lec.

Practical instruction and exercises for secretaries; forms of pleadings; procedures for various actions (probate, divorce, and civil litigation); the law library and legal research; dictation of legal documents.

Bus 83A-B Medical Terminology for Secretaries (3) 3 hrs. Lec.

Provides training in the proper usage, meaning and origin of terms and names used in the medical sciences. Covers the following areas: skin, musculoskeletal, neurological and psychiatric, cardiovascular, blood and blood forming organs, respiratory, digestive, urogenital, gynecological, obstetrical and neonatal, endocrine and metabolic, special sense organs, and diseases of the body as a whole. The course is designed for medical secretarial students. It includes rules of conduct as they apply to the medical secretary, the patient and the physician.

Bus 84 Legal Dictation (2)

3 hrs. Lab.

Prerequisite: Shorthand dictation rate of 80 wpm, typing speed of 50 wpm. Shorthand dictation and transcription of legal instruments.

Bus 85 Medical Dictation (2)

3 hrs. Lab.

Prerequisite: Ability to take shorthand at 60 wpm. Shorthand dictation and transcription of medical terms.

Bus 90 Real Estate Principles (3)

3 hrs. Lec.

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

Bus 91 Real Estate Practices (3)

3 hrs. Lec.

Prerequisite: Business 90. An analysis of the problems related to the establishing and conducting of a real estate business; the real estate business, the real estate office, listings, valuation of listings, prospecting, advertising, the selling process, closing the sale, financing real estate, exchanges and specialized brokerages, income properties, property management and leasing, taxes and real estate deals, land utilization, and professional and public relations.

Bus 92 Legal Aspects of Real Estate (3)

3 hrs. Lec.

Prerequisite: Business 90, or permission of the instructor. A practical applied study of California Real Estate Law intended to be of help in avoiding legal difficulties which can arise in connection with real estate transactions.

Bus 93 Real Estate Finance (3)

3 hrs. Lec.

Prerequisite: Business 90 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, multifamily, commercial, and special purpose properties.

Bus 94 Real Estate Appraising (3)

3 hrs. Lec.

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

Bus 95 Real Estate Economics (3)

3 hrs. Lec.

Prerequisites: Business 90, 91 and 92, recommended Business 93 and 94. 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.

CHEMISTRY

Chem 1A-B General Inorganic Chemistry (5-5) 3 hrs. Lec. 6 hrs. Lab.

Prerequisites: High school algebra and plane geometry and high school chemistry or Chemistry 22. General principles of chemistry with emphasis on inorganic materials and calculations. Qualitative analysis is included in the second semester.

Chem 2A Introduction to Chemistry (4)

3 hrs. Lec. 3 hrs. Lab.

Prerequisite: One year of high school algebra or its equivalent. Intended for students who have not had high school chemistry or who need further preparation for Chemistry 1A. The course is recommended for those who desire a basic understanding of the elementary principles of chemistry. Not open to students who have completed Chemistry 1A or the equivalent. Course will be offered as a Credit class.

Chem 5 Quantitative Analysis (4)

2 hrs. Lec. 6 hrs. Lab.

Prerequisite: Chemistry 1B. Theory and practice of volumetric and electronchemical methods of analysis. (Usually offered during Summer Session.)

Chem 12 Organic Chemistry (5)

3 hrs. Lec. 6 hrs. Lab.

Prerequisite: Chemistry 1B. A study of the compounds of carbon with special emphasis on the aliphatic compounds; includes an introduction to the aromatic compounds. Emphasis is given to the molecular orbital concept throughout the course.

COSMETOLOGY

Cos 50A Intro to Cosmetology (10)

Prerequisite: At least a 10th grade education or the equivalent. State rules and regulations set forth by the California State Board of Cosmetology. Introduction to sterilization and sanitation for patron protection. Personal development as a cosmetologist. Introduction to all phases of cosmetology, including theory and practical (Lab). Introduction to the Anatomy in Beauty Culture. Instruction in proper use and care of all equipment necessary in cosmetology.

Prerequisite: At least a 10th grade education or the equivalent. Introduction to cosmetic chemistry. Correct application to shampoo, cold waving, hair coloring, manicuring, basic hair styling, curl construction, and roller placement. Theory of anatomy and dermatology. Diseases and conditions pertaining to cosmetology. Facials, make-up, basic hair cutting and scalp treatments.

Cos 52A Intermediate Cosmetology (10) 360 Classroom hrs..

Prerequisite: At least a 10th grade education or the equivalent. Cosmetology Act and rules set forth by the State Board of Cosmetology. Theory of anatomy and bacteriology pertaining to cosmetology. Theory and practical training in chemical hair relaxing and hair pressing. Use of electrical equipment in all phases of cosmetology.

Cos 52B Intermediate Cosmetology (10) 360 Classroom hrs.

Prerequisite: At least a 10th grade education or the equivalent. The continued theoretical and practical training in all phases of cosmetology introduced in previous courses. Laboratory and desk experience. Techniques of salesmanship, methods of advanced hair styling, and the construction, care and fitting of wigs. Laboratory safety practices in the use of chemicals.

Prerequisite: At least a 10th grade education or the equivalent. Theory of salon management and employment practices. Study of electricity use of the sonoscope, and training in use of slide and movie projectors. State Board preparation in all phases of cosmetology.

DRAMATIC ART

3 hrs. Lec. Drm Art 5A-B History of World Drama (3-3) The study of the history of drama and theatre development from primitive times to the present. Emphasis will be placed on the correlation between staging and acting techniques and dramtic literature. 5A covers theatre development through Ibsen; 5B from Ibsen to the present. 5A or 5B may be taken separately.

2 hrs. Lec. Drm Art 20A-B Fundamentals of Acting (3-3) 3 hrs. Lab.

An introduction to the interpretation of drama through the art of the actor. Development of individual insights, skills, and disciplines in the presentation of the dramatic material to an audience. Laboratory hours to be arranged.

2 hrs. Lec. Drm Art 21 Intermediate Acting (3) 3 hrs. Lab.

Prerequisite: Dramatic Art 20.B. A continuation of 20B with further emphasis on fundamental acting skills, laboratory hours to be arranged.

Drm Art 22 A, B, C, D, Rehearsal and Performance (1-1-1-1) 3 hrs. Lab.

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

ECONOMICS

3 hrs. Lec. Econ 1A Principles of Economics (3)

An introduction to economic concepts and the principles of economic analysis. Emphasis on economic institutions, issues of public policy; and macro-analysis in national income, money and banking, and economic stabilization.

3 hrs. Lec. Econ 1B Principles of Economics (3)

Prerequisite: Economics 1A or consent of the instructor. An introduction to economic concepts and principles of economic analysis. Emphasis on economic institutions, issues of public policy; and micro-analysis in the direction of production and the allocation of resources through the pricesystem.

EDUCATION

Ed 1 Introduction to Education (2)

l hr. Lec. 3 hrs. Lab.

Recommended for students interested in a teaching credential. Opportunity to explore specific grade levels through weekly observations and participation in actual classroom situations. Gives broad overview of the varied aspects of teachina.

ENGINEERING

Engr 2A-B Engineering Drawing (3-3)

11/2 hrs. Lec. 41/2 hrs. Lab.

Prerequisite: Engineering 21 or two years of high school mechanical drawing or permission of the instructor. Geometric construction, sketching, dimensioning, theory of orthogonal projections, auxiliaries, sectioning, tolerance, piping, structural and mechanical design, and simple working drawings.

Engr 3 Descriptive Geometry (3)

1½ hrs. Lec. 41/2 hrs. Lab.

Prerequisite: Engineering 2A or 2B. An advanced course in drawing: three dimensional location of points, lines and planes: surface and intersection problems with engineering applications and vector geometry.

Engr 5 Strength of Materials (3)

3 hrs. Lec.

Prerequisite: Engr 15 Statics. Review of vectors, components of forces, force moments, equilibrium, centroids and moments of inertia of an area. Stress and strain for beams, columns, bars and shafts. Bending moments combined with torque.

Engr 6 Properties of Materials (3)

l hr. Lec. 5 hrs. Lab.

Prerequisites: Physics 2A and Math C. Study of properties of materials, technical methods of testing, structural uses. and methods of manufacture.

Engr 10 Engineering Problems (3)

3 hrs. Lec.

Prerequisite: Mathematics 2 or Engr 61B. An applied course in geometry, algebra, and trigonometry with applications to problems in engineering.

Engr 11 Fundamentals of Electricity (3)

3 hrs. Lec.

A study of energy sources, magnetic circuits, alternating and direct current circuits and machines, machine controls and applications, and wiring systems.

Engr 12 Architectural Drafting I (3)

l hr. Lec. 5 hrs. Lab.

Prerequisite: Engr 2A or eligibility for Engr 2A. The course offers: 1. Basic elements in planning various areas of a residential structure and combining these areas into a composite functional plan. 2. Basic techniques and procedures needed in preparing architectural floor plans, foundation plans and pictorial drawings. 3. Local building regulations and California Building Code.

Engr 13 Architectural Drafting II (3)

1 hr. Lec. 5 hrs. Lab.

Prerequisites: Architectural Drafting 1 or equivalent. Technical architectural residential design including location plans, sectional drawings, foundation plans of various types, framing plans, specifications, electrical and airconditioning plans, plumbing diagrams and modular construction plans, building codes. History of architecture.

Engr. 14 Architectural Drawing III (3)

l hr. Lec. 5 hrs. Lab.

Prerequisite: Engr 13 or equivalent. Working drawings for small commercial buildings. Planning merchandising facilities: banks, medical offices and clinics, food stores, restaurants and cafeterias, motels and parking facilities, shopping centers, churches. Curtain-wall systems. Uniform Building Code. Modern American architecture.

Encr 15 Statics (3)

3 hrs. Lec

Prerequisite: Physics 4A. Using vector algebra for analyzing and solving practical problems. Problems dealing with force systems, static equilibrium requirements, centroids, friction, moments of inertia of area and mass, centers of gravity, shear and moment diagrams.

Engr 16 Dynamics (3)

3 hrs. Lec.

Prerequisites: Engineering 15 and Physics 4B. Kinematics of a particle, radius of gyration, dynamics of a particle, dynamics of a rigid body in plane motion, translation and rotation, working energy impulse and momentum, simple harmonic motions and vibrations, conservation of linear and angular momentum.

Engr 18A-B Plane Surveying (3-3)

l hr. Lec. 6 hrs. Lab.

Prerequisites: Math C and Engineering 21 or the equivalent. Principles of surveying, use of surveying instruments in the field, calculations, mapping and plotting.

Engr 21 Technical Drawing (3)

1½ hr. Lec. 4½ hrs. Lab.

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

Engr 23 Slide Rule and Computations (I)

I hr. Lec.

Prerequisite: Completion of Mathematics X. Performing necessary manipulations with the slide rule, while using correct methods, to solve engineering and technical problems.

Engr 30 Orientation to Engineering (2)

2 hrs. Lec.

Helping the engineering student adjust to college life through motivating experiences and guidance, clarifying his concepts of the engineering college and the engineering profession, and aiding him to acquire the fundamental tools and skills required in his future work.

Engr 53 Construction Materials (2)

I hr. Lec. 3 hrs. Lab.

Basic theory of structures: materials characteristics, availability, economic factors, handling, transportation and storage. Properties and uses of wood, steel, concrete and masonry materials. Study of modern applications of building materials.

Engr 55 Strengths of Materials (3)

2 hrs. Lec. 2 hrs. Lab.

Prerequisites: Engr 21, 61B. Fundamental stress and strain relationships, simple stresses, physical properties of engineering materials, stresses in thin walled cylinders, riveted and welded joint, design, investigation of stresses and deflections in beams and columns, torsional, impact and repeated loading stress.

Engr 61A Technical Mathematics (3)

3 hrs. Lec.

Prerequisite: Satisfactory score on mathematics placement test. Slide rule; variation; algebra fundamentals; fractions; exponents and radicals; linear and quadratic functions; solution of triangles.

Engr 61B Technical Mathematics (3)

3 hrs. Lec.

Prerequisite: Engr 61A. Applied vocational mathematics; manipulation of formulas; introduction to geometry; the use of graphs, proportions, percentage.

Engr 65 Statics (3)

3 hrs. Lec.

Prerequisite: Engr 61B or equivalent. Study of vectors; forces and equilibrium.

Engr 72A-B Surveying for Engineering Technology (3-3)

l hr. Lec. 5 hrs. Lab.

Prerequisite: Satisfactory score on mathematics placement test. Care and use of surveying instruments and accessories. Principles of running lines, grades, leveling, building layout, contours and cross sections. Field notes and computations.

Engr 81 Fundamentals of Electronics (4)

3 hrs. Lec. 2 hrs. Lab.

Prerequisites: Engr 11 and completion of Math 51 or satisfactory score on placement examination. Covers the fundamentals of electron tubes and transistors, with emphasis on graphical and mathematical analysis in the lecture and practical experiments in the lab. Included is the study of power supplies, audio and power amplifiers, decibels, class A and B push-pull amplifiers, special semi-conductors and the oscilloscope.

Engr 82 Intermediate Electronics (4)

3 hrs. Lec. 2 hrs. Lab.

Prerequisite: Engr 81. Designed to acquaint the student with commercial communication principles and systems. The following areas are covered using tube and transistor circuits: Oscillators, R. F. Amplifiers, Modulation principles, Antenna and Transmission lines, Dadiation detection, superheterodyne Receivers, AM and FM Receiver servicing.

ENGLISH

Eng A English Fundamentals (3)

3 hrs. Lec.

Prerequisite: Assignment by placement test. Intensive study of vocabulary, grammar and usage with frequent writing of short themes. This course is designed for those students who wish a thorough review in preparation for Eng 1A. Concurrent enrollment in Eng 59 or Eng 60 is strongly recommended. Eng A does not fulfill basic requirements for graduation.

Eng 1A Reading and Composition (3)

3 hrs. Lec.

Prerequisite: Satisfactory score on the placement test or placement by retesting. The standard course in freshman English. The course seeks to improve the student's ability to understand serious and complex prose and to improve the student's ability to write exposition that is thoughtful and clear.

Eng 1B Introduction to Literature (3)

3 hrs. Lec.

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

Eng 3A Introduction to Film Criticism (2)

l hr. Lec. 2 hrs. Lab.

(Same as Hum 3A.) Designed for the individual who wishes to increase his capacity to enjoy movies. An inquiry into the quality of artistic vision which is the sole property of the film as an art form. A broad selection of films is critically examined. Open to all students.

Eng 3B Advanced Film Criticism (2)

l hr. Lec. 2 hrs. Lab.

(Same as Hum 3B.) A continuation of Eng 3A, with emphasis on certain major directors or "auteurs." Eng 3B may be taken before Eng 3A; however, it is recommended that the student take the courses in sequence.

Eng 15A-B American Literature (3-3)

3 hrs. Lec.

Prerequisite: Eng 1B; but this prerequisite will be waived for those who had an overall high school average of B or better and who received an A or B in junior or senior English (high school) or in advanced placement courses. A critical analysis of literary works of major American writers. The two parts of this course are divided approximately by the Civil War. Eng 15B may be taken before Eng 15A.

Eng 16A-B World Literature (3-3) 3 hrs. Lec.

Prerequisite: Same as for Eng 15A-B. Eng 16A covers selected literature of the Hebrews, the Greeks, the Romans, the Middle Ages, and the Renaissance. Eng 16B covers the literature of Neo-Classicism, Romanticism, Naturalism, Symbolism, and modern schools. Emphasis is placed on the Continental literature of western culture. Eng 16B may be taken before Eng 16A.

Eng 17A-B Survey of English Literature (3-3) 3 hrs. Lec.

Prerequisite: English 1B or permission of the instructor.

Close study of typical works of major English writers, with consideration of the more important aspects of English literary history. English 17B may be taken before English 17A.

Eng 31 Creative Writing (3)

Prerequisite: Eng 1B or permission of the instructor. Study and application of the principles of literary construction. Concentrated exercises in the writing of imaginative literature, including short story, poetry, drama, and essay.

Eng 32 Advanced Composition (3)

Prerequisite: Eng 1A. Advanced expository prose, argumentation, description and the study of prose style. Offers an opportunity for creative writing.

Eng 33 The Literary Artist as Social Critic (3) 3 hrs. Lec.
A critical analysis of literary works relevant to the study
of American social issues, such as women's liberation,
racial conflict and war.

Eng 36 The Bible as Literature (3) 3 hrs. Lec.
A study of the prose and poetry of the Bible.

Eng 40X English as a Second Language (4) 4 hrs. Lec. 1 hr. Lab.

Prerequisite: Placement by a raw score of 85 per cent or lower on the ESL entrance exam. An intermediate course in English comprehension, speech and basic conversational skills. Intensive oral practice. Those foreign students taking English as a Second Language, Eng 40X and 40Y normally will be limited to a 12-unit maximum in the study load.

English as a Second Language is not intended for the

beginner. It is a course in intermediate English, taught by foreign language methods and designed especially for meeting those problems native Spanish-speakers have with both speaking and writing English. (Native-speakers of Chinese, Arabic, Hindi, etc., also find this course particularly helpful.)

Inglés como Segundo Idioma **no** es para principiantes. Es una materia en Inglés Intermedio, enseñado con métodos bajo los cuales se enseñan idiomas extranjeros y diseñado especialmente para aquellos que el Español siendo su idioma nativo experimentan dificultades hablando y escribiendo Inglés. (Aquellos cuyas lenguas son Chino, Arabe, Indu, etc., también encontraran ésta materia estremadamente útil.)

Eng 40Y English as a Second Language (4) 4 hrs. Lec. 1 hr. Lab.

Prerequisite: English 40X or equivalent. English reading, grammar and composition. Satisfactory completion of this course qualifies the student for enrolling in Eng A or Eng 51. This course satisfies part of the graduation requirement in communications.

Eng 41 Mass Communications (3) 3 hrs. Lec (Same as Jrn 41)

Eng 42A Survey of Journalism (3) 3 hrs. Lec. (Same as Jrn 42A)

Eng 42B Survey of Journalism (3) 3 hrs. Lec. (Same as Jrn 42B)

Eng 43 Oral English for Bilingual Students (3) 3 hrs. Lec.

An intensive course in oral American English for students who have learned English as a second language. Intended for students who may read well and have a good grasp of grammar, but who still need more practice in manipulating oral structures. Satisfies part of the graduation requirement in communications.

Eng 45A-B-C-D Newspaper Production (1) 4 hrs. Lab. (Same as Jrn 45.)

Eng 47 Technical and Report Writing (3) 3 hrs. Lec.

Prerequisite: Eng 51, Eng A, Eng 1A, or permission of the instructor. Practical experience in writing various kinds of technical reports, descriptions, and evaluations; writing assignments fitted to the interests of individual students. Satisfies part of the graduation requirements in communications.

Eng 48 Power Reading (2)

2 hrs. Lec.

Designed to help adequate readers become superior readers. Recommended for college transfer students who wish to develop the efficient reading skills necessary for all types of college-level reading.

Eng 51 The Communication Process (3) 3 hrs. Lec.

A course designed to familiarize the student with every-day communication processes. Includes analysis of typical media (TV, newspapers, magazines, etc.) and is aimed at developing critical ability. Practice in oral and written communication. This course (or Eng 1A) must be taken in partial fulfillment of the IVC graduation requirement in communications.

Eng 53 Selected Literature (3)

3 hrs. Lec.

Reading of short stories, novels, plays, and poetry. Some writing required. Emphasis on reading for personal satisfaction rather than on literary analysis. Satisfies part of the general education requirement in communications.

Eng 59A-B Basic Reading Skills (3-3)

3 hrs. Lec. 1 hr. Lab.

Diagnosis of individual reading problems. Instruction in vocabulary development, word recognition, phonetic analysis, and comprehensive skills. Includes writing of sentences and paragraphs. Recommended for students whose placement test scores indicate a need for practice in basic skills.

Eng 60A-B Reading Development (2-2)

2 hrs. Lec. 1 hr. Lab.

Designed primarily for the individual who wishes to increase his efficiency as a student. Concentration, rate building, comprehension of written materials, vocabulary development, flexibility in the use of reading methods, application of reading skills to subject areas. Development of individual reading interests is encouraged.

Eng 61 Vocabulary Building (2)

2 hrs. Lec.

A concentrated study of affixes, roots, word origins, language change, varieties of meaning, the dictionary, and vocabulary in the various content areas.

Eng 63 Library Resources and The Research Paper (1) I hr. Lec.

Use of library facilities for the purpose of writing a research paper; techniques of preparing and presenting a research paper. Each student will be expected to work on his own paper.

Eng 65 Spelling (1)

l hr. Lec.

Diagnosis of specific spelling problems and prescription of remedies; investigation of the basic spelling rules.

Eng 71 The Drama (2)

2 hrs. Lec.

Reading and discussion of selected plays. An enrichment course for the student interested in literature.

Eng 72 The Novel (2)

2 hrs. Lec.

Reading and discussion of selected novels. An enrichment course for the student interested in literature.

Eng 76 Grammar and Usage Review (2)

2 hrs. Lec.

A review of the parts of speech and the structure of the sentence. Work is also done on the improvement of English usage.

Eng 83A-B-C-D Yearbook Workshop (1-1-1-1)

3 hrs. Lab.

(Same as Jrn. 83A-B-C-D.)

ENVIRONMENTAL SCIENCE

Env Sci 5 Man and His Environment (3)

3 hrs. Lec.

(Same as Ag 5.) The study of natural resources vital to man's existence. Emphasis on composition of the physical environment and problems associated with contamination of air, water, and soil.

FIRE SCIENCE

Fire Science 80 Introduction to Fire Protection (3) 3 hrs. Lec. Philosophy and history of fire protection; history of loss of life and property by fire; review of municipal fire defenses; study of the organization and function of federal, state, county, and private fire protection agencies; survey of professional fire protection career opportunities.

Fire Science 81 Introduction to Fire Suppression (3) 3 hrs. Lec. Fire suppression organization; fire suppression equipment; characteristics and behavior of fire; fire hazard properties of ordinary materials, building design and construction; extinguishing agents; basic fire fighting tactics; public relations.

Fire Science 82 Fire Fighting Tactics and Strategy (3) 3 hrs. Lec.

Review of fire chemistry, equipment, and manpower; basic fire fighting tactics and strategy; methods of attack; preplanning fire problems.

Fire Science 83 Fire Hydraulics (3) 3 hrs. Lec.

Prerequisite: Completion of Math 51 or satisfactory score on Mathematics Placement Test. Review of basic mathematics; hydraulic laws and formulas as applied to the fire service; application of formulas and mental calculation to hydraulic problems; water supply problem; underwriters' requirements for pumps.

Fire Science 84 Fire Apparatus and Equipment (3) 3 hrs. Lec.

Driving laws, driving technique, construction and operation of pumping engines, ladder trucks, aerial platforms, specialized equipment, apparatus maintenance.

Fire Science 85 Fire Company Organization and Procedure (3) 3 hrs. Lec.

Review of fire department organization; fire company organization; the company officer; personnel administration; communications; fire equipment; maintenance; training; fire prevention; fire fighting company; fire fighting capability; records and reports.

Fire Science 86 Rescue Practices (3)

Rescue practices, the human body, emergency care of victims, childbirth, artificial respiration, toxic gases, chemicals and diseases, radioactive hazards, rescue problems, and techniques.

FRENCH

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the foreign language requirement in various majors. These high school courses will not count as college credit toward graduation. Placement will be made by examination and/or consent of the instructor, Contact the IVC Counseling Office for further information.

Fr 1 Elementary French (4)

3 hrs. Lec. 2 hrs. Lab.

An intensive, methodical presentation to develop facility in the skills of listening, comprehension, speaking, reading and writing with control of the basic structures in both oral and written form. The student will be introduced to aspects of French culture and civilization. The student must plan for an additional half hour of individual language laboratory.

Fr. 1A-B Elementary French (2-2)

1½ hrs. Lec.1½ hrs. Lab.

Prerequisites: None. This course is one-half the content of the regular French 1 course. Completion of French 1A and 1B sequence will be the equivalent of French 1, and the total of 4 units. French 1A will be offered in the fall, and French 1B in the spring. Students must plan for additional one-half hours weekly of individual laboratory work.

Fr 2 Elementary French (4)

3 hrs. Lec. 2 hrs. Lab.

Prerequisite: French 1 or placement by examination. Continuation of French 1.

Fr 3 Intermediate French (4)

4 hrs. Lec. l hr. Lab.

Prerequisite: French 2 or placement by examination. Continuation of French 2 with a review of grammar in depth and practical oral application. Emphasizes oral practice, writing and reading in French. Includes cultural material, short stories, novels and plays. Outside reading with oral and written reports.

Fr 4 Intermediate French (4)

4 hrs. Lec. 1 hr. Lab.

Prerequisite: French 3 or placement by examination. Continuation of French 3.

Fr 10 Conversational French (2)

2 hrs. Lec. 1 hr. Lab.

Prerequisites: French 1 and 2 or by examination and consent of instructor. Conversational skills are developed through oral drills, laboratory work and guided conversations on selected readings and topics. Practice in the dialogues and plays. Meets French conversation requirements for enrollment in upper division courses in French at SDSC.

Fr 11 Conversational French (2)

2 hrs. Lec. 1 hr. Lab.

Prerequisite: French 3 or 10. This course is a continuation of French 10.

Fr 40 French Civilization (2)

2 hrs. Lec.

(Conducted in English.)

The major currents and characteristics of French culture and their development as expressed through the centuries in literature, art, philosophy, music, science, and politics, and life of the people from pre-history to the 18th century. Satisfies requirement for French major or minor at San Diego State College.

Fr 41 French Civilization (2)

2 hrs. Lec.

Continuation of French 40 from the 18th century to the present.

Fr 52A Everyday French (3)

3 hrs. Lec.

An elementary course in conversational French. This course is not designed to meet the academic requirements for transfer students, but for those who desire to acquire sufficient knowledge of the spoken language in order to communicate more easily while traveling in France and Europe. An introduction to various aspects of French culture and civilization is included.

Fr 52B French for Tourists (3)

3 hrs. Lec.

An elementary course in conversational French. Continuation of Fr 52Å.

GEOGRAPHY

Geog 1 Physical Geography (3)

3 hrs. Lec.

An introduction to the physical characteristics of the earth. Topics include: climate, land forms, natural vegetation, and the water and mineral resources of the earth.

Geog 2 Cultural Geography (3)

3 hrs. Lec.

An introduction to the regions and cultures of the world. Emphasis on the contemporary demographic, linguistic, religious, and economic characteristics of major regions in the world. May be taken before Geography 1.

GEOLOGY

Geol IA Physical Geology (4)

3 hrs. Lec. 3 hrs. Lab.

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.

Geol 1B Historical Geology (4)

3 hrs. Lec. 3 hrs. Lab.

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

Geol 2 Introduction to Geology (4)

3 hrs. Lec. 3 hrs. Lab.

A survey of the whole field of physical and historical geology including a study of earth materials, processes, and history as revealed in an examination of rocks and fossils. Intended as a general education course for non-majors. The course is not open to those who have credit in Geology 1A or Geology 1B.

GERMAN

Ger 1 Elementary German (4)

3 hrs. Lec. 2 hrs. Lab.

An intensive, methodical presentation to develop facility in the skills of listening, comprehension, speaking, reading and writing with control of the basic structures in both oral and written form. The student will be introduced to aspects of German culture and civilization. The student must plan for an additional half hour of individual language laboratory.

Ger 2 Elementary German (4)

3 hrs. Lec. 2 hrs. Lab.

Prerequisites: German 1 or by placement examination. An intensive, methodical presentation to develop facility in the skills of listening, comprehension, speaking, reading and writing with control of the basic structures in both oral and written form. The student will be introduced to aspects of German culture and civilization. The student must plan for an additional half hour of individual language laboratory.

Ger 10 Conversational German (2)

2 hrs. Lec. 1 hr. Lab.

Prerequisites: German 1 and 2 or by examination and consent of instructor. Conversational skills developed through oral drills, laboratory assignments and guided conversations on assigned topics. Practice in the spoken language; practical and diplomatic vocabulary, simple dialogues and plays. Meets German conversation requirements for enrollment in upper division courses.

Ger 11 Conversational German (2)

2 hrs. Lec. 1 hr. Lab.

Prerequisites: German 1 and consent of instructor. Conversational skills are developed through oral-aural drills, lab work and guided conversation based on selected readings. Not open to students with native ability.

GUIDANCE

Guidance 60 Career Planning (1)

l hr. Lec.

A course designed to assist the student to make an evaluation of his aptitudes, abilities and interests through the use of standardized measures and self-rating scales; to study career choices commensurate with his personal profile analysis; to survey occupational information with emphasis on worker requirements, training, and method of job entry; and to formulate plans for the training necessary to enter the chosen career.

A course in the methods of efficient study which is designed to assist the student in adjusting to the demands of college study and the improvement of learning skills. Includes a survey of the learning processes and the development of the techniques of listening, the use of texts, taking useful notes, outlining, scheduling, learning to concentrate and remember, the preparation for examinations, and the use of the library.

Guidance 62A-B Personal and Social Development (I-I)

A course, utilizing group dynamics, designed to encourage and develop insight into collegiate and modern problems of adjustment, the utilization of personal potential, and the understanding of individual and group processes of development.

Guid 63 A-B Vocational and Personal Orientation (1)

l hr. Lec.

A course oriented toward the employed student and designed to enhance the personal, social and economic adjustment of the individual. Admission by permission of the instructor.

Guid 65 The Student in Contemporary College Affairs (1-3)

l hr. Lec.

Prerequisite: Each student in the course is expected to be active in extra-curricular and co-curricular activities which could include committee work, club membership, program planning, and general service. Any student interested in enrollment will be accepted and responsibilities may be selected in consultation with the instructor by the student after enrollment. Designed to develop leadership qualities in students desiring to better understand the principles of publicity, finance, organization procedures, group dynamics, and human relations. The course will be offered as a Credit class

HEALTH, PHYSICAL EDUCATION AND RECREATION

Unless exempt, each student is required by law to schedule one activity course each semester. A student may take A-B-C-D sections of the same course but may not repeat any section for required credit.

H.E. 1 Health Education (2)

2 hrs.

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

H.E. 2 First Aid (2)

3 hrs. Lec.

General procedures in administering first aid. Lecture and laboratory.

H.E. 3 Health Education - Military Service (2)

Prerequisite: The satisfactory completion of one year or more in the military service of the United States. The student wishing credit for military service must bring his DD214 or equivalent supporting document to the Admissions Office and register for the credit. If the student signs up for the class for military credit and does not submit verification of service he will be dropped as a No-Show and will not receive credit.

P.E. 2A Beginning Gymnastics (1/2)

2 hrs. Lab.

An introduction to the basic techniques of tumbling and apparatus.

P.E. 2B Intermediate Gymnastics (1/2)

2 hrs. Lab.

Prerequisite: Physical Education 2A or approval of instructor.

Continuation of Physical Education 2A with emphasis on advanced stunts in tumbling and apparatus.

P.E. 3A Beginning Tennis (1/2)

2 hrs. Lab.

Presentation of the official doubles and singles games including forehand and backhand strokes, serve, basic strategy, footwork and etiquette.

P.E. 3B Intermediate Tennis (1/2)

2 hrs. Lab.

Prerequisite: Physical Education 3A or approval of instructor. Continuation of Physical Education 3A with emphasis on individual stroke analysis, playing strategy and match play, singles and doubles.

P.E. 3C-D Advanced Tennis $(\frac{1}{2}, \frac{1}{2})$

2 hrs. Lab.

Prerequisite: P.E. 3B or approval of instructor. Review and practice of forehand, backhand, serve and volley; overhead smash and lob. Emphasis on court strategy and tactics for singles and doubles competition.

P.E. 4A Beginning Badminton (1/2)

2 hrs. Lab.

Presentation of the official singles and doubles games, including the basic fundamentals of the six basic strokes, footwork, strategy and etiquette.

P.E. 4B Intermediate Badminton (1/2)

2 hrs. Lab.

Prerequisite: Physical Education 4A or approval of the instructor. Continuation of physical education 4A with emphasis on playing strategy and match play.

P.E. 5A Beginning Swimming (1/2)

hrs. Lab.

An introductory course in the basic skills of swimming and basic water survival.

P.E. 5B Intermediate Swimming (1/2)

2 hrs. Lab.

Prerequisites: Physical Education 5 or approval of instructor. A continuation of P.E. 5A with emphasis on endurance and advanced strokes.

P.E. 6A-B Life-Saving and Water Safety Instructor Training $(\frac{1}{2},\frac{1}{2})$ 2 hrs. Lab.

Prerequisite: P.E. 5B or approval of instructor. Techniques of life saving and water safety. This course meets requirements of the Red Cross Senior Life Saving Certificate.

P.E. 7A-B Synchronized Swimming (1/2-1/2)

2 hrs. Lab.

Prerequisite: Consent of instructor. Teaching of water ballet skills with a water show as conclusion to course.

P.E. 8A Beginning Bowling (1/2)

2 hrs. Lab.

Instruction and practice in techniques of bowling. Students enrolling in class must pay fees for use of bowling lanes.

P.E. 8B Intermediate Bowling (1/2)

2 hrs. Lab.

Prerequisite: P.E. 8A or approval of instructor. A continuation of P.E. 8A with emphasis on advanced techniques of bowling. Students enrolling in class must pay fees for use of bowling lanes.

P.E. 9A-B-C-D Adapted Physical Exercises

 $(\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2})$ 2 hrs. Lab.

Prerequisite: Open only to students who are unable to participate in regular physical education program. Assessment of physical performance status and postural evaluation. Individually prescribed exercise program. Recreational games and individual sports adapted to the students' capabilities.

P.E. 10A-B Team Sports for Men (1/2-1/2)

2 hrs. Lab.

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

P.E. 10A-B Team Sports for Women $(\frac{1}{2}, \frac{1}{2})$

2 hrs. Lab.

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

P.E. 12A-B Combative Sports for Men $(\frac{1}{2}-\frac{1}{2})$ 2 hrs. Lab.

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

P.E. 13A-B Individual and Dual Sports (1/2-1/2) 2 hrs. Lab.

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

P.E. 14A-B Rhythmic Gymnastics, Women (1/2-1/2) 2 hrs. Lab.

Gymnastic skills done in rhythm. Includes free exercise movements and routines using balls, hoops, ropes, wands, and clubs.

P.E. 16A-D Physical Education Activity - Military Service $(\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{2})$

Prerequisite: The satisfactory completion of one year or more in the military service of the United States. The student wishing credit for military service must bring his DD214 or equivalent supporting document to the Admissions Office. If the student signs up for the class for military credit and does not submit verification of service, he will be dropped as a No-Show and will not receive credit.

P.E. 17A-B Physical Fitness (1/2-1/2)

2 hrs. Lab.

This course is designed to emphasize physical conditioning and development. Equips the student with a repertoire of exercises and conditioning activities which can be used to maintain physical fitness throughout his or her college and adult life.

P.E. 18A Beginning Golf (1/2)

2 hrs. Lab.

Offers training in the basic fundamentals of stroke with irons, woods and putters; includes rules and etiquette of the game.

P.E. 18B Intermediate Golf (1/2)

2 hrs. Lab.

Instruction and practice in golf requiring skills to play regulation golf course. Students enrolling for course must furnish golf balls and pay green fees when course play is required.

P.E. 25A-B Folk Dance (1/2-1/2)

2 hrs. Lab.

Course includes Square Dances, Folk and Round Dances. Open to men and women.

P.E. 26A Modern Dance (1/2)

2 hrs. Lab.

To familiarize student with Modern Dance techniques and to perform in a show as conclusion to course. Open to men and women.

P.E. 26B Intermediate Modern Dance (1/2)

2 hrs. Lab.

Choregraphy — advanced dance.

P.E. 27A-B Social Dance $(\frac{1}{2}-\frac{1}{2})$

2 hrs. Lab.

Ballroom dancing. Open to men and women.

P.E. 28A-B Modern Dance Theater (2-2) 3 hrs. Lab.
1 hr. by arrangement

Prerequisite: Permission of the instructor. A performance group presenting all forms of dance and related theatre arts. A minimum of five outside performances required each semester. Meets physical education activity requirement.

P.E. 29A-B Modern Jazz (1-1) 2 hrs. Lab.

Prerequisite: Consent of instructor. A study of syncopated movement. Open to men and women.

P.E. 31A-B-C-D Football and P.E. (1-1-1-1) Hours to be arranged Theory and practice of competitive football. Limited to students trying out for varsity teams. The students must schedule for minimum of ten hours per week.

P.E. 32A-B-C-D Basketball and P.E. (1-1-1-1)

Hours to be arranged

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

- P.E. 33A-B-C-D Track and P.E. (1-1-1-1) Hours to be arranged Theory and practice of track. Limited to students trying out for varsity team. The student must schedule for a minimum of ten hours per week.
- P.E. 34A-B-C-D Baseball and P.E. (1-1-1-1) Hours to be arranged Theory and practice of baseball. Limited to students trying out for varsity team. The student must schedule for a minimum of ten hours per week.

P.E. 35A-B-C-D Wrestling and P.E. (1-1-1-1)

Hours to be arranged

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

P.E. 36A-B-C-D Golf and P.E. (1-1-1-1) Hours to be arranged

Theory and practice of golf. Limited to students trying out
for varsity team.

P.E. 37A-B-C-D Cross Country and P.E. (1-I-1-1)

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

P.E. 41A Sports Officiating (2) 2 hrs. Lec.
A study of the rules for officiating football, basketball, and wrestling.

P.E. 41B Sports Officiating (2)

A study of the rules for officiating baseball, track and field, swimming and tennis. 41B may be taken before 41A.

P.E. 42 Sports Officiating for Women (2) 2 hrs. Lec.

To familiarize prospective physical education majors and minors with the rules of team and individual sports for girls.

P.E. 43 Elementary Games and Activities (3) 3 hrs. Lec.

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

P.E. 44 Introduction to Physical Education (2) 2 hrs. Lec.

Principles of physical education, organization of physical education; areas of specialization within the field.

Rec. 45 Introduction to Community Recreation (3) 3 hrs. Lec.

A general orientation to the field of recreation; observing, planning, and conducting recreational activities; areas of specialization within the field.

Rec. 70 Community Recreation (3)

Planning and directing social recreation programs for youth organizations, churches, playgrounds, and community centers; mechanics of party planning and games for all ages.

Rec. 75 Camping Education (2)

l hr. Lec. 2 hrs. Lab.

Preparation for summer camp leaders and counselors. The growth and significance of organized camping; leadership and its techniques; practice in skills for camp programs.

HISTORY

- Hist 4A History of Western Civilization (3) 3 hrs. Lec.
 A survey of the major developments in the Western heritage from the world of the ancient Greeks to Sixteenth Century Europe. Emphasis is on the foundations of Western culture, religion, politics and society.
- Hist 4B History of Western Civilization (3) 3 hrs. Lec. A study of Western civilization from the Sixteenth Century to the present in which political, economic, social and intellectual changes and developments are stressed. May be taken before History 4A.
- Hist 8A History of the Americas (3)

 A survey course in which the history of the United States, Canada and Latin America are considered as an integrated whole. Native American Indian cultures and colonial development through the era of independence are discussed.
- Hist 8B History of the Americas (3)

 A survey course in which the history of the United States, Canada and Latin America are considered as an integrated whole. The area of study covers nineteenth and twentieth century development of the Americas. Consideration is given to the Constitution of the United States.
- Hist 10 History of Modern Russia (3)

 A history of modern Russia from about 1900 to the present day, showing the historical background of Russian Marxism, special attention to the Russian Revolutions of 1917, the consolidation of the Stalinist dictatorship, foreign and domestic policies of the Soviet Union since the Revolution, and a discussion of the expansion of Russian communism and the challenge of Russia today.
- Hist 17A United States History (3)

 Prerequisite: Admission by placement examination. A survey of the political and social development of the United States from the Seventeenth Century to 1865. This course and either History 17B or Political Science 2 will meet graduation requirements in American Institutions.
- Hist 17B United States History (3)

 Prerequisite: Admission by placement examination. A survey of the political and social maturation of the United States from the end of the Civil War to the present. This course and either History 17A or Political Science I will meet graduation requirements in American Institutions. May be taken before History 17A.

Hist 30 Mexico and the American Southwest (3) 3 hrs. Lec.
A one-semester survey of Mexico from the early nineteenth century, the independence movement, the Mexican-American War and the development of Mexico and the American Southwest in the last century.

HONORS

- Honors 21 Humanities Division Honors Program
 (1-2) 1-2 hrs. Lec.
- Honors 22 Business Division Honors Program (1-2)
 1-2 hrs. Lec.
- Honors 23 Social Science Division Honors Program (1-2)
 1-2 hrs. Lec.
- Honors 24 Behavioral Science Division Honors Program (1-2) 1-2 hrs. Lec.
- Honors 26 English Division Honors Program (1-2)
 1-2 hrs. Lec.
- Honors 27 Science Division Honors Program (1-2)
 (Honors 21-27 Course Description)
 1-2 hrs. Lec.
 Prerequisites: Sophomore standing and admission to the program. Individual study with special guidance of instructor. Recommended for honor students in a major area offered by the division or for students requesting study in depth in a particular area. By request of students and/or suggestion of instructor and approval of division chairman. Interdisciplinary conference, with readings, dis-
- Honors 30A-B Field Study (1-6)

 Regular class instruction for honors students in major area of study offered by a division. Interdisciplinary conferences with readings, discussion, and reports. Travel to on-site study areas may be required at the student's expense. Special curriculum may be requested by the students and/or instructors, but must be approved by the appropriate division chairman and the Dean of Instruction.

cussion, reports.

HUMANITIES

Hum 3A Introduction to Film Criticism (2) 1 hr. Lec. 2 hrs. Lab

(Same as English 3A.)

Hum 3B Advanced Film Criticism (2) 1 hr. Lec. 2 hrs. Lab.

(Same as English 3B.)

Hum 25 The Humanities (3) 3 hrs. Lec.

An exploratory course designed to introduce the student to the major areas of study in the Humanities (Art, Architecture, Drama, Dance, Literature, Linquistics, Music) and to help the student relate his life to humanistic values in the world as they are demonstrated in the various media.

IOURNALISM

Irn 41 Mass Communications (3) 3 hrs. Lec.

(Same as English 41) Survey of mass media; their interrelationships, their problems and responsibilities. Relationship of the mass media to the individual.

Jrn 42A Survey of Journalism (3) 3 hrs. Lec.

Instruction in all phases of journalistic writing: definition of news, news writing, feature writing, organizational structure of a newspaper, advertising. (Same as English 42A.)

Irn 42B Survey of Journalism (3) 3 hrs. Lec.

Prerequisite: Journalism 42A. A concentration on the physical aspects of journalism: copy-editing, proofreading, make-up, layout, selling advertisements. (Same as English 42B.)

Irn 45A-B-C-D Newspaper Production (1-3) 4 hrs. Lab.

(Same as English 45A-D) Includes reporting, editing, preparing copy for the printer, and proofreading in production of the college newspaper. Will be offered on a credit basis.

LAW ENFORCEMENT

Law Enf 21 Survey of Law Enforcement (3) 3 hrs. Lec.

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

Law Enf 22 Police Patrol Procedures (3) 3 hrs. Lec.

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

Law Enf 23 Defensive Tactics (2)

2 hrs. Lab.

A study of the art of self-defense through boxing, wrestling and fencing. Includes the art of weight lifting. Satisfies one semester of Physical Education requirement.

Law Enf 24 Traffic Control and Vehicle Code (3) 3 hrs. Lec.

Prerequisite: L.E. 21 or concurrent enrollment. The study of traffic control and vehicle code problems.

Law Enf 25 Firearms (1)

3 hrs. Lab.

Prerequisites: L.E. 21 and permission of instructor. Open only to law enforcement majors. Survey of types and uses of law enforcement weapons.

Law Enf 26 Traffic Accident Investigation (3) 3 hrs. Lec.

Prerequisite: L.E. 21 or concurrent enrollment. The study and procedures of traffic accident investigation.

Law Enf 27 Custody and Detention (3) 3 hrs. Lec.

Prerequisite: None. A study of custody and detention practices, including responsibilities of law enforcement officials, and rights and privileges of detained persons. Consideration of control problems, overcrowding, health and phychological factors.

Law Enf 29 Police Report Writing (3)

3 hrs. Lec.

Prerequisites: None. The organization and preparation of written communications and reports, Emphasis on practical aspects of report preparation required from law enforcement officers in the course of their duties including reporting on mock crime scenes.

Law Enf 33 Criminal Law (3)

3 hrs. Lec.

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

Law Enf 34 Criminal Investigation (3)

3 hrs. Lec.

Prerequisites: L.E. 21 or concurrent enrollment. Fundamentals of investigation; techniques of crime scene recording and search; collection and preservation of physical evidence; modus operandi processes; sources of information; interview and interrogation; follow-up and case preparation.

Law Enf 35 Criminal Evidence (3)

3 hrs. Lec.

Prerequisites: L.E. 21 or concurrent enrollment. Origin, development and philosophy of rules of evidence, tests of admissibility, weight and value of types of evidence.

Law Enf 36 Criminal Procedure (3)

3 hrs La

Prerequisites: L.E. 21 or conconcurrent enrollment. General court procedure and judicial process. Principles of constitutional and civil law as applicable to police operations. Preparation for trial, courtroom testimony, moot court.

Law Enf 37 Juvenile Control (3)

3 hrs. L

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

Law Enf 38 Police-Community Relations (3) 3 hrs. Lec.

Current aspects and problems of Police-Community Relations, including the police role in the community; psychological and socological aspects of police-community relations; and police responsibility for organizing a police-community relations program; police-community relations training; and the role of the individual officer in police-community relations in American Society.

Law Enf 45 Basic Law Enforcement Orientation (12)

20 hrs. Lec.

A basic fourteen-week course for police officers who do not have equivalent training. The course follows the prescribed outline issued January 1970 by the Commission of Peace Officers Standard and Training. The course is restricted to those already employed by local law enforcement agencies. A student completing this course may not take the following courses for credit: Law Enforcement 21; Law Enforcement 22; Law Enforcement 23; Law Enforcement 25; and Law Enforcement 34.

LIBRARY TECHNICIAN

- L.T. 51 Introduction to Library Services (3) 3 hrs. Lec.

 Prerequisites: This course is an introduction to libraries and their organization. It is designed for students interested in employment in school, public, or college libraries as library technicians. Basic philosophy, procedures, tools, and techniques for library routines are emphasized.
- L.T. 52 Support for Technical Services (3) 3 hrs. Lec. Prerequisites: Library Technician 51 or consent of the instructor. An introduction to the various semi-professional tasks in the technical processes phase of library operation.
- L.T. 53 Support for Public Services (3)

 Prerequisites: Library Technician 51 or consent of the instructor. Library public relations, circulation control systems and location of information, through use of card catalogs, indexes, and basic reference books.
- L.T. 54 Introduction to Audiovisual Services (3) 3 hrs. Lec. Prerequisites: Library Technician 51 or consent of instructor. A survey course of the processes necessary for the utilization of audiovisual materials and equipment in the library situation.

MATHEMATICS

Whenever a mathematics class of any kind is a prerequisite, that mathematics class must be passed with a ${\bf C}$ or better grade.

Math 51 Basic Mathematics (3)

3 hrs. Lec.

Brief review of arithmetic including fractions, decimals, per cent, square root, and an introduction to algebra. This course is not open to students having satisfactory scores on mathematics placement tests.

Math X Beginning Algebra (3)

3 hrs. Lec.

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

Math Y Plane Geometry (3)

3 hrs. Lec.

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

Math A Intermediate Algebra (3)

3 hrs. Lec.

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

Math C Plane Trigonometry (3)

3 hrs. Lec.

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

SPECIAL NOTE: Mathematics courses 51, X, Y, A and C are treated by some universities and state colleges as high school subjects. It is the responsibility of the student to check the catalog of that institution to which he expects to transfer to identify deficiencies which must be removed or to plan the sequence of courses which must be completed.

Math 2 Advanced Algebra and Trigonometry (5) 5 hrs. Lec.

Prerequisite: Mathematics A or equivalent. This is a course intended for students who need a thorough foundation before attempting calculus. Included will be the study of the real number system; functions with special emphasis on exponential, logarithmic and trigonometric functions; the complex numbers; theory of equations; systems of equations; permutations, combinations, the binomial theorem, probability.

Math 3A Analytic Geometry and Calculus (5) 5 hrs. Lec.

Prerequisite: Math 2 or equivalent. Includes the study of inequalities, limits and continuity, differentiation of algebraic and transcendental functions, definite integrals, applications, parametric equations, arc length and some review of conics.

Math 3B Analytic Geometry and Calculus (5) 5 hrs. Lec.

Prerequisite: Mathematics 3A. Topics include Polar coordinates, vectors in a plane, formulas and methods of integration, applications, solid analytic geometry, vectors in three dimensions and elements of the infinite series.

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

Prerequisite: Mathematics 3B. Partial differentiation, multiple integration, ordinary differential equations, applications, and elements of linear algebra.

Math 6 Linear Algebra (3)

3 hrs. Lec.

Prerequisites: Math 3A and Math 3B with a grade of C or better. The course covers systems of linear equations, matrices and determinants, matrix algebra, given values, vector spaces, and linear transformations. Physical applications will be considered when appropriate.

Math 12 Elementary Statistics (3)

3 hrs. Lec.

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

Math 17 Mathematics for Business Analysis (3) 3 hrs. Lec

Prerequisites: Two years of high school algebra or the equivalent. Theory and practical applications to business and industry situations. Includes discounting, interest, taxes, annuities, insurance, depreciation, stocks and bonds, ratios, factoring, graphic presentations and special ideas from calculus.

Math 18 Introduction to Mathematics (3) 3 hrs. Lec.

Prerequisites: Mathematics X and Y 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. Includes course work in the theory of the structure of arithmetic and algebra of the real number system. Not intended for mathematics majors.

MUSIC

Mus 7 Music Fundamentals (3)

3 hrs. Lec.

Elementary music theory for the classroom teacher. Development of skills necessary to present music to children including notation, meter, rhythm, scales, intervals, triads and elementary keyboard facility.

Mus 8A-B Musicianship (2-2)

2 hrs. Lec.

Prerequisite: Mus 7 or approval of instructor. Required of all music majors. A course designed to present basic skills and theory of music for persons interested in a background for appreciation of or further studies in music. Skills to be studied and developed are sight singing, ear training, keyboard harmony and basic piano skills.

Mus 9A-B Elementary Harmony (3-3)

3 hrs. Lec.

Prerequisite: Music 7 or Mus 8A concurrently or consent of the instructor. Sight-singing, dictation and keyboard harmony. Traditional diatonic harmony, four-voice writing, analysis.

Mus 10A-B Class Piano (1-1)

l hr. Lec. 2 hrs. Lab.

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.

Mus 10C-D Class Piano (1-1)

l hr. Lec. 2 hrs. Lab.

Prerequisite: Music 10B or its equivalent. Introduction to the essentials of advanced piano study; pianistic techniques involved in selected literature from classic, romantic and modern compositions; participation in informal recitals.

Mus 15A-B Elementary Voice (1-1)

3 hrs. Lab.

The student receives guidance in the performance and appreciation of the various types of solo songs while acquiring the facilities for good vocal technique. Principles are applied through group and individual singing.

Mus 16 Intermediate Voice (1)

3 hrs. Lab. 1 hr. to be arranged

Prerequisites: Mus 15A-B. The student receives guidance in the performance and appreciation of the various types of solo songs while acquiring the facilities for good vocal technique. Principles are applied through group and individual singing.

Mus 17A-B-C-D College Chamber Singers (2-2-2-2) 3 hrs. Lab. 3 hrs. to be arranged

Prerequisite: Permission of the instructor. A performance organization presenting music of all styles, sound and secular, a capella and accompained. A minimum of six outside performances required each semester.

Mus 20A-B History and Literature of Music (3-3) 3 hrs. Lec.

Prerequisite: Mus 8A. The historical development of music with a study of various types of music from stylistic periods as a medium of cultural development. Intended as a background toward further studies in music for the music major and persons interested in a thorough background for enjoying music.

Mus 21A-B-C-D Instruments (2-2-2-2)

l hr. Lec. 2 hrs. Lab.

Depth study and performance of literature for brass, woodwind, string and percussion instruments.

Mus 25A-B-C-D Stage Band (1-1-1-1)

l hr. Lec. l hr. Lab.

Prerequisites: Audition and permission of instructor. Techniques and literature of the stage band. A lab situation in popular and jazz music with opportunities for the development of skill in performing, arranging and improvisation.

Mus 26A-B-C-D Rehearsal and Performance (1-1-1-1) 3 hrs. Lab. 3 hrs. Lab.

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

Mus 27A-B-C-D (1-1-1-1)

3 hrs. Lab.

A performance organization specializing in literature for wind instruments. Student capability to perform a wind instrument are developed as far as possible with special emphasis on correct techniques for performing band and wind ensemble music. Performance as community and college events is required. Field trips to music events is required in order to form a background for efficient listening and evaluating practices.

Mus 28A-B-C-D College Chorus (1-1-1-1) I, 3 hrs. Lab.

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

Mus 30 Music Structure and Style (3) 3 hrs. Lec.

An introduction to music for the non-music major. A study of the materials of music with emphasis upon development of listening skills. A presentation of the structure and style of the major media and forms of music.

Mus 50A-B Basic Recreational Piano (1-1) 1 hr. Lec. 2 hrs. Lab.

For classroom teacher, church pianist and recreation. Emphasis upon accompanying skills, playing by ear and chording.

Mus 51A-B Intermediate Recreational Piano (1-1) 1 hr. Lec. 2 hrs. Lab.

Prerequisites: Basic Piano 50 or consent of instructor. Emphasis on accompanying skills, chording, playing by ear.

Mus 70 Ensemble and Chamber Music (1) 2 hrs. Lab. Prerequisite: Consent of instructor. Workshop sessions with community resource personnel in the areas of specialization such as woodwind, string, brass, vocal, etc. The purpose is to provide experience in ensemble performing for students interested in further studies in music.

Mus 71A-B-C-D Imperial Valley College Chorale (1-1-1-1) 2 hrs. Lab

Prerequisite: Consent of the instructor. A community service course designed to give an opportunity to those interested in performing in a general chorus,

NATURAL SCIENCE

Nat Sci 51 Survey of the Earth Sciences (3) 3 hrs. Lec.

A junior college general education course to acquaint the student with some principles of the earth sciences including sections on astronomy, meteorology, oceanography, geology and physical geography. Not open to students with credit in Geog 1, Geol 2, Geol 1A-B, or Astron 1.

NURSING - VOCATIONAL

Voc Nurs 50 Clinical Fundamentals (5)

I hr. Lec.

Prerequisite: Enrollment in the nursing program. Orientation to nursing. Basic nursing procedures. Medical and surgical conditions. Clinical experience in hospital.

Voc Nurs 51 Clinical Fundamentals (5)

l hr. Lec. 20 hrs. Lab.

Prerequisite: Enrollment in the nursing program. Total patient care, including more complex procedures and medications. Clinical experience in hospital.

Voc Nurs 52 Clinical Fundamentals (5)

l hr. Lec. 20 hrs. Lab.

Prerequisite: Enrollment in the nursing program. Intensive and comprehensive nursing techniques. Clinical experience in hospital.

Voc Nurs 61 Musculo-skeletal System (4) 4 hrs. Lec. Prerequisite: Enrollment in the nursing program. Gross anatomy and physiology. Diseases, medical and surgical treatments. Nursing care, rehabilitation.

Voc Nurs 62 Circulatory System (4) 4 hrs. Lec.

Prerequisite: Enrollment in the nursing program. Gross

anatomy and physiology. Diseases, medical and surgical treatments. Nursing care, rehabilitation.

Voc Nurs 63 Respiratory System (2)

2 hrs. Lec.

Prerequisite: Enrollment in the nursing program. Gross anatomy and physiology. Diseases, medical and surgical treatments. Nursing care.

Voc Nurs 64 Geriatrics (1)

l hr. Lec.

Prerequisite: Enrollment in nursing program. Study of the aged, specific diseases and problems with related nursing care. Rehabilitation.

Voc Nurs 71 Digestive System (4)

4 hrs. Lec.

Prerequisite: Enrollment in the nursing program. Gross anatomy and physiology. Diseases, surgical and medical treatments. Diets, medications, nursing care.

Voc Nurs 72 Nervous System (4)

4 hrs. Lec.

Prerequisite: Enrollment in the nursing program. Gross anatomy and physiology. Normal and abnormal behavoir. Medications and related nursing care.

Voc Nurs 73A Professional Relations (I)

I hr. Lec.

Prerequisite: Introduction to nursing with the nurse-patient relationship; ethics and the legal aspects.

Voc Nurs 73B Community Health (1)

1 hr. Lec.

Prerequisite: Enrolled in the nursing program. Study of communicable diseases and health environment.

Voc Nurs 74 Endocrine System (1)

1 hr. Lec.

Prerequisite: Enrollment in the nursing program. Diseases, treatment, medication. Nursing care. Gross anatomy and physiology.

Voc Nurs 81 Excretory System (2)

2 hrs. Lec.

Prerequisite: Enrollment in the nursing program. Gross anatomy and physiology. Medical and surgical treatments. Medications and related nursing care.

Voc Nurs 82 Reproductive System (4)

4 hrs. Lec.

Prerequisite: Enrollment in the nursing program. Gross anatomy and physiology. Specific related study and nursing care. Medications, medical and surgical treatment.

Voc Nurs 83 Care of the Newborn (2)

2 hrs. Lec.

Prerequisite: Enrollment in the nursing program. Growth and development. Communicable diseases of childhood. Immunization and treatments. Prevention of diseases. Treatment and nursing care.

NURSING - REGISTERED

The Registered Nurse Program (four Semesters and one three-week summer session in length) prepares the student to receive the Associate in Science degree from the College and be eligible to write the examination given by the California Board of Nursing Education and Nurse Registration to obtain licensure as a Registered Nurse. The program prepares men and women to give direct nursing care to patients in hospitals, clinics, and similar community health-care agencies. Courses in general education and nursing are taken at the college campus. Nursing laboratory experiences are offered at selected area hospitals and other health agencies under the guidance of nursing faculty members.

Students are admitted once a year in September. A Nursing Admissions Committee will review all applications. Early application (through the College counseling department) is recommended, since the number of students who can be admitted is limited. Admission requirements include high school graduation (or its equivalent), a year of high school chemistry and biology (or their college equivalent), eligibility to take the English 1A course (as determined by College placement tests), physical and dental examinations (including specified immunizations) and an interview with a member of the nursing faculty. Applicants with prior education in nursing (R.N. or L.V.N.) may apply for credit by examination and/or advanced placement. This will be determined on an individual basis.

For continuation in the program, a grade of C or better is required in all nursing courses. An overall 2.00 grade point average (C=2.00) must be maintained in order to enroll in each succeeding semester of the program. The College graduation requirements in Health Education and Mathematics are waived for R.N. students. The nursing faculty reserves the right to recommend that a student be asked to withdraw from the nursing program at any time if academic, clinical, health or personal standards are not maintained.

CURRICULUM First Year R.N 1-2 Registered Nursing Anat 10 Anatomy-Physiology Psych 1A, Gen. Psychology Physical Education Bio 21 Gen. Microbiology Sociol 1 Prin. of Sociology Eng 1A Reading and Comp.	3 1/2	Units 2nd S. 6
	141/2	161/2
Summer Session R.N. 3 Registered Nursing		
R.N. 45 Registered Nursing	. 3 . 3 . ½	10 3 1/2 3
	151/2	161/2

R.N. 1 Registered Nursing (6)

3 hrs. Lec.

Prerequisite: Admission to ADRN Program. Introduction to nursing including role and functions of the nurse in health and illness. Historical foundations and trends of nursing and healthcare. Theory and integrated clinical experiences in basic nursing principles and skills which meet nursing needs common to individuals of all ages. Mental health concepts based on normal needs of individuals stressed. Community resources for health care, legal responsibilities of the nurse, communication skills, principles of growth and development, pharmacology, nutrition in health and disease all integrated throughout nursing program.

R.N. 2 Registered Nursing (6)

3 hrs. Lec. 9 hrs. Lab.

Prerequisite: R.N. 1. Concepts of maternal and infant health preceding, during, and following normal birth with special emphasis on the role of the family. Community resources that contribute to welfare of mothers, children, and the family stressed. Interrelatedness of emotions and organic disease introduced. Physiological and psychological responses to trauma and disease studied as are the more common health problems encountered by individuals of all ages. Clinical experiences concurrent throughout.

R.N. 3 Registered Nursing (2) 3-week summer session

6 hrs. Lec. 18 hrs. Lab.

Prerequisite: R.N. 1 and 2, Psychology 1. Role of the nurse in interacting with individual or groups of mentally ill patients in selected settings. Emphasis on skills needed to meet nursing needs of individuals whose thought processes and behavior interfere with normal living. Experience in participating with the interdisciplinary psychiatric team.

R.N. 4 Registered Nursing (9)

4 hrs. Lec. 15 hrs. Lab.

Prerequisite: R.N. 1, 2, 3. Development of skills and attitudes required to give nursing care to individuals of all ages with more complex health problems. Special needs of patients before, during, and after surgery included. Nursing needs of complications of pregnancy and the newborn studied. Clinical experiences concurrent with theory. Pharmacology, diet therapy, and mental health concepts continue to be integrated throughout.

R.N. 5 Registered Nursing (10)

5 hrs. Lec. 15 hrs. Lab.

Prerequisite: R.N. 1, 2, 3, 4. Skills required to plan, carry out and evaluate total nursing care of patients of all ages with complex health problems. The need for patient teaching, rehabilitation and community resources are stressed. Opportunity given to work with groups of patients and to participate in nursing team leadership. Trends in nursing and health care as well as career opportunities for registered nurses discussed.

PHILOSOPHY

Phil IA-B Introduction to Philosophy (3-3)

3 hrs. Lec.

Man's interpretation of the nature and meaning of reality, conduct, and his own thinking. A very brief introduction to the principles of valid reasoning. 1B may be taken before 1Å.

Phil 10 Logic (3)

3 hrs. Lec.

An introduction to deductive and inductive logic. Attention focused upon the relationship between logic and language, fallacies, and the use of logic in every day life.

Phil 11 Ethics (3)

3 hrs. Lec.

An introduction to significant and typical value theories and systems, and of the concrete problems such theories seek to explain. Emphasis placed upon teaching students to critically analyze their own value systems.

Phil 25 Religions of the Modern World (3) 3 hrs. Lec.

An introduction to the various contemporary religions of the world with an emphasis on their historical development. Study of basic beliefs of such religions as Hinduism, Buddhism, Taoism, Zen.

PHYSICAL SCIENCE

Phys Sci 25 Introduction to Physical Science (4) 3 hrs. Lec. 3 hrs. Lab.

Selected topics in physical science. The relations of physical science to modern life through emphasis on the scientific method. Designed for those intending to take only one semester of physical science. May be combined with Biology 3 for a year course in the basic principles of natural science.

PHYSICS

Phys 2A-B General Physics (4-4)

3 hrs. Lec. 3 hrs. Lab.

Prerequisites: Algebra and geometry, trigonometry strongly recommended. Properties of matter, mechanics, heat, sound, magnetism, light and modern physics.

Phys 4A Principles of Physics (4)

3 hrs. Lec. 4 hrs. Lab.

Prerequisite: Credit for or concurrent enrollment in Math 3A. This course is designed to give an understanding in the fundamental principles of mechanics.

Phyc 4B Principles of Physics (4)

3 hrs. Lec. 4 hrs. Lab.

Prerequisite: Physics 4A and credit or concurrent enrollment in Math 3B. This course is designed to give an understanding of the fundamental principles of physics in the areas of electricity and magnetism.

Phys 4C Principles of Physics (4)

3 hrs. Lec. 4 hrs. Lab.

Prerequisites: Physics 4B and completion of Math 3B. This course is designed to give an understanding of the fundamental principles of physics in the area of heat, wave motion, sound, light, and modern physics.

PHYSIOLOGY

Physio l Human Physiology (4)

2 hrs. Lec. 6 hrs. Lab.

Prerequisites: Chemistry and Biology or Anatomy at either high school or collegiate level. The functions of the human body; emphasis on the circulatory, muscular, and nervous systems.

POLITICAL SCIENCE

Poly Sci 1 Introduction to Political Science (3) 3 hrs. Lec.

An introduction to the theories, principles and problems of modern political life and the methods of studying and acquiring political knowledge. Illustrative materials drawn primarily from the American experience. This course and either Political Science 2 or History 17B will meet graduation requirements in American institutions.

Poly Sci 2 American Government and Politics (3) 3 hrs. Lec.

The origin, development and operation of local, state and national political institutions in the United States emphasizing the contemporary operations of the American political system. This course and either Political Science 1 or History 17A will meet graduation requirements in American Institutions. May be taken before Political Science 1.

Poly Sci 3 Comparative Politics (3)

3 hrs. Lec.

Prerequisite: Political Science 1 or 2. A comparative study of modern political systems. Emphasis upon patterns of political action and problems of decision-making in various cultural contexts.

Poly Sci 14 Introduction to International Relations (3) 3 hrs. Lec.

Prerequisite: Political Science 1 and 2. An introductory course stressing the techniques of analysis of the basic factors making for conflict and adjustment in contemporary international relations. Problems of nationalism and imperialism, elements of national power, causes of war, methods of seeking peace, the role of international organizations, and the foreign policies of the major powers will be considered. Emphasis will be upon contemporary developments.

Poly Sci 51 The Constitution in Action (2) 2 hrs. Lec.

A study of the role which the Federal Constitution plays in the daily life of the citizen. Emphasis focused upon judicial interpretations of the Bill of Rights.

Poly Sci 53 Contemporary World Affairs (2) 2 hrs. Lec.

A study of contemporary national and international affairs. Provides historical background necessary to understanding the changing course of current events.

PSYCHOLOGY

Psych IA General Psychology (3) 3 hrs. Lec.

Prerequisite: Admission by placement examination. An introduction to the fundamental principles and concepts which are basic to an understanding of human behavior. Includes consideration of behavior development, learning, biological basis of behavior, conflict and ineffective behavior, mental hygiene, and motivation and emotion.

Psych 1B Advanced General Psychology (3) 3 hrs. Lec.

Prerequisite: Psychology I.A. This course is designed to enhance and continue exploration of the basic principles of psychology with emphasis in the areas of perception, individuality and personality, and social behavior.

Psych 2 Physiological Psychology (3) 3 hrs. Lec.

Prerequisite: Psychology 1. An introduction to the function of experimental methodology in the investigation of physiological processes in psychology. Emphasis is placed upon those physiological mechanisms which provide a basis for perception, learning, motivation, and other complex patterns of behavior.

Psych 3 Psychology of Personal and Social Adjustment (3)

Prerequisite: Psychology 1. The development of the normal personality, with particular emphasis placed upon the social and emotional problems of adjustment. Formerly Psychology 33.

Psych 52 Psychology of Effective Behavior (3) 3 hrs. Lec.

A survey of some of the relevant psychological facts, principles, and concepts involved in the experience and problems of everyday living. An experimental approach, including emphasis upon child training, vocational adjustment, mental hygiene, and effective behavior. Not open to students who have completed Psychology 1A.

SOCIAL SCIENCE

Soc Sci 51 Introduction to American Society (3) 3 hrs. Lec.

An introduction to the foundations and major characteristics of American society, stressing the basic cultural patterns, institutions, and the social problems of the American people. Not open to students with credit in Sociology 1 or 2.

Soc Sci 52 Introduction to American Government (3) 3 hrs. Lec.

An introduction to the foundations and major characteristics of the governments of the United States and California, stressing the political habits of the American people within a historical setting. This course will meet the graduation requirement in American Institutions at Imperial Valley College, but is offered to students who do not intend to transfer to senior institutions. Not open to students with credit in History 17A-B or Political Science 1, 2.

Soc Sci 53 Introduction to Economics (3) 3 hrs. Lec.

An introduction to the development of modern economic institutions, stressing the economic habits of the American people. Topics include: capitalism, trade unions, and governmental involvement in the economy. Not open to students with credit in Economics 1A or 1B.

Soc Sci 54 Introduction to Geography (3) 3 hrs. Lec.

An introduction to the physical and cultural geography of the world, stressing those features which have shaped the development of the United States. Not open to students with credit in Geography 1 or 2.

Soc Sci 62 Personal Finance (3) (Same as Bus 62.)

3 hrs. Lec.

of social problems.

SOCIOLOGY

Social 1 Principles of Socialogy (3)

A study of the characteristics of social life which emphasizes the processes of social interaction, the tools of social logical investigation, and the development and application

of sociological concepts to social problems in the United States.

Social 2 Contemporary Social Problems (3) 3 hrs. Lec.
Prerequisite: Socialogy 1 or Psychology 1A. study of
modern social problems emphasizing the use of the scientific method in evaluating the causation and resolution

Social 33 Marriage and the Family (3) 3 hrs. Lec.

An analysis of factors predictive of successful martial adjustment. Attention focused upon such family processes as courtship, marriage, reproduction, child rearing, and marital dissolution.

SPANISH

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the foreign language requirement in various majors. These high school courses will not count as college credit toward graduation. Placement will be made by examination and/or consent of the instructor. Contact the IVC counseling office for further information.

The last year-course taken by a student in the high school language sequence may be repeated in college for graduation credit, not to exceed four units of repeated foreign language work.

Span 1 Elementary Spanish (4) 4 hrs. Lec. 2 hrs. Lab.

The course, based on a contrastive analysis between Spanish and English, is designed to develop, in the English-speaking student, rudimentary abilities in the four basic language skills: hearing, speaking, reading and writing. The student will be familiarized with those features of Hispanic culture which reflect the different frame of reference from which the native speaker of Spanish views the world around him. Not open to students with native ability in Spanish.

Span 2 Elementary Spanish (4)

4 hrs. Lec. 2 hrs. Lab.

Prerequisite: Spanish I or one year of high school Spanish. Continuation of Spanish I. Not open to students with native ability in Spanish.

Span 3 Intermediate Spanish (4)

4 hrs. Lec. 2 hrs. Lab.

Prerequisite: Spanish 2 or two years of high school Spanish. This course deals primarily with the more complex grammatical structures and figures of speech found in the written language. From the beginning, each student will participate in a programmed review of the fundamental principles of Spanish grammar.

Span 4 Intermediate Spanish (4)

4 hrs. Lec. 2 hrs. Lab.

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

Span 5 Spanish Conversation and Composition (3) 2 hrs. Lec. 1 hr. Lab.

Prerequisites: Spanish 4 and at least one course in Conversational Spanish or by examination. Students who have had four years of high school Spanish may request an examination and be enrolled by consent of the instructor. Advanced Spanish. Study and discussion of the short story. Imitation of short written selections and original student compositions.

Span 10 Conversational Spanish (2)

2 hrs. Lec.

Prerequisites: Spanish 1 & 2 or two years of high school Spanish. This course is designed to improve the student's ability to converse freely in Spanish by means of special vocabulary building exercises and guided conversation.

Span 11 Conversational Spanish (2)

2 hrs. Lec. 1 hr. Lab.

Prerequisite: Spanish 3 or 10. Continuation of Spanish 10.

Span 21 Spanish for Bilingual Students (3) 3 hrs. Lec

A course designed in an effort to further develop the ability of the bilingual student to use standard Spanish as opposed to colloquial Spanish, in a manner comparable to students in Hispanic universities. Intensive vocabulary building and translating, grammar and composition.

Span 22 Spanish for Bilingual Students (3) 3 hrs. Lec.
Prerequisites: Spanish 21 or placement by examination.
A continuation of Spanish 21. Intermediate oral and written composition. Intensive use of the laboratory to improve oral ability.

Span 23 Business Correspondence in Spanish (3) 3 hrs. Lec. Prerequisites: Bilingual fluency and/or consent of instructor. Recommended for bilingual secretaries with a basic background in English business courses. A study of the elements and skills for effective business comunications. Practice in business vocabulary, spelling and punctuation. Differences and similarities in English and Spanish business correspondence will be stressed.

Span 24 Introduction to Spanish Literature for Bilinguals (3)

Prerequisite: Spanish 22 or consent of instructor. Introduction to the more important movements, authors, and works in Spanish literature from the Middle Ages to the present. Lecture; readings on assigned topics.

Span 25 Introduction to Spanish-American
Literature for Bilinguals (3) 3 hrs. Lec.
Prerequisite: Consent of instructor. An introduction to the more important movements, authors and works in Spanish-American literature from the Conquest to the present time.
Lectures; readings on assigned topics.

Span 40 Spanish Civilization (3)

A general survey of the physical, racial, historical and artistic influences which have molded Spanish culture. Illustrated lectures in English. Outside readings and written reports on assigned topics.

Span 41 Spanish-American Civilization (3) 3 hrs. Lec.
Conducted in English. A general survey of the major currents and characteristics of Spanish-American culture as expressed through the centuries in literature, art and philosophy. Illustrated lectures on history, geography, customs, folklore, etc. Spanish emphasis on Mexico.

Span 51A-B Everyday Spanish (2-2) 2 hrs. Lec. 1 hr. Lab.

A course designed to give the non-transfer student a basic ability in everyday Spanish. The course will emphasize vocabulary building, conversational skills, and listening comprehension.

SPECIAL STUDIES

Special	Studies	51	Vocational Education (1-3)	1-3	hrs.
Special	Studies	52	Humanities (1-3)	1-3	hrs.
Special	Studies	53	English (1-3)	1-3	hrs.
Special	Studies	54	Natural Science (1-3)	1-3	hrs.
Special	Studies	55	Social Science (1-3)	1-3	hrs.
Special	Studies	56	Business (1-3)	1-3	hrs.
				1-3	hrs.
	Special Special Special Special Special	Special Studies Special Studies Special Studies Special Studies Special Studies Special Studies	Special Studies 52 Special Studies 53 Special Studies 54 Special Studies 55 Special Studies 56 Special Studies 57	Special Studies 51 Vocational Education (1-3) Special Studies 52 Humanities (1-3) Special Studies 53 English (1-3) Special Studies 54 Natural Science (1-3) Special Studies 55 Social Science (1-3) Special Studies 56 Business (1-3) Special Studies 57 Health, Physical Education, and Recreation (1-3)	Special Studies 52 Humanities (1-3) Special Studies 53 English (1-3) Special Studies 54 Natural Science (1-3) Special Studies 55 Social Science (1-3) Special Studies 56 Business (1-3) Special Studies 57 Health, Physical Education,

Special Studies 51-57 Course Description

Course content, prerequisites, and unit credit to be determined by the division and the office of instruction in relation to community-student interest and available staff. Not offered every semester.

SPEECH

Sp 1 Oral Communication (3)

Training in the fundamental processes involved in oral communication with emphasis on organizing material, outlining, construction, and delivery of various forms of speeches.

Sp 2 Intermediate Public Speaking (3)

3 hrs.

Prerequisite: Speech 1. A continuation of Speech 1 with particular emphasis on organization and delivery, and study in the areas of parliamentary procedure, debate, discussion, and oral reading.

Sp 10 Argumentation and Debate (3)

3 hrs. Lec.

Prerequisite: Speech 1, taken previously or concurrently.

An introduction to the problems of evidence and inference, with emphasis on the application of logic to rational discussion of social problems.

Sp 11 Oral Interpretation (3) 3 hrs. Lec.

Discovering and imparting, vocally, intelligent and emotional meanings of the printed page.

Sp 12A-B-C-D Forensics (1-1-1-1)

Prerequisites: Eligibility for English 1A and permission of the instructor. Speech 1 and 2 recommended. Enrollment contingent upon participation in forensics, or competitive, speech activities as a member of the IVC Speech Team. Student must be prepared to meet the following: 1) be present at at least 15 regular sessions with instructor during the semester (by arrangement with instructor); 2) be prepared to attend at least two forensic meets during the semester.

Sp 51 Basic Speech (3)

3 hrs. Lec.

Designed to assist the student in achieving effective personal communication. Emphasis is given to self-improvement drills involving voice projection, articulation, pronunciation, movement and other basic speech fundamentals. Recommended for students taking English 51.

WELDING

Welding 30 Arc Welding (3)

2 hrs. Lec. 2 hrs. Lab.

Theory, practice and application of arc welding processes. Flat, horizontal, vertical and overhead positions. Mild steel, stainless steel and cast iron. Electrode classification and application. Joint design and mechanical testing.

Weld 32 Gas Welding (3)

2 hrs. Lec. 2 hrs. Lab.

Theory, practice and application of joining metals by the oxyacetylene process. Metal cladding, cutting and brazing. Mild steel, cast iron, aluminum, copper and nickel alloys. Introduction to resistance, tungsten-inert-gas, and metallic-inert-gas processes.

Weld 34 Gas Shielded Arc Welding (3)

2 hrs. Lec. 2 hrs. Lab.

Theory, practice and application of tungsten-inert-gas and metallic-inert-gas processes. Mild steel, stainless steel, cast iron, aluminum, copper and nickel alloys. Includes expansion, contraction, distortion and strength of welded joints.

Weld 36 Advanced Welding (3)

2 hrs. Lec. 2 hrs. Lab.

Prerequisites: Welding 30 and Welding 32 or Welding 34. Application of welding processes to production techniques. Special projects for individual students. Metal construction, fabrication, metal sculpture and metalcraft projects. Work to be in the field of welding experience.

WORK - EXPERIENCE

Work Experience Education is a cooperative educational program by Imperial Valley Community College and the community employers. The college provides the organization, the coordination, class facilities and the personnel to coordinate the program. The employers provide places to work (work stations) and on-the-job training which has educational value for the students. Sixteen units of work experience education may be allowed toward graduation with the associate degree.

W.E. Gen. 62A Practical Psychology in Business Life (3)

l hr. Lec. 10 hrs. Lab.

Psychology and its application to employees and employers. Emphasis is placed on the capacity and efficiency of getting things done. Laboratory work will be arranged with the employer. The work may be in any occupation, but must have educational value for the student.

W.E. Gen. 62B Your Personal Efficiency (3) 1 hr. Lec. 10 hrs. Lab.

Improvement of the employee through improved word power and remembering more. Landing a job that fits and advancing on the job. Laboratory work will be arranged with the employer. The work may be in any occupation, but must have educational value for the student

W.E. Gen. 62C Human Relations and Motivation (3)

l hr. Lec. 10 hrs. Lab

Human relations on the job is everybody's business. What companies do about human relations and motivation. Laboratory work will be arranged with the employer. The work may be in any occupation, but must have educational value for the student.

W.E. Gen. 62D Personality Health for Personal Leadership (3)

1 hr. Lec. 10 hrs. Lab.

Personality health and its relation to successful work. Personal leadership development among employees and employers. Laboratory work will be arranged with the employer. The work may be in any occupation, but must have educational value for the student.

W.E. Gen. 62E Manpower and Work Experience (3) Summer only

l hr. Lec. 30 hrs. Lab

Historical background, present institutional and legal forces shaping hired labor; employee procurement, labor-management relations, and the collective bargaining process. Laboratory work will be arranged with the employer. The work may be in any occupation, but must have educational value for the student.

W.E. Voc. 63A Practical Psychology in Business Life (4)

l hr. Lec. 15 hrs. Lab.

Psychology and its application to employees and employers. Emphasis is placed on the capacity and efficiency of getting things done. Laboratory work will be arranged with the employer. The work must be in the field of the student's planned course of occupational training.

W.E. Voc. 63B Your Personal Efficiency (4) 1 hr. Lec. 15 hrs. Lab.

Improvement of the employee through improved word power and remembering more. Landing a job that fits and advancing on the job. Laboratory work will be arranged with the employer. The work must be in the field of the student's planned course of occupational training.

W.E. Voc. 63C Human Relations and Motivation (4) 1 hr. Lec. 15 hrs. Lab.

Human relations on the job is everybody's business. What companies do about human relations and motivation. Laboratory work will be arranged with the employer. The work must be in the field of the student's planned course of occupational training.

W.E. Voc. 63D Personality Health for Personal Leadership (4)

l hr. Lec. 15 hrs. Lab.

Personality health and its relation to successful work. Personal leadership development among employees and employers. Laboratory work will be arranged with the employer. The work must be in the field of the student's planned course of occupational training.

W.E. Voc. 63E Manpower and Work Experience (4) Summer only 2 hrs. Lec. 40 hrs. Lab.

Historical background, present institutional and legal forces shaping hired labor; employee procurement, labor-management relations, and the collective bargaining process. Laboratory work will be arranged with the employer. The work must be in the field of the student's planned course of occupational training.

ZOOLOGY

Zool 1A General Zoology (4)

2 hrs. Lec. 6 hrs. Lab.

Prerequisite: Any year course in a high school laboratory science or the equivalent. Introduction to basic principles of animal biology with reference to structure, functions, classification, heredity, and the environment of animals in general and of invertebrates in particular.

Zool 1B General Zoology (4)

2 hrs. Lec. 6 hrs. Lab.

Prerequisite: Zoology 1A. Continuation of Zoology 1A with emphasis upon comparative anatomy and physiology, development of vertebrate forms and their interrelationships.

MAJORS

Generally, twenty units in a specified field of study will satisfy requirements for a Major. However, some majors (e.g. Nursing) may require additional study. An IVC counselor should be contacted if you have any questions.

ACCOUNTING

I.	Required course Bus 1A-B Bus 6 Bus 10A-B Bus 25 Bus 40	es for the major Principles of Accounting
II.	Recommended	courses
	Bus 11 Bus 21 or Bus 22A-B Bus 17	Business Correspondence
III.	Acceptable cou	arses for the major from related fields
	Econ 1A-B Math 12	Principles of Economics
	A	GRICULTURE BUSINESS
I.	Required cours Ag 25 Ag 26	Ses for the major Introduction to Agriculture Business Management
II	Recommende	d courses
	W.E. 63A W.E. 63B W.E. 63C W.E. 63D	Practical Psychologyin Business Life

III.	Acceptable co	urses for the major from related fields
	Bus 10A-B or Bus 53 Bus 21 Bus 25 Bus 50A-B or Bus 1A-B Bus 52 Bus 61 Bus 63	Business Law
	AGRICULT	URAL CHEMICAL TECHNOLOGY
I.	Required cours	ses for the major
	Ag 14 Ag 31A Ag 40 Ag 41 Ag 49	Intro to Entomology (2) Farm Machinery (2) Soils (3) Fertilizers & Soil Fertility (3) Weeds and Poisonous Plants (3)
II.	Recommended	courses
	Ag 30 Ag 31B Ag 32 Ag 33A Ag 61 Ag 65 Ag 71 W.E. 63A W.E. 63B W.E. 63C W.E. 63D	Agricultural Mechanics (2) Farm Machinery (2) Irrigation and Drainage (3) Farm Power (5) Commercial Fertilizers (3) Control of Insects and Other Pests (2) Equipment Operation & Maintenance (3) Practical Psychology in Business Life (4) Your Personal Efficiency (4) Human Relations and Motivation (4) Personality Health for Personal Leadership (4)
III.	Acceptable cou	arses for the major from related fields
	Chem 12 Chem 2A Eng 47 Math 12 Weld 30 A	Manpower and Work Experience (2) General Botany (4) General Botany (5) General Inorganic Chemistry (5-5) Organic Chemistry (4) Introduction to Chemistry (4) Fechnical and Report Writing (3) Flementary Statistics (3) For Welding (3) For We

AGRICULTURAL ENGINEERING

1.	Required courses	for the major
	Ag 30 Ag 31A-B Ag 33A or Auto Tech 51 Weld 30 Weld 32	Agricultural Mechanics (2) Farm Machinery (2-2) Farm Power (5) Automotive Technology (5) Arc Welding (3) Gas Welding (3)
II.	Recommended co	urses
	Ag 33B Ag 35 Ag 36 Ag 71 W.E. 63A W.E. 63B W.E. 63C W.E. 63D	Farm Power
	W.E. 63E	Manpower and Work Experience (2)
III.	Acceptable cours	es for the major from related fields
	Engr 2A-B Engr 18A-B Engr 21 Engr 23 Engr 30 Engr 55 Engr 61A-B Engr 65 Engr 65 Engr 47 Math 3A Math 3B Math 3B Math 4A Phys 4A Phys 4B Phys 4C	Engineering Drawing

ANIMAL SCIENCE

1.	Required co	ourses for the major
	Ag 20 Ag 21 Ag 22 Ag 23	Animal Science
II.	Recommend	ed courses
	Ag 14 Ag 30 Ag 31A-B Ag 33A Ag 42 Ag 71 W.E. 63A W.E. 63B W.E. 63C W.E. 63D	Entomology (2) Agricultural Mechanics (2) Farm Machinery (2-2) Farm Power (5) Plant Science and Forage Crops (4) Equipment Operation & Maintenance (3) Practical Psychology in Business Life (4) Your Personal Efficiency (4) Human Relations and Motivation (4) Personality Health for Personal Leadership (4) Manpower and Work Experience (2)
III.	Acceptable	courses for the major from related fields
	Chem 1A-B Chem 12 Chem 2A Weld 30 Weld 32 Zool 1A Zool 1B	General Inorganic Chemistry (5-5) Organic Chemistry (5) Introduction to Chemistry (4) Arc Welding (3) Gas Welding (3) General Zoology (4) General Zoology (4)
		ART
1.	Required co	urses for the major
	Art 3A or 3I Art 20A-B Art 22A	History and Appreciation of Art (3) Elementary Drawing
	Note: Art 20	A-20B must be taken the first year.

	II.	Recommended	courses
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	Art	21A-B 22B 23A 23B 23C 24A-B 25 26A 27A	History and Appreciation of Art (3 Intermediate Drawing & Painting (3 Design (3 Ceramics (3 Ceramics (3 Ceramics (3 Ceramics (3 Ceramic Sculpture (3 Life Drawing (3 Design in Crafts (3 Creative Handweaving (3 Crafts (3 Art Gallery Display (3)	3-3) 3) 3) 3) 3-3) 2) 3) 3)
II	I. Acc	ceptable cours	es for the major from related fields	
	Hu	m 25	The Humanities(3)

**Strongly recommended

of Art 21A-B courses the following year.

AUTOMOTIVE TECHNOLOGY

*Should be taken first year if possible to allow for sequence

1. Required courses for the major

Auto Tech 51 Auto Tech 52	Automotive Technology or equivalent (5) Transmission Systems(3)
Auto Tech 53	Brakes and Suspension
Auto Tech 55	Gasoline and Diesel Engines(5)
Auto Tech 5b	Diagnostic(3)

II. Recommended courses

W.E. 63A W.E. 63B	Practical Psychology in Business Life (4) Your Personal Efficiency (4)
W.E. 63C W.E. 63D	Human Relations and Motivation (4) Personality Health for Personal
W.E. 63E	Leadership(4) Manpower and Work Experience(2)

III. Acceptable courses for the major

Weld 30	Arc Welding (3)
Weld 32	Gas Welding(3)
Eng 47	Technical and Report Writing(3)
Auto Tech 71	Auto Tuneup (3)
Auto Tech 72	Engine Repair(3)

BEHAVIORAL SCIENCE

1. Required courses for the major

The require	ement for c	major in Beha	avioral Science may one of the following	
		an oddred m	one of the following	
three group				
Anthropolo	ЭY			
Anthro 1	Physical	Anthropology	(3)	
		Anthropology		
Anthro 2	(31/1117/7/	Anthronology	(3)	

Anthro Z	Cultural Anthropology(3)
Anthro 3	Introduction to World Prehistory(3)
Psychology	* ******
Psych 1A	General Psychology(3)
Pshch 1B	Advanced General Psychology(3)
Psych 2	Intro to Physicological Psychology(3)
Psych 3	Psychology of Personal
437495 25 sai	and Social Development(3)
Sociology	
Sociol 1	Principles of Sociology(3)
Sociol 2	Contemporary Social Problems(3)
Sociol 33	Marriage and the Family(3)

II. Acceptable courses for the major related fields

Econ 1A	Principles of Economics(3)
Geog 1	Physical Geography(3)
Geog 2	Cultural Geography(3)
Hist 4A-B	History of Western Civilization(3-3)
Hist 8A-B	History of the Americas(3-3)
Hist 17A-B	United States History(3-4)
Hist 30	Mexico and the American Southwest (3)

III. Recommended courses from other fields

Bio 3	Principles of Biological Science(3)
Econ 1A	Principles of Economics(3)
Math 12	Elementary Statistics(3)
Math 18	Introduction to Mathematics(3)
Phil 1A-B	Introduction to Philosophy(3)
Poly Sci 1	Introduction to Political Science(3)
Poly Sci 2	American Government & Politics (3)
Poly Sci 3	Comparative Politics(3)
Poly Sci 51	The Constitution in Action(3)
Poly Sci 53	Contemporary World Affairs(3)

Transfer students planning to major in these areas should take the General Major, I.V.C., and complete requirements listed in catalog of the school to which they anticipate transferring.

BOOKKEEPING

1.	Required cours	es for the major
	Bus 50Å-B * or Bus 1A-B Bus 25 Bus 51 or Bus 6 Bus 63	Practical Bookkeeping (3-3) Principles of Accounting (4-4) Office Machines (3) Orientation to Business (3) Introduction to Business (3) Records Management (3)
II.	Recommended	courses
	Bus 21 or Bus 22A-B Bus 37 Bus 40 Bus 53 or Bus 10A-B Bus 62	Elementary Typewriting (2) Proficiency-Exit Typewriting (2-2) Business Management (3) Introduction to Data Processing (3) Applied Business Law (3) Business Law (3-3) Personal Finance (3)
III.	None *Students may	urses for the major from related fields substitute the transfer course which relates type course if the student meets stated

RIIGINESS ADMINISTRATION

	BUSINESS ADMINISTRATION				
	Bus 1A-B	Business Correspondence(3)			
II.		courses Introduction to Business			
III.	None *Includes tran finance mark management	urses for the major from related fields sfer majors in the areas of accounting, eting, management, secretarial and office and data processing. y senior institution to which student will			

BUSINESS GENERAL

1.	Required cours	ses for the major
	Bus 50A-B * or Bus 1A-B Bus 40 Bus 51 * or Bus 6 Bus 54	Practical Bookkeeping (3-3) Principles of Accounting (4-4) Introduction to Data Processing (3) Orientation to Business (3) Introduction to Business (3) Essentials of Business Correspondence (2)
II.	Recommended	courses
	Bus 21 * or Bus 22A-B Bus 25 Bus 52 Bus 62 Bus 63 Bus 76	Elementary Typewriting (2) Proficiency-Exit Typewriting (2-2) Office Machines (3) Practical Salesmanship (3) Personal Finance (3) Records Management (3) Grammar & Usage Review (2)
III.	None *Students may s	urses for the major from related fields ubstitute the transfer course which relates type course if the student meets stated

BUSINESS MANAGEMENT

 Required cours 	ses for the major
Bus 37 Bus 40	Business Management(3) Introduction to Data Processing(3)
Bus 50A-B	Practical Bookkeeping(3-3)
* or Bus 1A-B	Principles of Accounting(4-4)
Bus 51	Orientation to Business(3)
* or Bus 6	Introduction to Business(3)
Bus 53	Applied Business Law(3)
* or Bus 10-A-B	Business Law(3-3)
II. Recommended	
Bus 21	Elementary Typewriting(2)
Bus 22A-B	Proficiency-Exit Typewriting(2-2)
Bus 25	Office Machines(3)
Bus 30	Management Concepts of
	Supervision(3)
Bus 31	Human Relations in Management(3)
Bus 38	Principles of Marketing(3)

III.	None *Students mo	Practical Salesmanship			
		COSMETOLOGY			
Required courses for the major Cos 50A-B Introduction to Cosmetology					
II.					
III.	. Acceptable courses for the major from related fields None				
	DATA PROCESSING				
1.	Required co	urses for the major			
	Moth A Bus 1A-B Bus 40 Bus 41 Bus 42 Bus 44 Bus 45 Bus 46 Bus 49A-B	Intermediate Algebra or equivalent			
II.	Recommende	ed courses			
	Bus 6 Bus 17 Bus 31 Eng 47 Math 12 Physio 10	Introduction to Business			
III.	Acceptable of None	courses from related fields			

ENGINEERING

1.	Required courses for the major Engr 2A Engineering Drawing (3) Engr 3 Descriptive Geometry (3) Engr 10 Engineering Problems (3) Engr 16 Dynamics (3) Engr 18A-B Plane Surveying (3-3)		
II.	Recommended courses		
	None		
III.	Acceptable courses for the major from related fields		
	Math 3A Analytic Geometry and Calculus		
	ENGINEERING TECHNOLOGY		
I.	Required courses for the major		
	Engr 21 Technical Drawing (2) Engr 23 Slide Rule and Computations (1) Engr 30 Orientation to Engineering (2) Engr 55 Strengths of Materials (3) Engr 61A Technical Mathematics (3) Engr 61B Technical Mathematics (3) Engr 72A Surveying for Engineering Technology (3)		
II.	Recommended courses		
Ŷn.	Engr 11 Fundamentals of Electricity (3) Engr 12 Architectural Drafting (3) Engr 13 Architectural Drafting (3) Engr 14 Architectural Drafting (3) Engr 53 Construction Materials (2) Engr 65 Statics (3) Engr 81 Fundamentals of Electronics (4) Engr 82 Intermediate Electronics (4) Weld 30 Arc Welding (3) Weld 32 Gas Welding (3)		
III.	Acceptable courses for the major from related fields		
	None		
	Student may substitute the transfer course which relates to a terminal-type course if the student meets stated prerequisite.		

ENGLISH

I.	Required cou	rses for the major
	Eng 1A Eng 1B And three co Eng 3A Eng 3B Eng 15A-B Eng 16A-B Eng 31 Eng 31 Eng 32 Eng 33 Eng 36	Reading & Composition (3) Introduction to Literature (3) Fourses from the following list: Intro to Film Criticism (2) Advanced Film Criticism (2) American Literature (3-3) World Literature (3-3) English Literature (3-3) Creative Writing (3) Advanced Composition (3) Literary Artist as Social Critic (3) The Bible as Literature (3)
II.	Recommende	d courses from related fields
	Art 3A-B Drm Art 5A-1 Hum 25 Jrn 41 Jrn 42A-B Mus 30 Phil 1A-B Phil 10 Phil 11 Sp 1	History & Appreciation of Art (3-3 B History of World Drama (3-3 The Humanities (3) Mass Communications (3) Survey of Journalism (3-3 Music Structure and Style (3) Introduction to Philosophy (3-3 Ethics (3) Oral Communication (3)
		FIRE SCIENCE
I.	Required cou	urses for the major
	Fire Sci 80 Fire Sci 81 Fire Sci 82 Fire Sci 83 Fire Sci 84 Fire Sci 85	Introduction to Fire Protection
	Fire Sci 86	Rescue Practices(3)
II.	Recommend None	ed courses
III.	Acceptable None	courses for the major from related fields

FOREIGN LANGUAGE

I. Required courses for the major One of the following sequences:

	French Fr 1 Fr 1AB Fr 2 Fr 3 Fr 4 Fr 10 Fr 11	Elementary French (4) Elementary French (2-2) Elementary French (4) Intermediate French (4) Intermediate French (4) Conversational French (2) Conversational French (2)
	Spanish Span 1 Span 2 Span 3 Span 4 Span 5 Span 10 Span 11	Elementary Spanish (4) Elementary Spanish (4) Intermediate Spanish (4) Intermediate Spanish (4) Spanish Conversation & Composition (5) Conversational Spanish (2) Conversational Spanish (2)
		Bilingual) Spanish for Bilingual Students
II.	Recomme Ger 1 Ger 2 Ger 10 Ger 11 Fr 40 Fr 41 Span 5 Span 23 Span 40 Span 41	Elementary German

Students with one year high school foreign language should enter Course #1 (Fr 1, Span 1, Ger 1); two years Course #2 (Fr 2, Span 2, Ger 2); three years, Course #3 or #10 (Fr 3 or 10, Span 3 or 10, Ger 3 or 10); four years, Course #4 (Fr 4 or 11, Span 4 or 11, Ger 4 or 11).

GENERAL CLERICAL

I Required courses for the major

i. riequ	med codiscs	ioi the major	
Bus	21	Elementary Typewriting	2)
or I	Bus 22A-B	Proficiency-Exit Typewriting	(2-2)
Bus	25	Office Machines	
Bus	29	Machine Transcription	
Bus	51	Orientation to Business	
* or l	Bus 6	Introduction to Business	
Bus	63	Records Management	(3)
II. Reco	mmended co	urses	
***	10 × D	Descionant I amor	13 31

II.	Recommended co	ourses
	*Bus 10A-B	Business Law(3-3)
	or Business 53	Applied Business Law(3)
	Business 24	Office Procedures(3)
	Bus 40	Introduction to Data Processing (3)
	Bus 50A-B	Practical Bookkeeping(3-3)
	Bus 54	Essentials of Business
		Correspondence(2)
	Bus 62	Personal Finance(3)
	Bus 76	Grammar & Usage Review(2)

III. Acceptable courses for the major from related fields
None

*Students may substitute the transfer course which relates to a terminal-type course if the student meets stated prerequisites.

GENERAL MAJOR

Completion of a minimum of twenty units of lower division courses that are required or recommended subjects as specified for upper division standing in a designated major by a specific college.

This major provides for students whose lower division prepara-

tion for a specific college requires courses in more than one division.

Some examples of such majors (taken at random from the University of California publication "Prerequisites and Recommended Subjects" and from the San Diego State Catalog) are as follows:

Agriculture Agriculture, Mathematics, Social Science, Physical Science
Art Design Art, Anthropology, History, Philosophy
Anthropology Biological Science, Psychology, English, Mathematics
Biological Science Biological Science, Chemistry, Physics, Mathematics
Business Business, Social Science, Mathematics, English
Comparative Literature English, History, Philosophy, Foreign Language
Criminology English, Foreign Language, Social Science, Mathematics
Economics Social Science, Mathematics, Business
English English, Social Science, Philosophy
Engineering Engineering, Mathematics, Physical Science
Foreign Language Foreign Language, History, Philosophy
Engineering Engineering, Mathematics, Physical Science
Foreign Language Foreign Language, History, Philosophy, English
History History, Mathematics, Foreign Language
Home Economics Biological Science, Physics, Mathematics, Social Science
Physical Education Physical Education, Biological Science, Mathematics, Social Science
Pre-Dentistry Biological Science, Physical Science, English, Social Science
Pre-"Elementary Education"
Pre-Physiotherapy Biological Science, Physical Science, Mathematics, Social Science
Psychology

Recreation Physical Education, Biological Science, Recreation, Social Science Sociology Psychology, Philosophy, Mathematics

Students in the General Major will work out in conference with a counselor, a course of study that will meet requirements for their specific majors at the selected colleges they expect to attend.

GENERAL SCIENCE

Successful completion of all courses offered in one subject field (Anatomy, Biology, Botany, Chemistry, Geology, Math, Physics, Physiology, and Zoology) may be combined with courses from at least two other subject fields (within the general area of Natural-Physical Science) to accumulate 20 hours for the General Science Major.

The most reliable guide for appropriate course combinations in this major will be the catalog from the specific college to which the student will transfer.

Natural Science

Human Anatomy(4)
Principles of Biological Science (3)
General Microbiology(4)
General Botany(4-4)
Man & His Environment(3)
Human Physiology(4)
Human Physiology(4)
General Zoology(4-4)

Phy

ysical Science	
Anthro 1	Physical Anthropology(3)
Astron 21	Elementary Astronomy(3)
Chem 1A-B	General Inorganic Chemistry (5-5)
Chem 5	Quantitative Chemistry(4)
Chem 12	Organic Chemistry(5)
Geog 1	Physical Geography(3)
Geol 1A-B	Physical Geology(4-4)
Geol 2	Introduction to Geology(4)
Math 2	Advanced Algebra
	& Trigonometry(5)
Math 3A-B	Analytic Geometry & Calculus (5-5)
Math 4A	Calculus & Differential Equations(4)
Phys Sci 25	Introduction to Physical Science (4)
Phys 2A-B	General Physics(4)
or Phys 4A-B-C	Principles of Physics (4-4-4)

LAW ENFORCEMENT

1.	Required courses for the major
	Law Enf 21 Survey of Law Enforcement (3) Law Enf 22 Police Patrol Procedures (3) Law Enf 23 Defense Texts
	20 Delense lactics
	Continuing Ixiw
	Law Lin of Chilling Investigation (2)
	Zan Zan oo Chimidi Evidence
	Zaw Em oo Chimnol Procedure
	2011 211 07 Juvelille Control
**	Dasic Law Enforcement Orientation (12)
II.	Recommended courses
	Law Enf 24 Traffic Control and Vehicle Code
	Down Lin Zo Theorins
	20 Traine Accident Investigation
III.	Acceptable courses for the major from related fields
	Ling 4/ Technical and Report Writing (2)
	I list Ald
	Psych 52 Psychology of Effective Behavior
	*Basic Law Enforcement Orientation (LE 45), 12 units, may be counted as a part of the law enforcement major re- quirements. Students who complete LE 45 need not take LE 21 LF 22 LF 22 LF 25 LF 26 and take

LIFE SCIENCE

LE 21, LE 22, LE 23, LE 25, or LE 34 for purposes of the

I.	Required	courses	for	the	major
	None				

major.

II.	Recommend	ded courses	
	Anat 8	Human Anatomy	(4)
	Bio 3	Principles of Biological Science	121
	Bio 21	General Microbiology	(4)
	Bot 1A-B	General Bolany	(4-1)
	Phiso I	Human Physiology	(1)
	Zool 1A-B Envi Sci 5	General Zoology	11 11
	THAL PCI 2	Man and His Environment	(3)

	THAL PGI 2	Man and His Environment(3)	
III.	Acceptable	courses for the major from related fields	
	Anthro I	Physical Anthropology (a)	
	OP to thill	S III ONV OF the following:	
	Chem IA-B	General Inorgania Chamister	1
	Chem 5	Quantitative Analysis (4)	,
	Onem 12	Organic Chemistry /51	
	Chem 2A	Introduction to Chemistry (4)	

MARKETING-SALES TECHNOLOGY

1.	Required courses for the major Bus 38 Principles of Marketing (3) Bus 51 Orientation to Business (3) * or Bus 6 Introduction to Business (3) Bus 52 Practical Salesmanship (3) Bus 53 Applied Business Law (3) * or Bus 10A-B Business Law (3-3) Bus 61 Retailing (3)
II.	Recommended courses Bus 21 Elementary Typewriting (2) or Bus 22A-B Proficiency-Exit Typewriting (2-2) Bus 25 Office Machines (3) Bus 50A-B Practical Bookkeeping (3-3) or Bus 1A-B Principles of Accounting (4-4)
III.	Acceptable courses for the major from related fields None *Students may substitute the transfer course which relates to a terminal-type course if the student meets stated pre-requisites.
	MATH
I.	Required courses for the major Math 3A Analytic Geometry and Calculus(5)
II.	Recommended courses Math C Plane Trigonometry
III.	Acceptable courses for the major from related fields No more than six units from the following: Chem 1A General Inorganic Chemistry

MUSIC

	Voc Nurs 62 Voc Nurs 63	Circulatory System
	Voc Nurs 64	Geriatrics (2)
	Voc Nurs 71	Digestive System(4)
	Voc Nurs 72	Nervous System(4)
	Voc Nurs 73	Professional Relations and
	922	Community Problems(2)
	Voc Nurs 74	Endocrine System(2)
	Voc Nurs 81	Excretory System
	Voc Nurs 82 Voc Nurs 83	Care of the Newborn (1)
II.	Recommended	courses from major field
	None	
III.	Recommended	courses from related fields
	Bio 3 Chem 2A Psych 1 Soc Sci 51 Sociol 1 Bio 21	Principles of Biological Science
		NURSING (Registered)
I.		(Registered) ses for the major
I.	R.N. 1 I R.N. 2 I R.N. 3 I R.N. 4 I R.N. 5 I R.N	(Registered) ses for the major Nursing I (6) Nursing III (2) Nursing IV (9) Nursing V (10) Anatomy-Physiology (5) Microbiology (4) General Psychology (3) Principles of Sociology (3) Reading & Composition (3)
I.	R.N. 1 IR.N. 2 IR.N. 3 IR.N. 4 IR.N. 5	(Registered) ses for the major Nursing I (6) Nursing III (2) Nursing IV (9) Nursing V (10) Anatomy-Physiology (5) Microbiology (4) General Psychology (3) Principles of Sociology (3) Reading & Composition (3) ses required to complete the R.N. Program
	R.N. 1 IR.N. 2 IR.N. 3 IR.N. 4 IR.N. 5	(Registered) ses for the major Nursing I (6) Nursing III (2) Nursing IV (9) Nursing V (10) Anatomy-Physiology (5) Microbiology (4) General Psychology (3) Principles of Sociology (3) Reading & Composition (3)

PHYSICAL EDUCATION

I.	Required course	es for the major
	H.E. 1 H.E. 2 P.E. 43 P.E. 44	Health Education
II.	Recommended	courses
	P.E. 2A P.E. 2A P.E. 2B P.E. 3A P.E. 3B P.E. 4A P.E. 4B P.E. 6A-B P.E. 8A P.E. 10A-B P.E. 10A-B P.E. 17A-B P.E. 18B P.E. 18B P.E. 18B P.E. 25A P.E. 25B P.E. 25B P.E. 26A P.E. 26B P.E. 27A-B P.E. 26B P.E. 27A-B P.E. 31A-B-C-D	Sports Officiating (Men) (2-2) Introduction to Recreation (3) activity courses from following list: Beginning Gymnastics, Men (.5) Beginning Gymnastics, Women (.5) Intermediate Gymnastics, (Co-ed) (.5) Beginning Tennis (.5) Beginning Badminton (.5) Intermediate Badminton (.5) Life Saving & Water Safety Instructor Training (.55) Beginning Bowling (.5) Intermediate Bowling (.5) Intermediate Bowling (.5) Intermediate Bowling (.5) Team Sports, Men (.55) Individual and Dual Sports (.55) Individual and Dual Sports (.55) Beginning Golf (.5) Intermediate Golf (.5) World Dance, Folk (.5) World Dance, Square (.5) Modern Dance (.5) Social Dance (.55) Football and P.E. (1-1-1-1) Basketball and P.E. (1-1-1-1) Basketball and P.E. (1-1-1-1) Golf and P.E. (1-1-1-1) Gross Country and P.E. (1-1-1-1) Cross Country and P.E. (1-1-1-1) Cross Country and P.E. (1-1-1-1)
III.	Acceptable cou	arses for the major from related fields
	Anat 8 Chem 1A-B Chem 2A Ed 1	Human Anatomy

			IE.		
	Physio 1 Rec 45 Rec 70 Rec 75 Zool 1A	Human Physiology		Ag 32 Ag 33A Ag 61 Ag 65 Ag 71 W.E. 63A	Irrigation and Drainage
Ī.	Required cour	ses for the major		W.E. 63B	Business Life
	None	sob tot mo major	i.	W.E. 63C	numan relations and Motivation (A)
TT				W.E. 63D	Personality Health for Personal
11.	Recommended			W.E. 63E	Leadership
	Astron 21 Chem 1A-B Chem 5 Chem 12 Geog 1 Geol 1A Geol 1B Geol 2 Phys Sci 2 Phys Sci 2 Phys 2A-B Phys 4A-B-C Env Sci 5	Elementary Astronomy (3) General Inorganic Chemistry (5-5) Quantitative Analysis (4) Organic Chemistry (5) Physical Geography (3) Physical Geology (4) Historical Geology (4) Introduction to Geology (4) Introduction to Physical Science (4) General Physics (4-4) Principles of Physics (4-4-4) Man and His Environment (3)	ш.	Acceptable of the second secon	General Botany (4) General Botany (4) General Botany (5-5) Organic Chemistry (5-5) Introduction to Chemistry (4) Technical & Report Writing (3) Elementary Statistics (3) Arc Welding (3) Gas Welding (3)
III.	Acceptable co	urses for the major from related fields			
	Up to 6 units Engr 23 Math 2 Math 3A-B Math 4A	from the following: Slide Rule and Computations(1) Advanced Algebra & Trigonometry	I.	Required cou Rec 45 Rec 70 Rec 75 P.E. 25A	RECREATION uses for the major Introduction to Recreation (3) Social Recreation (2) Camp Leadership (2) World Dance, Folk (.5)
		PLANT SCIENCE		P.E. 25B	World Dance, Square (5)
I.	Required cour	PLANT SCIENCE ses for the major		P.E. 25B P.E. 27A P.E. 43	World Dance, Square(.5) Social Dance(.5) Elementary Games(3)
I.	Ag 40 S Ag 41 F Ag 42 F Ag 43 F Ag 49 V	Ses for the major Soils	II.	P.E. 25B P.E. 27A P.E. 43 Mus 30 Socio 1 Recommende P.E. 41A-B And 3 units	World Dance, Square
	Ag 40 S Ag 41 F Ag 42 F Ag 43 F Ag 49 N Recommended	Ses for the major Soils	п.	P.E. 25B P.E. 27A P.E. 43 Mus 30 Socio 1 Recommende P.E. 41A-B	World Dance, Square

P.E. 4A	Beginning Badminton(.5)	
P.E. 4B	Intermediate Badminton(.5	
P.E. 6A	Life Saving & Water Safety	
r.L. on		Ø
D.D. 00	Instructor Training(.5	444
P.E. 6B	Life Saving & Water Safety	
	Instructor Training(.5)	X
P.E. 8A	Beginning Bowling(.5)	
P.E. 8B	Intermediate Bowling(.5	
P.E. 10A-B	Team Sports (Men) (.5	
P.E. 10A-B		
	Team Sports (Women)	
P.E. 13A-B	Individual and Dual Sports(.5	
P.E. 17A-B	Physical Fitness	-5)
P.E. 18A	Beginning Golf(5)	
P.E. 18B	Intermediate Golf	
P.E. 26A-B	Modern Dance(.5	53
P.E. 27A-B	Social Dance (.5	5)
P.E. 31A-B-C-D	Football and P.E. (1-	1 1 15
P.E. 32A-B-C-D	Developed and P.D.	1 1 13
	Basketball and P.E. (1-	
P.E. 33A-B-C-D	Track and P.E. (1-	1-1-1)
P.E. 34A-B-C-D		
P.E. 35A-B-C-D	Wrestling and P.E(1-	1-1-1
P.E. 36A-B-C-D	Golf and P.E. (1-	1-1-11
P.E. 37A-B-C-D		
	Oroco Oculai a Tilli minimi (F	310000

III. Acceptable courses for the major from related fields

Art 31	Crafts(3)
Bio 3	Principles of Biological Science (3)
Bot 1A-B	General Botany(44)
Ed 1	Introduction to Education(2)
Mus 71A-B	Imperial Valley College Chorale (1-1)
Zool 1A	General Zoology(4)

SECRETARIAL

I. Required courses for the major

Bus 22A-B Bus 24	Proficiency-Exit Typewriting
Bus 27A-B	Dictation and Transcription Lab
Bus 29	Machine Transcription(1)
Bus 54	Essentials of Business
	Correspondence
* or Bus 11	Business Correspondence
Bus 63	Records Management
Bus 76	Grammar and Usage Review(1)

IL Recommended courses

Bus 25	Office Machines(3)
Bus 26	Llementary Shorthand (3)
or Bus 20	Alphabetic Shorthand (2)
Bus 40	Introduction to Data Processing (2)
Bus 51	Orientation to Business (3)
or Bus 6	Introduction to Business

Acceptable courses for the major from related fields

*Students may substitute the transfer course which relates to a terminal-type course if the student meets stated prerequisites.

SOCIAL SCIENCE

I Required courses for the major

A. The requirements for a major in Social Science may be satisfied by taking 20 units from the following list to include at least one course from three of the eight fields:

Anthropolog	y	
Anthro 1 Anthro 2	Physical Anthropology Cultural Anthropology	. (3) . (3)
Economics Econ 1A Soc Sci 53	Principles of Economics Introduction to Economics	(3)
Geography Geog 1 Geog 2 Soc Sci 54	Physical Geography Cultural Geography Introduction to Geography	(3)
History Hist 4A-B Hist 8A-B Hist 17A-B Hist 30	History of Western Civilization History of the Americas United States History Mexico and the American Southwest	(3-3 (3-3 (3-3
Poly Sci 2		(3)

Poly Sci 3 Comparative Politics(3)

Poly Sci 51 The Constitution in Action (2)
Poly Sci 53 Contemporary World Affairs (2)

Relations(3)

Poly Sci 14 Introduction to International

	Psychology Psych 1 Psych 2	General Psychology		
	Psych 3	Psychology of Personal and Social Adjustment(3)		
	Psych 52	Psychology of Effective Behavior(3)		
	Social Scient Soc Sci 51 Soc Sci 52 Soc Sci 53 Soc Sci 54	Introduction to American Society		
	Sociology Sociol 1 Sociol 33 Sociol 51	Principles of Sociology		
II.	Recommend None	ed courses		
III.	II. Accepted courses from related fields None			
	so	DILS & WATER TECHNOLOGY		
I.	Required co	ourses for the major		
	Ag 32 Ag 40 Ag 41	Irrigation and Drainage		
II.	Recommended courses			
	Ag 30 Ag 31A-B Ag 33 Ag 61 Ag 71 W.E. 63A W.E. 63B W.E. 63C W.E. 63D	Agricultural Mechanics (2) Farm Machinery (2-2) Farm Power (5) Commercial Fertilizers (3) Equipment Operation & Maintenance (3) Practical Psychology in Business Life (4) Your Personal Efficiency (4) Human Relations and Motivation (4) Personality Health for Personal Leadership (4) Manpower and Work Experience (2)		

III.	Acceptable	courses for the major from related fields
	Chem 1A-B Chem 12 Chem 2A Eng 72 Eng 47 Math 3A Math 3B Math 4A Math 12 Weld 30 Weld 32	General Inorganic Chemistry (5-5) Organic Chemistry (5) Introduction to Chemistry (4) Surveying for Engineering Technology (3) Technical & Report Writing (3) Analytic Geometry and Calculus (5) Analytic Geometry and Calculus (5) Calculus and Differential Equations (4) Elementary Statistics (3) Arc Welding (3) Gas Welding (3)
		TEACHER AIDE
I.	Required co	urses for the major
	Ed 1 P.E. 43 Spec Stu 51	Introduction to Education(2) Elementary Games and Activities(3) Special Problems for Teaching Aides (2)
II.	Recommend	ed courses
	None	
III.	Acceptable	courses for the major from related fields
	Art 31 Bus 21 Eng 51 Eng 61A-B Math 51 Mus 7A Nat Sci 51 Soc Sci 51 Soc Sci 52	Crafts (3) Elementary Typewriting (2) English Fundamentals (3) Reading Development (2-2 Basic Mathematics (3) Music Fundamentals (3) Survey of the Earth Sciences (3) Introduction to American Society (3) Introduction to American Government (3)
	Soc Sci 53	Introduction to Economics (3) Introduction to Geography (3)

WELDING

I.	Required co	ourses for the major
	Weld 32 Weld 34	Arc Welding
II.	Recommen	ded courses
	Eng 21 Eng 61A-B W.E. 63A W.E. 63B W.E. 63C W.E. 63D	Agriculture Construction (2) Technical Drawing (3) Technical Mathematics (3-3) Practical Psychology in Business Life (4) Your Personal Efficiency (4) Human Relations and Motivation (4) Personality Health for Personal Leadership (4) Manpower and Work Experience (2)
III.	Acceptable	e course for the major from related fields
	Ag 30 Ag 31A Eng 47 Math 51	Agricultural Mechanics (2) Farm Machinery () Technical and Report Writing (3) Basic Mathematics (3)

CERTIFICATE PROGRAMS

AUTOMOTIVE TECHNOLOGY Certificate Program

Auto	Toch	51	Automotive Technology or	Unit
			Equivalent	. 5
Auto	Tech	52	Transmissions Systems Brakes and Suspension	. 3
Auto	Tech	53	Brakes and Suspension	. 3
Auto	Tech	54	Electrical and Fuel Systems	3
Auto	Tech	55	Gasoline and Diesel Engines	. 5
Auto	Tech	56	Electrical and Fuel Systems Gasoline and Diesel Engines Diagnostic	. 3
			Total Units	22
Weld	ing 3	0 an	nd/or Welding 32 may be substituted for	Auto
Tech :	52, 53	, 54,	or 56.	

BUSINESS Certificate Programs

Demonstrated competency in English 51 and Mathematics 51 is required for all business certificates. Those trainees with the requisite skills in typing, shorthand, and/or transcription will not be required to complete these courses, but will concentrate on typing lab, business correspondence and transcription.

(Receptionist - File Clerk - Small Business Records)

General Clerical:

Bus 22A	Proficiency-Exit Typewriting(40 wpm net)*	2
Bus 25	Office Machines	3
Bus 29	Machine Transcription	1
Bus 50A	Bookkeeping	3
Bus 63	Records Management	3
200	Machine Transcription Bookkeeping Records Management Business Electives	8
	Total Units	20
Clerk Typ	pist:	
Bus 22A	Proficiency-Exit Typewriting (50 wpm)*	2
Bus 24	(50 wpm)* Office Procedures Office Machines	3
Bus 25	Office Machines	3
Bus 29	Machine Transcription	1
Bus 63	Records Management	3
240 00	Business Electives	8
	2111220	_
	Total Units	20

Units

Secretary Stenographer:

Bus	22.A-E	Proficiency-Exit Typewriting	
		(60 wpm)*	2
Bus	24	Office Procedures	3
Bus	25	Office Machines	3
Bus	27A	Dictation and Transcription Lab	
		(80 wpm)*	3
Bus	29	Machine Transcription	1
Bus	54	Machine Transcription	2
Bus	63	Records Management	
Bus	76	Grammar & Usage Review	
			-
		Total Units	19
Towns	- D-	aldraman Dermall Clark	

Junior Bookkeeper-Payroll Clerk

Bus	22	Proficiency-Exit Typewriting	2
-	25	(40 wpm)* Office Machines	3 3-3
Bus		BBookkeeping	3
		Business Electives	
		Total Units	20

^{*}Denotes the completion-level skill required.

FIRE SCIENCE Certificate Program

				Units
Fire	Sci	80	Introduction to Fire Science	3
Fire	1	A 100 September 1	Introduction to Fire Suppression	3
Fire	100		Fire Fighting Tactics and Strategy	
*Fire			Fire Hydraulics	
Fire	171 (80) 100 100	170	Fire Apparatus and Equipment	3
Fire	Sci	85	Fire Company Organization and Procedures	3
Fire	Sci	86	Rescue Practices	
*Mat	h 51			
or	equi	valen	t Basic Mathematics or Equivalent	3
				21-24

^{*}Math 51 or equivalent required before registration in Fire Science 83.

LAW ENFORCEMENT Certificate Program

		Units
H.E. 2	First Aid	1
Law Ent 21	Survey of Law Enforcement	3
Law Enf 22	Police Patrol Procedures	3
Law Enf 23	Defensive Tactics	2
Law Enf 24	Traffic Control and Vehicle Code	3
Law Enf 33	Criminal Law	3
Law Enf 34	Criminal Investigation	3
Law Enf 35	Criminal Evidence	3
Law Enf 36	Criminal Procedure	3
Law Enf 37	Juvenile Control	3
	Total Hotte	07
	Total Units	21

Basic Law Enforcement Orientation (LE 45), 12 units, may be counted as a part of the law enforcement major requirements. Students who complete LE 45 need not take LE 21, LE 22, LE 23, LE 25, or LE 34 for purposes of the major.

BASIC LIBRARY TECHNICIAN Certificate Program

L.T. 51 L.T. 52 L.T. 53 L.T. 54	Introduction to Library Services Support for Technical Services Support for Public Services Introduction to Audio-Visual Services	3
	Total Units	_

REAL ESTATE Certificate Program

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
Bus 90	Real Estate Principles	. 3
Bus 91	Real Estate Practices	. 3
Bus 92	Legal Aspects	. 3
Bus 93	Real Estate Finance	. 3
Bus 94	Real Estate Appraising	. 3
Bus 95	Real Estate Economics	. 3
Plus Busin	ness Electives	. 9
		_
	Total Units	27

VOCATIONAL NURSING Certificate Program

				Units
	Nurs		Clinical Fundamentals	5
Voc	Nurs	51	Clinical Fundamentals	5
Voc	Nurs	52	Clinical Fundamentals	5
Voc	Nurs	61	Musculo-skeletal System	4
Voc	Nurs	62	Circulatory System	4
	Nurs		Respiratory System	2
	Nurs	100	Geriatrics	2
	Nurs		Digestive System	4
	Nurs		Nervous System	
	Nurs		Professional Relations and	•
			Community Problems	2
Voc	Nurs	74	Community Problems Endocrine System Excretory System	ĩ
	Nurs		Everology System	2
	Nurs		Reproductive System	1
	Nurs		Care of the Newborn	1
VOC	TAMES	00	Care of the Newborn	1
			Total Units	45
			TOTAL CHILD	70

WELDING Certificate Program

		Units
Weld 32 Weld 34 Weld 36 Ag 30 Eng 21	Arc Welding Gas Welding Gas Shielded Arc Welding Advanced Welding Agricultural Mechanics Technical Drawing Technical Math	3 3 3
	Total Units	21

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IMPERIAL VALLEY COLLEGE
ADDENDUM TO 1971-1973
GENERAL CATALOG

IMPERIAL VALLEY COLLEGE 1972-73 CALENDAR

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Rall Competer Classes Regin September /;	7712
Veteran's Day	1712
The producting Recess November 43, 44,	TOIL
Christmae Recess December 18, 19/2 Lillo	ugn
January 1,	17/2
Final ExamsJanuary 18, 1973 thro	ugh
January 25,	17/2
Final Day of Fall SemesterJanuary 25,	1973
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Spring RegistrationJanuary 26,	1973
Cambra Competer Reging	
U-hington's Rirthday rebluary 1);	17,0
Carino Posses April 10, 19/3 till	Jugn
April 20,	1973
Memorial Day	1973
Final ExamsJune 1, 1973 thre	ough
June 8,	1973
Final Day of Spring SemesterJune 9, 1973 (Satu	rday)
Semester	1973
GraduationJune 9,	

1973 Summer School

Classes BeginJune 18,	1973
Independence Day (Holiday)July 4,	1973
Final ExamsJuly 27,	1973
Final ExamsJuly 27,	1973

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CROFTS, JOSEPH of Oxford
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M.A., Californía State Polytechnic College
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1	GREY, VERNAVocational Nursing
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9	B.S., University of North Dakota
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Ų.	B.A., Texas Women's University
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Ei	M.A., San Francisco State College
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7	
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M.A., Sacramento State College
M.A., Sacramento State Correge

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Bart	ara				
WISBROCK	, ROLL	IE			.Speech
B.A	M.A.,	San Di	ego Stat	e College	1.7%

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	SLEVIN, LEONARD
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1	A.B., Fresno State College
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1	B.S., M.A., St. Louis University

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M.B.A., University of Chicago
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M.A., Fresno State College
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PERSKE, GERALD KBiological Science
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M.A., University of Wyoming
SAMUELS, CARMENRegistered Nursing
B.S., Indiana University
M.S., DePaul University
SCOTT, CARMEN
B.A., M.A., University of Texas
SISNEROS, DENNISCounselor
B.S., New Mexico State University
B.S., New Mexico State University

CHANGES IN THE IMPERIAL VALLEY COLLEGE 1971-1973 GENERAL CATALOG

I. EXPENSES (Page 21 in General Catalog)

There is no tuition charge for full-time students who are legal California residents. Tuition for foreign students and for students who are legal residents of other states is \$25.00 per unit to a maximum of \$750.00 per academic year. Tuition for California adults taking fewer than 10 contact hours is \$2.50 per unit.

II. ATHLETIC ELIGIBILITY (Page 23 in General Catalog)

Conference eligibility rules provide that to participate in interscholastic sports, the student must have satisfied the following requirements:

- Must have begun regular attendance not later than the end of the registration period as specified in the college catalog (no later than first week).
- 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. Physical education activity courses including athletics may not be included in the 10 units of work required.
- 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. Physical education

- activity courses including athletics may not be included in the 10 units of required work.
- 4. Must pass at least 20 units of work before the next semester of competition if the student-athlete has previously attended college for two semesters as a regularly enrolled student.
- 5. Must be a high school graduate, or at least 19 years of age by August 31 of the year he enters junior college.
- 6. Must be in good standing.

A student who is not an IVC District high school graduate may not be granted eligibility unless he has met the following requirements:

- Resides with his parents whose legal address is in the IVC District and has petitioned the conference for a bonafide change of residence (under 21 years of age).
- 2. Student athletes who are 18 years of age and attend the local community college for two academic semesters and pass 10 units plus P.E. (if required) per semester will then have two years of athletic eligibility remaining.
- 3. Student athletes who are 18 years of age and reside continuously in the local district for a period of two years prior to enrollment in the college will then have two years of competition remaining.
- 4. Quota athletes are designated by the coach of each sport having quota athletes. This athlete is eligible immed-

iately, provided he meets all other requirements other than the residency requirement.

III. ADMISSION (Page 25 in General Catalog)

A. Students from Other States

Students from other states may be accepted for enrollment if they meet the requirements of admission. A fee of \$25.00 per unit, not to exceed a total of \$750.00 per academic year, is charged out-of-state students.

B. Foreign Students

Foreign students may be admitted to Imperial Valley College if they meet the requirements of admission and if they have achieved sufficient mastery of the English language, as evidenced by their scores on entrance examinations, to participate in and profit from college class work. Tuition of \$25.00 per unit, not to exceed a total of \$750.00 per academic year is charged.

IV. TRANSCRIPTS (Page 25 in General Catalog)

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

- V. SCHOLARSHIP GRADING SYSTEM (Page 28 in General Catalog)
 - A. Withdrawal Grades

Delete W/P Withdrawal, passing

B. Grades at the time of withdrawal under either circumstance will be assigned in accordance with the following schedule:

Weeks	οf	Semester	Grade
1	-	15	11 W 11
16	-	18	"WF"

After the fifteenth week, grades of "WF" will be given irrespective of the grades then being earned, unless it can be demonstrated that extenuating circumstances such as an incapacitating illness or injury or moving from the community exist. Under such circumstances, the student may petition the Petitions Committee for withdrawal with grades of "W" or "WF" whichever is appropriate. Such-petitions must be presented in person when possible, or by mail, and in all cases must be accompanied by prima facie evidence supporting the reason for withdrawing.

C. 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
- Cr 0 grade points per unit; units not charged against the student
- W -- 0 grade points per unit; units not charged against the student
- WF 0 grade points per unit; units charged against the student
- VI. PHYSICAL EDUCATION (Page 32 in General Catalog)

Under Paragra : five, change the "WP" to "W".

VII. SUBJECT AREA REQUIREMENTS (Page 35 in General Catalog)

Change Paragraph "E" as follows: Mathematics competency demonstrated by appropriate examination or completion of Math 51 - Basic Mathematics, or Math 50 - Shop Mathematics.

VIII. GENERAL EDUCATION (Page 36 in General Catalog)

Under section (2) Communications, change Hum 3A title to Introduction to Film Criticism.

Under section (2) Communications, add:

Span 24...Introduction to Spanish Literature for Bilinguals

- Sp 1.....Oral Communication
- Sp 2.....Intermediate Public Speaking
- Sp 10.... Argumentation and Debate
- Sp 51....Basic Speech

Under section (4) Natural Science, change Anat 18 to Anat 8.

- IX. CERTIFICATES (Page 42 in General Catalog)
 Add Human Relations to list.
- X. CHANGES IN COURSES OF INSTRUCTION (Page 4 in General Catalog)
 - Ag 36 Agricultural Construction (3) (Change to 2 hrs. Lec., 2 hrs. Lab.)
 - Ag 50 Shop Mathematics (3) 3 hrs. Lec (Same as Auto Tech 50, Math 50, and Weld 50)
 - Art 22A Design (3)

 2 hrs. Lec
 3 hrs. Lab
 Fundamentals of design and composition;
 theory of color. Includes organization
 and utilization of basic elements
 through design problems.
 - Art 22B Design (3)

 2 hrs. Lec.
 3 hrs. Lab.
 Intermediate studies of elements and
 principles of art with emphasis on
 three-dimensional design theory.
 - Art 26A Design in Crafts (3) 6 hrs. Lab. An introduction to the study of several traditional crafts with an emphasis on creative design and individual exploration. Experiences in metal jewelry, batik and tie-dye, printmaking, fibers, sand casting and enameling.
 - Art 27A Creative Handweaving (2)
 6 hrs. Lab.
 An exploratory course as an introductio to the craft of non-loom weaving. Its emphasis is on the exploration of textu

- CHANGES IN COURSES OF INSTRUCTION CONTINUED х.
 - and color using contemporary and traditional techniques ...
 - 2 hrs. Lab. Art 33 Gallery Display (1) Theories, techniques, and practices of art gallery exhibition.
 - Auto Tech 50 Shop Mathematics (3) 3 hrs. Lec. (Same as Ag 50, Math 50, Weld 50)
 - Auto Tech 55 Gasoline and Diesel Engines (5)
 - Auto Tech 72 Engine Repair (3) 2 hrs. Lec. 3 hrs. Lab.
 - Bus 18 Intermediate Shorthand for Bilinguals (Same as Span 18)
 - Bus 22A-B Proficiency Exit Typewriting (2-2)1 hr. Lec. 4 hrs. Lab.
 - Bus 23 Business Correspondence in Spanish (3) (Same as Span 23) 3 hrs. Lec.
 - 2 hrs. Lec. Bus 24 Office Procedures (3) 3 hrs. Lab.
 - Bus 26 Elementary Shorthand (3) 2 hrs. Lec. 3 hrs. Lab. The beginning course in Gregg Shorthand. Theory and dictation practice. Not open to students with previous instruction

Bus 28 Gregg Shorthand Review (2)

2 hrs. Lec. 2 hrs. Lab. Prerequisites: Knowledge of Gregg Shorthand. A review course of Gregg Shorthand theory. Theory and dictation

practice for students to develop these skills to the entry level required for the dictation-transcription course.

- Bus 37 Business Management (3) 3 hrs. Lec. A study of the organizing and merchandising problems of a business; financial problems; business management.
- Bus 47 Programming in Fortran (3) 3 hrs. Lec. A practical course covering the fundamentals of Fortran Programming Language as adapted to a variety of different applications. (Same as Math 47)
- Bus 84 Legal Dictation (Change prerequisite to: Shorthand dictation rate of 60 wpm, typing speed of 50 wpm.)
- Bus 91 Real Estate Practices (Change prerequisite to: Business 90 or employment in the real estate field as a licensee.)
- Bus 92 Legal Aspects of Real Estate (Change prerequisite to: Business 90 or employment in the real estate field as a licensee.)

in shorthand.

Bus 93 Real Estate Finance (Change prerequisite to: Business 90 or employment in the real estate field as a licensee.)

Econ 40 Contemporary Economic Issues (3)
3 hrs. Lec.
Prerequisites: Not open to students
who have taken Econ 1A or Econ 1B. A
comprehensive one-semester course that
describes what modern economics is about.
Primarily for interested citizens who
wish a general introduction to modern
economic analysis.

Eng A-B English Fundamentals (3-3)
3 hrs. Lec.
Prerequisite: Assignment by placement
test. Intensive study of vocabulary,
grammar and usage with frequent writing
of short themes. This course is designed for those students who wish a
thorough review in preparation for Eng
1A. Concurrent enrollment in Eng 60AB
is strongly recommended. Eng A-B does
not fulfill basic requirements for
graduation.

1 hr. Lec.
2 hrs. Lab.

(Same as Hum 4A-B-C-D) A continuation
of English 3 with emphasis on certain
major directors or "auteurs." English
4 may be taken before English 3; however, it is recommended that the student
take the courses in sequence. May be
repeated with credit for study of
different directors.

Eng 4A-B-C-D Advanced Film Criticism (2)

X. CHANGES IN COURSES OF INSTRUCTION CONTINUED

Eng 15A-B American Literature (3-3)
3 hrs. Lec.
Prerequisite: Eng 1B, but this prerequisite will be waived for those who
had an overall high school average of
B or better and who received an A or B
in junior or senior English (high school)
or in advanced placement courses. A
critical analysis of literary works of
major American writers. The two parts
of this course are divided approximately
at the end of the 19th century. Eng 15B
may be taken before Eng 15A.

Eng 20 Modern Poetry (3) 3 hrs. Lec.
A literature course designed to give students an adequate background in Twentieth Century Poetry. Emphasis is on enjoyment of reading, active discussion of ideas, individual and group projects. Students will become acquainted with writers such as Robert Lowell, Sylvia Plath, Theodore Roethke, Robert Creeley, Robert Duncan, Paul Blackburn, LeRoi Joines, Laura Nyro, and Phil Ochs.

Eng 28A-B The Mexican-American in
Literature (3-3) 3 hrs. Lec.
Prerequisite: Eligibility for English
1A. The study of the contributions in
all genres of literature by MexicanAmericans. Course to be developed
through the study of the Mexican-American historical and socio-cultural backgrounds, and by comparing and contrasting their works with their familiar
Anglo-American counterparts, as well as
the works of the familiar Mexican authors.
English 28B may be taken before English
28A.

- X. CHANGES IN COURSES OF INSTRUCTION CONTINUED
 - Eng 45A-B-C-D Newspaper Production (Change units to 1-1-1-1)
 - Eng 55A-B Everyday English (2)

 2 hrs. Lec.

 Prerequisites: Students are required to have completed at least a beginning course in English or by permission of the instructor. A course designed to give the non-transfer student a basic ability in everyday English. The course will emphasize vocabulary building, conversational skills and listening comprehension.

Under FRENCH, (Page 75 in General Catalog), change as follows:

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the foreign language requirement in various majors. These high school courses will not count as college credit toward graduation. Placement will be made by examination and/or consent of the instructor. Contact the IVC Counseling Office for further information. The last yearcourse taken by a student in the high school language sequence may be repeated in college for graduation credit, not to exceed four units of repeated foreign language work.

Fr 1 Elementary French (Change to 4 hrs. Lec., 1 hr. Lab., and change the half hour to one hour of individual language laboratory.)

- X. CHANGES IN COURSES OF INSTRUCTION CONTINUED
 - Fr 1A-B Elementary French (Change to 2 hrs. Lec., 1/2 hr. Lab.)
 - Fr 2 Elementary French (4) 3 hrs. Lec. 2 hrs. Lab. Prerequisite: French 1 or placement by examination. Continuation of French 1. The student must plan for an additional hour of individual language laboratory.
 - Fr 3 Intermediate French (4) 4 hrs. Lec. Prerequisite: French 2 or placement by examination. Continuation of French 2 with a review of grammar in depth and practical oral application. Emphasizes oral practice, writing and reading in French. Includes cultural material, short stories, novels and plays. Outside reading with oral and written reports. The student must plan for an additional hour of individual language laboratory.
 - Fr 4 Intermediate French (4) 4 hrs. Lec. Prerequisite: French 3 or placement by examination. Continuation of French 3. The student must plan for an additional hour of individual language laboratory.
 - Fr 40 French Civilization (3) 3 hrs. Lec. (Conducted in English)
 The major currents and characteristics of French culture and their development as expressed through the centuries in literature, art, philosophy, music, science, and politics, and life of the people from prehistory to the 18th century.

- X. CHANGES IN COURSES OF INSTRUCTION CONTINUED
 - P.E. 15A-B Figure Control for Women (1-1)

 2 hrs. Lab.

 This course is designed to emphasize physical conditioning and development.

 Equips the student with a knowledge of exercises and conditioning activities which can be used to maintain physical fitness throughout her college and adult life.
 - P.E. 17A-B Physical Fitness (Change to 1-1 units of credit)
 - P.E. 18A Beginning Golf (Change to 1 unit of credit)
 - P.E. 18B Intermediate Golf (Change to 1 unit of credit)
 - P.E. 19A-B-C-D Karate (1) 2 hrs. Lab.
 Designed to give the student an introduction to the basic movements and
 self-defense tactics used in Karate.
 - P.E. 20A-B Bicycling (1) 2 hrs. Lab.
 Designed to provide physical exercise,
 recreation, and transportation.
 - P.E. 25A-B Folk Dance (Change to 1-1 units of credit)
 - P.E. 26A Modern Dance (Change to 1 unit of credit)
 - P.E. 26B Intermediate Modern Dance (1)
 2 hrs. Lab.
 Choreography-advanced dance. Open to
 men and women.

- X. CHANGES IN COURSES OF INSTRUCTION CONTINUED
 - P.E. 27A-B Social Dance (Change to 1-1 units of credit)
 - P.E. 28A-B Modern Dance Theater (2-2) (Add: Open to men and women)
 - P.E. 31A-B-C-D Football and P.E. (Change to 2-2-2-2 units of credit)
 - P.E. 32A-B-C-D Basketball and P.E. (Change to 2-2-2-2 units of credit)
 - P.E. 33A-B-C-D Track and P.E. (Change to 2-2-2-2 units of credit)
 - P.E. 34A-B-C-D Baseball and P.E. (Change to 2-2-2-2 units of credit)
 - P.E. 35A-B-C-D Wrestling and P.E. (Change to 2-2-2-2 units of credit)
 - P.E. 36A-B-C-D Golf and P.E. (Change to 2-2-2-2 units of credit)
 - P.E. 37A-B-C-D Cross Country and P.E. (Change to 2-2-2-2 units of credit)
 - Hist 8A History of the Americas (3)

 3 hrs. Lec.
 A survey course in which the history
 of the United States, Canada and Latin
 America are considered as an integrated
 whole. Native American Indian cultures
 and colonial development through the era
 of independence are discussed. This
 course together with Hist 8B will satisfy
 graduation requirements in American
 Institutions.

Hist 8B History of the Americas (3)

3 hrs. Lec.
A survey course in which the history of the United States, Canada, and Latin America are considered as an integrated whole. The area of study covers nineteenth and twentieth century development of the Americas. Consideration is given to the Constitution of the United States. This course together with Hist 8A will satisfy graduation requirements in American Institutions.

- Honors 28 Mathematics-Engineering Division Honors Program (1-2)
- Honors 29 Health, Physical Education, and
 Recreation Division Honors Program
 (1-2) 1-2 hrs. Lec.

Under HONORS section (Page 78 in General Catalog), Course Descriptions now cover Honors 21-29.

- Honors 31 Nursing Division Honors Program (1-3) Lec./Lab. by arrangement Prerequisites: Admission to ADRN Program and permission of Program Director. Intended for transfer students or students who will only take a portion of one of the Registered Nursing courses.
- Hum 3 Introduction to Film Criticism (2)
 (Same as English 3) 1 hr. Lec.
 2 hrs. Lab.
- Hum 4A-B-C-D Advanced Film Criticism (2)
 (Same as English 4A-B-C-D) 1 hr. Lec.
 2 hrs. Lab.

X. CHANGES IN COURSES OF INSTRUCTION CONTINUED

Hum 26 The Humanities (3) 3 hrs. Lec. Prerequisites: Humanities 25 with a grade of "B" or better or eligibility for English 1A. An advanced course dealing extensively in music, drama, visual arts and architecture. Humanistic and interdisciplinary approach to study man's reflection of himself in creative expression. Research paper or creative project required. Conducted by lecture, discussion, field trips, films, and guest lecturers.

HUMAN RELATIONS (Page 79 in General Catalog)

The Human Relations curriculum with an Associate of Arts degree has been designed to prepare students for employment as counselor aides and group counselor aides, vocational rehabilitation aides, teacher aides, eligibility workers, social service technicians and other pre-professional positions in the vocational "new careers" concepts in people-to-people services. These services are in use in youth and adult correctional institutions, welfare and vocational rehabilitation agencies. mental hospitals, state employment centers, K-12 educational institutions, and child care centers.

Change all Guidance course numbers to Human Relations course numbers. (H.R. 60, H.R. 61, H.R. 62A-B, H.R. 65A-B-C-D).

H.R. 72 Small Group Leadership (3)
3 hrs. Lec.
Gaining of knowledge and skills in small
group leadership leading to effectiveness in interpersonal relations and increased understanding of small group

- X. CHANGES IN COURSES OF INSTRUCTION CONTINUED behavior, with emphasis on facilitating effective communication.
 - H.R. 73 Practicum (2) 6 hrs. Lab.
 Prerequisites: H.R. 72, Psych 1A,
 Sociol 1A, psych 3 or concurrent enrollment. Also by permission of instructor.
 A course designed to provide opportunity
 for the student in Human Relations to
 gain experiences under supervised conditions.
 - H.R. 75 Interviewing and Counseling (3)
 3 hrs. Lec.
 A study of the theory, process and practice of interviewing and counseling in the community service situations. The course is designed to assist the student in gaining knowledge for the development of skills to deal with the interviewee in a variety of situations.
 - L.T. 55 Cataloging and Classifying (3) 3 hrs. Lec. Prerequisites: Library Tech 51 and/ or Library Tech 52 or consent of the instructor. A course devoted to the development of the skills and practical experiences needed by library technical assistants in support of the technical services aspect of a library operation. The student learns the theory and philosophy underlying the classification systems used in American libraries, classifies and catalogs book and nonbook materials, and is exposed to a variety of work experience situations where this knowledge is put to use.

- X. CHANGES IN COURSES OF INSTRUCTION CONTINUED
 - Math 17 Mathematics for Business Analysis (Same as Bus 17) (3) 3 hrs. Lec.
 - Math 47 Programming in Fortran (3)
 3 hrs. Lec.
 A practical course covering the fundamentals of Fortran Programming Language as adapted to a variety of different applications.
 (Same as Bus 47)
 - Math 50 Shop Mathematics (3) 3 hrs. Lec. A basic course in mathematics designed to meet the needs of students enrolled in the following vocational programs: Automotive Technology, Welding, and Agricultural Engineering.

The course will cover applied mathematics for the shop student, factoring, fractions, measuring devices, basic geometry, measurement of areas and volumes, board measure, metric measurement.

This course will meet the Imperial Valley College mathematics competency requirement as demonstrated by appropriate examination and is not open to students who have completed Mathematics 51. (Same as Ag 50, Auto Tech 50, Welding 50)

Mus 8C-D Intermediate Musicianship (2-2)
2 hrs. Lec.
Prerequisites: Music 8B is a prerequisite to Music 8C. Music 8C is a prerequisite to Music 8D. A continuation
of Music 8AB to increase skills in sight
singing, ear training, and keyboard
harmony.

Mus 9C-D Intermediate Harmony (3-3)
3 hrs. Lec.
Prerequisites: Music 9B is a prerequisite to Music 9C. Music 9C is a prerequisite to Music 9D. A comprehensive study of the theory of music to include skills and creative experiences in traditional harmony. An introduction to 20th century harmonic and melodic systems.

Mus 17A-B-C-D College Chamber Singers
(2-2-2-2)
3 hrs. Lab.
3 hrs. to be arranged
Prerequisite: Permission of the instructor. A performance organization,
presenting music of all styles, sacred
and secular, a cappella and accompanied.
A minimum of six outside performances
required each semester.

Mus 26A-B-C-D Rehearsal and Performance (1-1-1-1) 3 hrs. Lab.

Mus 27A-B-C-D Band (1-1-1-1) 3 hrs. Lab.

Mus 28A-B-C-D College Chorus (1-1-1-1) 3 hrs. Lab.

Voc Nurs 50 Medical-Surgical Nursing (10)

10 hrs. Lec.
Prerequisite: Admission to Program.
Introduction to the relationship that
exists between the nurse and the patient
and between the nurse and other members
of the health team. The legal aspects
and ethical responsibilities in vocational
nursing.

X. CHANGES IN COURSES OF INSTRUCTION CONTINUED

Foundation and theory of principles of nursing care as they relate to patients with musculo-skeletal, circulatory, and communicable diseases. The normal as well as the abnormal will be studied. The vocational nurse's responsibility toward prevention of disease and rehabilitation. Application of these principles during nursing care experience with patients of all ages. The basic skills required to meet the immediate needs of the patient. Includes study of gross anatomy and physiology as well as the emotional, physical, psychological impact of illness on a patient and his family and the nursing care implications as it relates to the patient. Medications and diet are integrated throughout.

Voc Nurs 51 Clinical Fundamentals (7)

21 hrs. Lab.

Prerequisite: Enrollment in the nursing program. Total patient care, including more complex procedures and medications. Clinical experience in hospital.

Voc Nurs 52 Medical-Surgical Nursing (4)
4 hrs. Lec.
Prerequisite: Vocational Nursing 50.
Development of previously learned skills in addition to procedures of more complex nature as related to the total patient needs as well as the specific diseases and disorders. Encouragement to adapt knowledge to patient situations independently. Introduction to nursing

care plans as a means of communication and continuity of patient care. Nursing care planning for patients with excretory, integumentary and respiratory system disorders. Basic nutritional theory and its relationship in health and disease.

Voc Nurs 53 Maternal-Childhealth Nursing
(6) 6 hrs. Lec.
Prerequisite: Vocational Nursing 50.
Maternal and childhealth is stressed
with emphasis on the normal growth and
development pattern. Abnormal conditions are introduced as they relate to
prevention and control. Nursing care
of the mother and child for specific
normal and abnormal conditions. The
role of the vocational nurse and her
nursing responsibilities to the family
as a whole.

Voc Nurs 54 Clinical Fundamentals (7)

21 hrs. Lab.
Concurrent with Voc Nurs 53 and Voc Nurs
54. Total patient care, including
more complex procedures and medications.
Clinical experience in hospital.

Voc Nurs 55 Medical-Surgical Nursing (10)

10 hrs. Lec.
Prerequisite: Vocational Nursing 52.
Continuation of development of proficiency in performing procedures and planning total patient care. Independent decision making within the realm of the vocational nurse. Intensive and comprehensive nursing techniques. Employment opportunities, organizations helpful to the vocational nurse, and licensing requirements. Nursing care of pa-

X. CHANGES IN COURSES OF INSTRUCTION CONTINUED

tients with health problems involving the digestive, endocrine and nervous systems. Previously learned nursing care will be emphasized and correlated as it relates to these in order to develop nursing judgment within the realm of the vocational nurse. Stress will be placed on planning nursing care and making independent decisions.

Voc Nurs 56 Clinical Fundamentals (7)
21 hrs. Lab.
Concurrent with Voc Nurs 55. Total
patient care, including more complex
procedures and medications. Clinical
experience in hospital.

CURRICULUM First Year

	LTIGG YOUR	
	Units Units	
	1st S. 2nd S.	
R.N. 1-2	Registered Nursing7 7	
Anat 10	Anatomy-Physiology5	
Psych 1A		
Physical	Education	
Bio 21	Gen. Microbiology	
Eng 1A	Reading and Comp 3	
Soc 1	Principles of Sociol. $\frac{3}{15 \cdot 1/2}$ $\frac{3}{17 \cdot 1/2}$	

Summer Session

R.N. 3 Registered Nursing....2

CURRICULUM ADRN CONTINUED

X. CHANGES IN COURSES OF INSTRUCTION CONTINUED CURRICULUM ADRN CONTINUED

Second Year

R.N. 4-5 Registered Nursing9 Communications Elective3 "American Institutions"	10
Elective	3 1/2 3
15 1/2	16 1/2

R.N. 1 Registered Nursing (7) 4 hrs. Lec. 9 hrs. Lab. Prerequisite: Admission to ADRN Program. Introduction to nursing including role and functions of the nurse in health and illness. Historical foundations and trends of nursing and health care. Theory and integrated clinical experiences in basic nursing principles and skills which meet nursing needs common to individuals of all ages. Principles of growth and development and mental health concepts introduced. Community resources for health care, legal responsibilities of the nurse, communication skills, pharmacology, nutrition in health and disease all introduced and then integrated throughout nursing program.

R.N. 2 Registered Nursing (7) 4 hrs. Lec.
9 hrs. Lab.
Prerequisite: R.N. 1. Physiological
and psychological responses to trauma
and disease are studied as are the more
common health problems encountered by

X. CHANGES IN COURSES OF INSTRUCTION CONTINUED

individuals of all ages. Special needs of patients before, during and after surgery included. Interrelatedness of emotions and organic disease introduced. Personality development, understanding of self and therapeutic nursing roles are studied.

- R.N. 3 Registered Nursing (2) 6 hrs. Lec. 3-week summer session 18 hrs. Lab. Prerequisite: R.N. 1 and 2, Psychology 1A. Role of the nurse in interacting with individual or groups of mentally ill patients in selected settings. Emphasis on skills needed to meet nursing needs of individuals whose thought processes and behavior interfere with normal living. Experience in participating with the interdisciplinary psychiatric team.
- R.N. 4 Registered Nursing (9) 4 hrs. Lec. 15 hrs. Lab. Prerequisite: R.N. 1, 2, 3. Concepts of maternal and infant health preceding, during the following normal birth with special emphasis on the role of the family. Community resources that contribute to welfare of mothers, children and family stressed. Nursing needs of complications of pregnancy and the newborn studied. Common health problems of children and young adults studied. Selected learning experience in the care of children provided in various settings. Pharmacology, diet therapy and mental health concepts continue to be integrated throughout.

- X. CHANGES IN COURSES OF INSTRUCTION CONTINUED
 - R.N. 5 Registered Nursing (10)

5 hrs. Lec. 15 hrs. Lab. Prerequisite: R.N. 1,2,3,4. Development of skills and attitudes required to plan, carry out and evaluate total nursing care of patients of all ages with complex health problems in the home and the hospital. Opportunity given to work with groups of patients and to participate in nursing team leadership. The need for patient teaching, rehabil ation, health maintenance and community resources are stressed. Trends in nursing and health care as well as career opportunities for registered nurses discussed.

- Poly Sci 14 Introduction to International Relations (3) 3 hrs. Lec. (Delete the prerequisite)
- Psych 2 Introduction to Physiological Psychology (3) 3 hrs. Lec. Prerequisite: Psychology 1A.
- Psych 3 Psychology of Personal and Social Adjustment (3) 3 hrs. Lec. Prerequisite: Psychology 1A
- Psych 40 Developmental Psychology of
 Children (3) 3 hrs. Lec.
 Prerequisites: None. A study of the
 psychological development of children,
 aimed at immediate and practical application of child-rearing theory and practice, designed for prospective parents,
 parents, and those working with children.
 The course will cover the research and
 theories on factors affecting or altering

X. CHANGES IN COURSES OF INSTRUCTION CONTINUED

childrens' behavior, intelligence, learning, mental and physical well being, and motivation. The factors covered would include heredity, environment, maturation, and prenatal, natal, and postnatal physiology.

SPANISH (Page 106 in General Catalog)

High school Spanish courses may be used to meet the prerequisites of advanced Spanish courses at Imperial Valley College only if they include training in all four basic language skills: listening, speaking, reading, and writing. The courses must have included phonetics practice in both guided and free conversation as well as in reading aloud; testing in reading and listening comprehension; writing from dictation; and word-picture association. These high school courses will not count as college credit toward graduation. Placement will be made by examination and/or consent of the instructor. Contact the Imperial Valley College Counseling Office for further information.

The last year course taken by a student in the high school language sequence may be repeated in college for graduation credit, not to exceed four units of repeated foreign language work. For advanced placement, at least one course in Spanish must have been taken the year prior to entering college; otherwise, it is suggested that the student enroll in Spanish 1.

The above requirements may be waived by examination or by consent of the instructor. K-27

Span 1 Elementary Spanish (4) 4 hrs. Lec.
1 hr. Lab.
(T.B.A.)

The course, based on a contrastive analysis between Spanish and English, is designed to develop in the English-speaking student, rudimentary abilities in the four basic language skills: hearing, speaking, reading, and writing. The student will be familiarized with those features of Hispanic culture which reflect the different frame of reference from which tre native speaker of Spanish views the world around him. Not open to students with native ability in Spanish. The student must plan for an additional hour of individual language laboratory.

Span 2 Elementary Spanish (4) 4 hrs. Lec.
1 hr. Lab.
(T.B.A.)

Prerequisite: Spanish 1 or one year of high school Spanish. Continuation of Spanish 1. Not open to students with native ability in Spanish. The student must plan for an additional hour of individual language laboratory.

- Span 3 Intermediate Spanish (4) (Change to 4 hrs. Lec., 1 hr. Lab.)
- Span 4 Intermediate Spanish (4) (Change to 4 hrs. Lec., 1 hr. Lab.)
- Span 5A Spanish Conversation and
 Composition (3) 3 hrs. Lec.
 Prerequisites: Spanish 4 and at least
 one course in Conversational Spanish or
 by examination. Students who have had

X. CHANGES IN COURSES OF INSTRUCTION CONTINUED

four years of high school Spanish may be enrolled by consent of the instructor. Advanced Spanish. Study and discussion of literary selections. Imitation of short written selections and original student compositions. Grammar review of the indicative mood, especially the future and the conditional tenses.

- Span 5B Spanish Conversation and Composition (3) 3 hrs. Lec. Prerequisites: Spanish 4 and at least one course in Conversational Spanish or by examination. Students who have had four years of high school Spanish may be enrolled by consent of the instructor. Advanced Spanish. Study and discussion of literary selections. Imitation of short written selections. Review of the subjective mood, prepositions, preterit and imperfect indicative
- Span 10 Conversational Spanish (2) (Change to 2 hrs. Lec., 1 hr. Lab.)
- Span 18 Intermediate Shorthand for Bilinguals (3)
 (Same as Bus 18) 2 hrs. Lec. 3 hrs. Lab.

Span 20A-B Beginning Spanish for Bilingual
(3-3) 3 hrs. Lec.

Prerequisites: Must have a speaking knowledge of the language such as one might find in a typical home where

might find in a typical home where Spanish is spoken. This course is for the bilingual student interested in learning to read and write Spanish.

Span 40 Spanish Civilization (3)

3 hrs. Lec.
A general survey of the physical, racial, historical, and artistic influences -Oriental, Jewish, and African -- which have molded Spanish culture from prehistory to present time. Illustrated lectures, outside readings and written reports on assigned topics. Conducted in English.

Span 41 Spanish-American Civilization (3)
3 hrs. Lec.
A general survey of the indigenous,
European and African heritage of Spanish
America as expressed through the centuries
in literature, art, and philosophy.
Illustrated lectures on history, geography, customs, folklore, etc. From preColumbian times to the present. Conducted in English.

Special Studies 58 Behavioral Science (1-3) 1 - 3 hrs.

SPECIAL STUDIES 51-58 Course Description:

Course content, prerequisites, and unit credit to be determined by the division and the office of instruction in relation to community-student interest and available staff. Not offered every semester.

Weld 30 Arc Welding (Change to 2 hrs. Lec., 3 hrs. Lab.)

- X. CHANGES IN COURSES OF INSTRUCTION CONTINUED
 - Span 24 Introduction to Spanish Literature for Bilinguals (3) 3 hrs. Lec. Prerequisite: Spanish 22 or consent of instructor. Course conducted in Spanish. Introduction to the more important movements, authors, and works in Spanish literature from the Middle Ages to the present. Lecture; readings on assigned topics. It is recommended that Spanish 40 be taken concurrently with this course.
 - Literature for Bilinguals (3)
 3 hrs. Lec.
 Prerequisites: Consent of the instructor. Course conducted in Spanish. An introduction to the more important movements, authors, and works in Spanish-American literature from the conquest to the present time. Lectures; readings on assigned topics. It is recommended

that Spanish 41 be taken concurrently.

Span 25 Introduction to Spanish-American

Span 28A-B The Mexican-American in
Literature (3-3) 3 hrs. Lec.
Prerequisite: Eligibility for English
1A. The study of the contributions in
all genres of literature by MexicanAmericans. Course to be developed
through the study of the Mexican-American historical and socio-cultural backgrounds, and by comparing and contrasting their works with their familiar
Anglo-American counterparts, as well
as the works of the familiar Mexican
authors. Spanish 28B may be taken before Spanish 28A.

Span 21 Spanish for Bilingual Students
(3) 3 hrs. Lec.

A course designed in an effort to further develop the ability of the bilingual student to use standard Spanish as opposed to colloquial Spanish, in a manner comparable to students in Hispanic universities. Intensive vocabulary building and translating, grammar and composition. The student is introduced to 20th century Spanish culture. This is a basic course for further study in Spanish.

Span 22 Spanish for Bilingual Students
(3) 3 hrs. Lec.
Prerequisites: Spanish 21 or placement
by examination. A continuation of
Spanish 21. Intermediate oral and
written composition. Review of the subjective mood. Intensive use of the
laboratory to improve oral ability. The
student is introduced to 20th century
Spanish-American culture.

Span 23 Business Correspondence in Spanish
(3) 3 hrs. Lec.
Prerequisites: Bilingual fluency and/
or consent of instructor. Recommended
for bilingual secretaries with Business
11 or equivalent. Practice in letter
form and style, business vocabulary,
spelling, and punctuation. Emphasis on
differences and similarities in English
and Spanish business correspondence.
(Same as Bus 23)

X. CHANGES IN COURSES OF INSTRUCTION CONTINUED

Weld 32 Oxy-Acetylene Welding (3)
2 hrs. Lec.
3 hrs. Lab.

Theory, practice and application of joining metals by the oxyacetylene process. Includes metal cladding, cutting and bronze welding.

Weld 34 Inert Gas Shielded Arc Welding (3)

2 hrs. Lec.
3 hrs. Lab.
Theory, practice, and application of
Tungsten-Inert-Gas and Metallic-InertGas processes on aluminum, stainless
steel, mild steel, and other exotic metal.

Weld 36A Advanced Welding (3) 2 hrs. Lec.

3 hrs. Lab.
Prerequisites: Welding 30 and Welding
32 or Welding 34 or approval of the instructor. Application of welding process to production techniques. Emphasis
is upon the welding industry and its
position in American society. Projects
will be developed both individually and
collectively. Experience is provided
in advanced form, in Arc, Tig, Mig and
gas.

Weld 36B Advanced Welding (3) 2 hrs. Lec.

3 hrs. Lab.
Prerequisites: Welding 36A or by permission of instructor. Emphasis is in the field of metal fabrication with concentration on design, layout, fitting, and welding of metal projects. Advanced forms of Arc, Tig, Mig, and Gas welding are included with a study of the mechanisms of welding equipment.

Weld 36C Advanced Welding (3) 2 hrs. Lec.
3 hrs. Lab.
Prerequisites: Welding 36B or by permission of instructor. Emphasis is in the field of the study of metals and metallurgy of welds. Studies are concentrated on the testing of metals, the atomic structure of metals, the effects of heat on metals, and the effects of welding in metals.

Weld 50 Shop Mathematics (3) 3 hrs. Lec. (Same as Ag 50, Auto Tech 50, & Math 50)

XI. CHANGES IN MAJORS

Generally, twenty units in a specified field of study will satisfy requirements for a Major. However, some majors (e.g., Nursing) may require additional study. An IVC counselor should be contacted if you have any questions.

Recommended and acceptable courses are defined as:

- Courses which would assist in the acquisition of greater knowledge relative to the major area and which could be selected from general education requirements and/or electives. Accordingly, these courses could be taken in addition to the required course work for the major; or ---
- Courses which could be taken as a substitute for the specific course work required in the major, providing:

X. CHANGES IN MAJORS CONTINUED

- a. The student has had previous experience or training relative to the required courses in question, and --
- b. The student follows standard petition procedures which include instructor approval of the petition request for required course substitutes.

Agricultural Chemical Technology

Change the units to 3 for Ag 14, Ag 31A, Ag 31B, and Ag 65

Change the course number and title for Ag 61, Commercial Fertilizers, to Ag 41, Fertilizers.

Agricultural Engineering

Change the units for Ag 30 to 3 and for Ag 31A-B to 3-3.

Foreign Language

Change the units for Span 5 to 3

Following Section III, add the following:

Students with one year high school foreign language with skills in listening, speaking, reading and writing, meeting Level I objectives may enter Course #2(Fr 2, Span 2, Ger 2); two years, Course #3 (Fr 3, Span 3, Ger 3); three years, Course #4 or #11 (Fr 4 and 11, Span 4 and 11); four years, Course #5 (Span 5). Conversation courses should be taken concurrently (Fr 3 and 10, Fr 4 and 11; Span 3 and 10; Span 4 and 11).

XI. CHANGES IN MAJORS CONTINUED FOREIGN LANGUAGE CONTINUED

Students should contact foreign language instructors and counselors in order to determine whether they have met the designated behavioral objectives for Level I, II, III, IV, or V Courses.

General Science

(Physical Science)

Change the units to 4-4 for Phys 2A-B.

Human Relations

I. Required courses for the major

H.R. 7	2	Smal	1	Gr	oup	Le	ac	le	rs	h	i	p.			(3)
H.R. 7	3	Prac	ti	c u	m								٠	٠	(2)
Psych	1A	Gene	ra	1	Psy	cho	10	g	у.						(3)
Sociol	1	Prin	ci	p1	es	οf	Sc	c	10	1	0	gy			(3)
Psych	3	Psyc	ho	10	gy	οf	Pε	r	sc	n	a	1			
		and	80	01	9.7	Ad-	9116	+	mc	n	+				131

II. Recommended Courses

Anthro	2	Cultural Anthropology(3)
Psych	1B	Advanced General
		Psychology(3)
Socio	2	Contemporary Social
		Problems(3)
Socio	33	Marriage and the
		Family(3)
Psych	40	Developmental Psychology
		of Children(3
Sp 1		Oral Communication(3

XI. CHANGES IN MAJORS CONTINUED HUMAN RELATIONS CONTINUED

III.	Acceptable	courses	for	the	major	from
	related fi	el d s				

Bus 21	Elementary Typewriting(2)
Bus 62	Records Management(3)
H.R. 60	Career Planning(1)
H.R. 61	College Study
11 D CF	Technique(1)
H.R. 65	The Student in Contem-
	porary College Affairs(3)
Law Enf 21	Survey of Law
	Enforcement(3)
Law Enf 37	
W.E.Vac63A	
	in Business Life(4)
W.E.Voc6 3B	
	,,,,,,
W.E.Voc63C	Human Relations and
	Motivation(4)
W.E.Voc63D	Personality Health for
i t	Personal Leadership(4)
W.E.Voc63E	Manpower and Work
	Experience(4)
1041 0 WORT	a valv

Nursing (Vocational)

I. Required courses for the major

Voc	Nurs	50	Medical-Surgical
			Nursing(10)
Voc	Nurs	51	Clinical Fundamentals(7)
Voc	Nurs	52	Medical-Surgical
			Nursing(4)
Voc	Nurs	53	Maternal-Child Health
			Nursing(6)
Voc	Nurs	54	Clinical Fundamentals(7)
Voc	Nurs	55	Medical-Surgical
			Nursing(10)
Voc	Nurs	56	Clinical Fundamentals(7)

XI.	CHANGES IN MAJORS CONTINUED WELDING TECHNOLOGY CONTINUED
	Ag 38 Electricity on the Farm(3) *Math 50 Shop Mathematics(3) *(if required)
	II. Recommended courses
	Env Sci 5 Man and his Environment(3) Chem 2A Introduction to Chemistry(4) Bus 52 Practical Salesmanship(3)
I	II. Acceptable courses for the major from related fields
	Engr 21 Technical Drawing(3) Engr 72A Surveying for Engineering Technology(3) Bus 51 Orientation to Business(3) W.E. Voc. 63A Practical Psychology in Business Life(4)
	Ag 33A Farm Power
XII.	CHANGES IN CERTIFICATE PROGRAMS
	Automotive Technology
	Add Auto Tech 50 Shop Math (if required)
	After the list of required courses for the certificate, add the following:
	The following courses may be substituted for any of the above required courses:
	CONTINUED

XII.	CHANGES IN	CERTIFICATE	PROGRAMS	CONTINUED
	AUTOMOTIVE	TECHNOLOGY	CONTINUED	

Auto	Tech	57	Fluid	Power							•						4
Auto	Tech	58	Autom	otive	Αi	r-	Co	nd	li	tí	. 0	n	í	n	g		3
Auto	Tech	59	Small	Gaso1	lin	e	En	gi	n.	es			•				3
Weld	30		Arc W	elding	ζ											٠	3
Weld	32			elding													

Human Relations (new certificate program)

The satisfactory completion of the following courses will make the student eligible for a certificate in Human Relations which will prepare him for employment as counselor aide, vocation rehabilitation aide, eligibility worker, social service technician and other pre-professional positions in people-to-people services. This training should prepare the student to be sensitively aware of individual needs when dealing with people in crisis situations.

H.R. 72	Small Groups Leadership3
H.R. 73	Practicum
Sociol 1	Principles of Sociology3
Sociol 33	Marriage and the Family3
Psych 1A	General Psychology3
	Psychology of Personal and
*	Social Adjustment3
Electives Acceptable	chosen from Recommended or
	f the Major3
Courses o.	20

Law Enforcement

Change the units for H.E. 2 to 2, and change total units to 28.

XII. CHANGES IN CERTIFICATE PROGRAMS CONTINUED

Vocational Nursing

			Units
Voc	Nurs	50	Medical-Surgical Nursing10
Voc	Nurs	51	Clinical Fundamentals7
Voc	Nurs	52	Medical-Surgical Nursing4
Voc	Nurs	53	Maternal-Childhealth6
Voc	Nurs	54	Clinical Fundamentals7
Voc	Nurs	55	Medical-Surgical Nursing10
Voc	Nurs	56	Clinical Fundamentals7

Total Units -- 51

Welding

Weld	30	Arc	We	1d:	ing						٠			٠	•			٠	٠	٠	. 3
Weld	32	Oxy.																			
Weld	34	Ine	rt	Gas	s S	hi	le1	đе	d	A	r	С									
		Wel	din	g.																	. 3
Weld	36A	Adv	anc	ed	We	10	lin	g.												•	. 3
Weld	36B	Adv	anc	ed	We	10	lin	g.											٠		. 3
*Ag 3	0	Agr	icu	1t	ura	.1	Me	ch	aı	1i	c	s,					٠		٠		. 3
*Ag 3	8	Ele	ctr	ic	ity		n	th	e	F	a	rn	١.			•	•	٠	•	•	.3

Total Units -- 21

^{*}Substitutions may be made upon approval by the instructor.

IMPERIAL VALLEY COLLEGE 1971-73 CATALOG ADDENDUM CONTINUED Page 2

Page 100 - Under Curriculum, Summer Session, R. N. 3, Registered Nursing, add, "2 units."

> R. N. 1, Registered Nursing, change to 3 hrs. Lec. and 9 hrs. Lab.

- Page 107 Span 10, Conversational Spanish, change to 2 hrs. Lec. and 1 hr. Lab.
- Page 112 W. E. Gen 62E, Manpower and Work Experience, change to 2 hrs. Lec. and 30 hrs. Lab.
- Page 138 Under Psychology, change Psych 1 to Psych 1A and add Psych 1B,
 Advanced General Psychology,
 3 units.

IMPERIAL VALLEY COLLEGE 1971-73 CATALOG ADDENDUM

Page 37 - Change course title for Hum 3A from History and Appreciation of Art to Introduction to Film Criticism.

Under IV, General Education, Item 2, Communications, add, "Span 24, Introduction to Spanish Literature for Bilinguals; Sp 1, Public Speaking; Sp 2, Intermediate Public Speaking; Sp 10, Argumentation and Debate; Sp 51, Basic Speech."

Page 56 - Bus 22A-B, Proficiency-Exit
Typewriting, change to 1 hr. Lec.
and 4 hrs. Lab.

Bus 24, Office Procedures, change to 2 hrs. Lec. and 3 hrs. Lab.

Bus 26, Elementary Shorthand, delete "...and students who plan to enter the secretarial field."

- Page 60 Bus 84 Legal Dictation, change required dictation rate from 80 wpr to 60 wpm.
- Page 72 Eng 48, Power Reading, change to 1 hr. Lab. and 2 hrs. Lec.
- Page 96 Mus 27A-B-C-D, course title is "Band."
- Page 98 Voc Nurs 73A, Professional Relations - Prerequisite: Enrollment in the nursing program.