

# IMPERIAL VALLEY COLLEGE 

1979-81

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

Phone 352-8320 IMPERIAL COUNTY, CALIFORNIA

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## IMPERIAL VALLEY COLLEGE

## ACCREDITED

by
Accrediting Commission for Junior Colleges Western Association of Schools and Colleges

The State Department of Education
National League for Nursing
American Welding Society

## A <br> MEMBER

of
California Community and Junior College Association

## APPROVED

for
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## IMPERIAL VALLEY COLLEGE 1979-1980 SCHOOL CALENDAR

## 1979

| August | $\begin{aligned} & 28 \\ & 29 \\ & 30 \end{aligned}$ | Tuesday Wednesday Thursday | Faculty Orientation Faculty Orientation/Registration Registration |
| :---: | :---: | :---: | :---: |
| September | 4 | Tuesday | Fall Semester classes begin |
| November | $\begin{array}{r} 12 \\ 22-23 \end{array}$ | Monday <br> Thursday - Friday | Holiday (Veterans Day) <br> Recess (Thanksgiving) |
| December | 17 | Monday | Recess (Christmas) |
| 1980 |  |  |  |
| January | $\begin{array}{r} 1 \\ 17-24 \\ 24 \\ 25 \\ 28 \end{array}$ | Tuesday <br> Thursday - Thursday <br> Thursday <br> Friday <br> Monday | Last day of recess (Christmas) <br> Final Exams <br> Registration <br> Registration/Faculty Orientation <br> Spring Semester classes begin |
| February | $\begin{aligned} & 12 \\ & 18 \end{aligned}$ | Tuesday Monday | Holiday (Lincoln's birthday) <br> Holiday (Washington's birthday) |
| March | 31 | Monday | Recess (Spring) |
| April | 4 | Friday | Last day of recess (Spring) |
| May | $\begin{aligned} & 26 \\ & 30 \end{aligned}$ | Monday Friday | Holiday (Memorial Day) Final Exams |
| June | $\begin{aligned} & 6 \\ & 7 \end{aligned}$ | Friday Saturday | Last day of final exams Graduation |

## IMPERIAL VALLEY COLLEGE DEADLINE DATES <br> FALL SEMESTER 1979



| January | 27 | Sunday |
| :--- | ---: | :--- |
| January | 28 | Monday |
| February | 8 | Friday |
| February | 18 | Monday | | Residence Determination Date Spring Semester 1980 |
| :--- |
| February |$\quad 22$ Friday | Last Day to Add or Register (End of 2nd Week) |
| :--- |
| March |

## THE BOARD OF TRUSTEES IMPERIAL COMMUNITY COLLEGE DISTRICT

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## 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. Te mida, eltigh and winters have 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 tance 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 fifty-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 conified school districts.
It had its beginning on May 9, 1922, when the Board of
Thist 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
Schoi District Opened classes at the Brawley Junior School
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 was close of the 1947 school year.
Although enrollment dropped at Central Junior Colliege, 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 the fall of 1951, students, in cooperation with the adminstration and faculty, petitioned the Board of Trustees for a more representative name for the college, for it was now more represents from all of the Imperial Valiey. 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 wise in the community, this growth was reflected in the steady rise in was offered.
The extended-day program, which offered regular college
classes at night, was initiated on a limited basis in 1952. Its classes at night, was initiated on a limited basis in 1952 . Its rapid growth ser
the community.
An increasing number of students from other high school districts attended the college in El Centro, and it was felt that 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 Allege district be established in Imperial County was
submitted to the State Department of Education and 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 Schools then set a date for an election at which all qualified oters residing within the boundaries of the seven high
chool and unified school districts were eligible to vote. The 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 followe
by the election of the members of the Junior College District By the election of the members of the Junior Coliege Tistric seven high school or unified school districts represented in the area served by the Imperial Junior College District.
This District includes all of Imperial County except a small area in the northwest corner of the County which is
Because of the increase in enrollment at both Central 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 quariers erected on herial, California mperial Valley Union On October 4, 1960, an all-time state record was set by the
people of Imperial County when they voted thirteen to one in people of Imperial County when they voted hirteen tompus.
favor of bonds to finance the building of a new campu
The Board of Trustees selected a nationally known The Board of Trustees selected a nationally known
architectural firm to plan the new buildings, and a 160 acre site which met the criteria recommended by the Citizens Committee was selected for the new campus.
On January 13, 1971, the Board of Trustees changed the name of the District to Imperial Community College District in order to further emphasize
college has with its service area.

## facilities

On October 29, 1961, an impressive ground-breaking service was held for the new campus. Board member for the project. The new buildings include a library, science laboratories, fine arts rooms, student activities building, academic classrooms, administration and faculty offices,
shalial science roms, physical education shower and locker social science rooms, physical education show and shop. The
rooms, and agricultural education classrooms and rooms, and agriculturaleducat
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,
events. It was completed in April, 1967.
In 1975 the college opened a new Library and Media extensive learning services than the original Library. It also houses a variety of audiovisual equipment and materials, circulates audiovisual equipment throughout the campus, has coliections and multi-media kits that are used in the library and in classrooms.
Since 1962 the college has opened the Meyer Center for Business and Commerce, a new agriculture-welding
complex, a new student activities building, an art museum, and an archaeological museum was opened in downtown El centro.

## OBJECTIVES AND PHILOSOPHY

A public community college serves as an apex to the ocally controlled public education program. It provides an ideals of democracy.
It is therefore the objective of this college to provide educational experiences which prom
undamental democratic way of life.
A community college education may well be the las organized effort made by students to improve knowledge skills, and understanding. It is the accepted obligation of the in using the essential skills of communication, improve thei nowledge and appreciation of the history of our culture and further develop understandings of other nations and ppreciation for their cultures. The community colleg mathematics and science as a resource for the control of our nvironment or as an extension of the knowledge of that environment.
The major purpose of the college is to further the select appropriate occupational and intellectual goals, and oreach these goals through the planning and completion of ppropriate educational programs.
The best college education provides for the developmen of responsible self-direction by all students. The aim of the college is to assiststudents to gain the necessary knowledge hen 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 orf apportunities In a world characterized by rapid social and technological evere the college accepts as an objective the livelopmen of moral and spiritual values, ethical ideals and the ppreciation of the high standards of conduct.
In its required general education program the college experiences, the ouidelines necessary for the examination and development of appropriate value systems.
The best college program for today is likely to be nadequate 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 up with their fields of specialty, special consultants are asked
to review and evaluate, and citizens' advisory groups are asked to make recommendations concerning occupationa programs.
The college aims to keep the people of the county who own he school fully informed concerning its programs, need purposes and the opportunities which it presents.
Some goals of general education, expressed as objectives in the following ways:

1. Exercising the privileges and responsibilities of 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 i
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.
2. Expressing his thoughts clearly in speaking, writing, reading and in listening with understanding through participation in English and speech classes, and in lasses formed to develop special study skills; and as practiced in all instructional situations.
3. Using basic mathematical skills necessary in everyday
4. Understanding his cultural heritage so that he may gain a perspective of his time and place in the world,
studied in the recommended humanities program.
5. Using methods of critical thinking for the solution of problems and for discrimination among values, as studied in science, mathematics, philosophy, social tudies and other classes
6. Understanding his interaction with his biological and ohysical environment so that he may better adjust to and mprove that environment, as studied in the
recommended science program
7. 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 entrylevel skills and 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. Thus students have an opportunity to begin their advanced education while still residing at home. Not only can this opportunity be of great financial assistance, but campus and the large, often impersonal, four-year college campus. The intimate, though scholarly, atmosphere of the college; the opportunity for each student to know his
instructors personally; and the chance to participate in the counseling program; all offer invaluable opportunities to the student that might not be available in an institution where the very size of enrollment makes personal interest in every student more difficult. Not only can the student receive 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 time to prepare 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 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 study which may be taken by adults who can demonstrate their ability to do college work but who have not had the
opportunity to complete 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 four programs designed wevote only evenings to
students in mind: students who can der school; students who cannot fully participate in regular classes on the main campus; students who can coordinate their college study with a program of employment; and the
outstanding high school 11th and 12th grade students who can profit by special work at the college level.

1. The Evening College

The Evening College, 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 evening college programs require more time to complete than the day programs, students find that with adequate planning and the assistance of a counselor, surprisingly short time.
2. The External Campus

The External Campus is an outreach effort by imperial Valley College for coping with the geography of Imperial personal circumstances that make it difficult for full participation in regular classes on the main campus. Shor-term courses are offered at various intervals during the academic year. The classes are taught in effort to bring classes to people in their community.
3. Cooperative Work Experience

Cooperative Work Experience is a cooperative ducational program between Imperial Valley college provides the organization, the coordination of class facilities and the personnel for the program. The employers provide phich has educational value for the students. The units of credit earned may be used to meet he requirements of a certificate or a degre
4. Attendance of Local High School Students

Local high school students attending the college under the Honors or Vocational programs are restricted to a spectator's role in college student activities, and extracurricular participation is to be confined to the high effort will be made to leave this responsibility to the high school counseling staffs.
Students must be authorized for attendance and shal receive appropriate college credit. High school credit for Honors or Vocational classes may be negotiated.
Students must attend high school for the minimum

## school day

Admission of 11th and 12 th Grade High School Students The president of any two-year community college may admit to the community college as a special part-tim
student any 11th or 12 th-grade high school studen whose admission is recommended by his high schoo principal. A principal of a high school may recommend a high school student as a special part-time studen py the governing board of the district maintaining the
high school. A principal of a high school shall no high school. A principal of a high schoor shan recommend a number of high school students in exces of 15 percent of the total number of 1 th and 12 th-grade students enrolled in the high school at the time o recommendation.
The attendance of a student at community college as a special part-time student pursuant to this section is
authorized attendance and the student shall receive authorized attendance and the student shall receive
credit for community college courses which he credit for community coliege courses which in the same manner as in aresty enrolled community college student unless, upon agreement between the two districts, the studen
receives high school credit for the course completed.
Each special part-time student shall attend high schoo Each special part-time student shail attend high school
classes for at least the minimum schoolday. (E.C. 76001 )
Admittance of Pupil Who Has Completed 11th Grade to Admittance of Pupir Who Has Completed
The president of any two-year community college may admit to the summer session of the community college as a special student any high school student who has
completed the 11th grade and whose admission to completed the 11 th grade and whose admission th
summer session is recommended by the principal of the high school in which the student completed the 11th grade. A principal of a high school may recommend such a student as a special student pursuant to rules and regulations which may be adopted by the governing
board of the district maintaining the high school. A principal of a high school shall not recommend a number of students who have completed the 11 th grade in exces of 5 percent of the total number of students in the high prior to the time of recommendation.
The attendance of a student at community college as a special summer session student pursuant to this section shall be credited to the district maintaining the community college for the purposes of allowances and student shall receive credit for community college courses which he completes, in the same manner as if he were a regularly enrolled community college studen (E.C. 76002)

## DEGREES

The Board of Trustees, on recommendation of the president and faculty of the college, is authorized in 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 wn division four-year college type. A student who wishes to transfer to the upper division of a four-year college must satisty the course, unit, and college he wishes to enter.

SCHOLASTIC HONOR
"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 hose grades for the previous semester show a 3.0 average or better in twelve or more units of work.

## Alpha Gamma Sigma

mitial Membership. A person may attain initial membership if the person has:

1. Completed 12 semester units in a maximum of 3
2. A cumulative grade point average of 3.25 . No units Acquired more than two years prior to application fo
Continuing Membership. An initial member may attain ership by
3. Achieving for the previous semester not less than a
4. $\stackrel{\text { M }}{\text { Maintaining a cumulative GPA of } 3.25 \text { or better in }}$
courses of recognized college standing.
grace for every semester of one semester's membership. If the continuing member's GPA falls membership. If the continuing member's GPA falls or cumulative), he may apply one semester's grace semester the earned GPA would apply. There shall be no two consecutive grace periods.
Permanent Member. Any person who has completed a minimum of 60 units of recognized college courses with a minimum of 30 units completed at a community college who the following requirements: 1. A person who has maintained a cumulative grade
point ratio of 3.5 or above in all recognized college work.
5. Any continuing member who has maintained a college work and has been a member of AGS. Inc. for a minimum of two semesters.
Any courses completed two years prior to application for other institution of higher education, shall not be used to prohibit any person from becoming a permanent member.

## INANCIAL ASSISTANCE

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, the state and federal groups, and individual citizens
The college participates in available federal financial aids programs.

In addition to the federal programs, there is aid available from the state and the local district in the form of schorships, work-study grants, and loans.
Further information regarding financial assistance may be Center.

## EXPENSES

There is no tuition charge for students who are legal California residents. Tuition for out-of-state students and $\$ 810.00$ per semester with no exemptions. $\$ 80.0$ per semester win no exemplions.
Expenses normally incurred by all students are for books and supplies. These expenses average approximately $\$ 7.00$ taken.

## REGISTRATION FEE

The College assesses a $\$ 20.00$ Registration Fee $\$ \$ 10.00$ Registration Fee for External Campus) each semester. This fee is for registion and other general costs and is nonrefundable.

## TUITION REFUND POLICY

Refund in full will be received for the following: 1. Tuition collected in

Refund Schedule
$100 \%$ - Before the first day of classes
$75 \%$ - During the first week of classes $50 \%$ - During the second week of classes $25 \%-$ During the third week of classes
$0 \%-$ During the fourth week and thereafter

## accreditation

The college is officially accredited by the Accrediting Commission for Junior Colleges, Western Association of Schools and Colleges, National League for Nursing Education. The University of California and other college 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 Student Services Center, and students are requested to contact the counseling office
hours of 8:00 a.m. and 10:00 p.m.
Through Counseling Services, the TRIO programs (Upward Bound and Special Services) are available on an annual grant basis. These programs provide broadened cultural and academic learning experiences for both high school and college students.
Although counselors assist in long-range planning and in checking specific requirements, THE RESPONSIBILITY
FOR METING GRADUATON REQUREMENTS OR FOR MEETING GRADUATION REQUIREMENTS OR OR UNIVENSITIES MUST BE ASSUMED BY EACH STUDENT. In the Counseling Center, as well as in the Career
Center, students have access to a reference library of catalogs from various colleges and universities.

## 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.
bOOKStORE AND COLLEGE CENTER
The college bookstore is maintained by the district through a lease arrangement with a private company. All college textbooks and necessary supplies are available. The provides refreshments and meals for the students.

ATHLETICS
The college is a member of the Desert Conference, The college is a morstow, College of the Desert, MiraCosta Mount San Jacinto, Palo Verde, Victor Valley and Imperial Valley. The Desert Conference is a part of the Southern Section of the California Junior College Association
intercollegiate competition is held in football, basketball wrestling, golf, track. cross country, tennis, baseball, wresting, goif, track.
volleyball and soccer.

## LEARNING SUPPORTIVE SERVICES

Learning supportive services are designed to provide extensive programs for remediation and enrichmen earning and to offer courses designed for the student to gain mastery of study skills and learning techniques. Tutoria assistance services are also available in the Learnin
Supportive Services Center, and a newly organized Imperia Valley College Tutors Club provides many academic enrichment activities for students interested as tutors. I addition, bilingual services exist for students with limited English-speaking ability and who desire aca
assistance in lingual interpretation in their courses.
The Learning Supportive Services Center houses a variety The Learning Supportive Services Center houses a variety
of audiovisual equipment and media. It has an extensiv inventory of slides, tapes, filmstrips, records, multi-media kits, and other instructional learning materials which supplement the broad subject range of courses offered on
this campus. An extensive videocassette library has been developed which provides students with an opportunity to view educationally relevant television broadcasts and view educationa
motion pictures.
Nursing and Health Technologies maintains an audio visual center and learning laboratory in the 800 building. I has an extensive collection of media materials related to the students in mastering concepts and skills relating to their courses.

## 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. Imperial Valley College does not discriminate in the admission of students nor in the offering of programs and activities for any reason. Student who register for eight or more units of work in a given required (1) to submit a transcript of all work taken in high school and a transcript of any advanced work that has been completed, and (2) to take the college placement tests, which include Eng ssh and mathematics achievement tests, English and mathematics.
Failure to submit complete transcripts of prior college work may result in dismissal

1. Admission of High School Graduates. Graduates of our-year high schools are eligible for admission. A 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 the 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 ior 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 unit
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. (Se
"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 stanaluat
records
records.
Students applying for admission with advanced standing are subject to the same regulations governing probation and academic dismissal that apply to stud Imperial Valley College.
5. Admission of Students from Other States. Students from other states may be accepted for enrollment if they not to exceed a total of $\$ 810.00$ per semester, is charged out-of-state students.
6. Admission of Foreign Students. Foreign students may 6. Admission of Foreign Studenis. Foreign they meet the requirements of admission and if they have achieved
sufficient mastery of the English language, as evidenced by heir scores on entrance examinations, to participate in and profit from college class work. Tuition of $\$ 54.00$ per uni

## TRANSCRIPTS

Two transcripts of credits earned at Imperial Valley College are furnished free to the student at his request ranscript requested. Requests for transcripts will not be onored 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 solege for the following students:

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

FAMILY EDUCATIONAL RIGHTS AND
PRIVACY ACT OF 1974
All educational records of students who enroll at Imperia Valley College are kept in accordance with the provisions o
he Family Educational Rights and Privacy Act of 1974 .

The following information will be available in the Admissions and Counseling offices on each enrolled tudent: name, address, telephone, birthdate, registration number, list of classes and section numbers, instructors, dates of attendance, activities participated in and degrees awarded. Any student who does not wish his or her name included on this listing must file a petition requesting For additional information or a copy of the etire law contact the Vice President for Student Services in the Administration Building.

## RESIDENCE REQUIREMENTS

Each person enrolled in or applying for admission to a California community college is, for purposes of admission and tuition, classified as a "district resident," a "non-distric sident," or a "nonresident."
If a student is classified as a district resident or a nondistrict resident, he will be admitted to the college withou e required to pay tuition in an amount set by the governing board of the district of enrollment.
A "district resident" is a person who has resided within arm of enrollment.

A "non-district resident" is a student who has lived in California for more than one year, but whose residence is in a

A "nonresident" student is one who does not have resident determination date.
Generally, residency requires actual physical presence in One's state coupled with an intent to make one's ook at objective indications of the student's intent.

Examples of evidence that aid the college admission officer in identifying that intent, but which are not individually decisive, are possession of a document of California origin such as a driver's license, a current utility agreement or rent receipt showing the student's name and address and place of residence, a library card, last year' state and federal income tax information, a current charg account or credit, or a checkbook.

Any one or a combination of these gives some indication to the admissions officer of the student's intent. Possession of the necessary intent coupled with the durational equirements, and the year will satisfy the residency student.

Unmarried minors (those under 18 years of age) are by law ing their physical presence within California. An admissions officer will use the following guidelines for the determination of a minor applicant's residence:

If the minor's parent father is living, the residence of not living, the residence of the natural mother is the not living, the residence of the natural mother is the
residence of the minor. If the natural mother has remarried, and she has not established her own residence following such marriage, the resident of the adoption or guardianship where either natural parent is not living, the residence of the adopting parent or the guardian is the residence of the minor.

A minor whose parents are not living and who does no have a legal guardian may establish his own residence, may not by his own act establish residence, nor will the appointment of a guardian or the relinquishment of the parent's right of contron give that minor the ability to -

Exceptions to the resident determination as set forth above may be applied to certain factual situations. If the fits within one of the following exceptions, he may be granted resident classification until he obtains such classification.
Exceptions may be granted for:
a. A minor who remains in California after his parents, who had previously resided within California, moved from the state prior to the resident determination date, and the minor continues full-time attendance
b. A student who is a minor and who has been selfsupporting and in California for one year preceding the day
tion.
c. A student who had not been an adult for more than one year prior to the resident determination date may add is pre-18-years-or-age residence to his post-18-year
A child or a spouse of a member of the armed force tationed in California will be granted reside orces not assigned to California for purposes
education may be entitled to resident classification for a period of one year. During that year, the person must nonresident tuition for any subsequent enrollment.
e. Adult aliens lawfully admitted for permanent residence and present for one year will be given resident classifiand present for one year wiil be given residentional presence to satisfy the one-year requirement.
f. A student holding a valid credential authorizing service in a public school and employed in a certificated position by a commun
resident classification.
g. A student who is an apprentice within the meaning o classification.
h. A student who is a full-time employee of a California institution of public higher education or whose paren or spouse is a full-time employee may be granted resident clas
enrollment.
i. A student who lives with a parent who performs agricultural labor in California and other states at leas two months per year in each of the two
the parent must live within the district.
A student who earns his livelihood by performing A student who earns his livelinood by performing
agricultural labor and meets the criteria required above for the parent.

## study List Limitations

A regular program is 15 to 18 units, excluding an activity course in physical education. The maximum load for any
student is 18 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 during a semester may not exceed the above limits.

## hanges in class schedules

It is expected that a registration schedule shall 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, a student may add classes within a designated perio at the beginning of each semester for the following reasons:

1. Unable to rectify an error in his original program due to circumstances beyond his control
2. Asked to replace a class for which his background is not appropriate with a
3. Change must be made because of a class cancellation Change must be made because
Changes will be made by obtaining an Add Card and approval of the instructor and then filing the change with the Registrar's Office.
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.

A grade point average of $2.0(\mathrm{C})$ or higher must be earne

1. GRADES

A Superior
B Better Than Average
C Average
D Passing
F Failing
I Incomplete

UNFINISHED WORK, OTHERWISE PASSING indicating that (because of medical or other suffipaper, final examination, or experiment is missing. An Incomplete (1) grade, which is not made up by the shall remain as an Incomplete (I) grade on the student's transcript rather than being converted to an $F$ grade. The Incomplete (1) will not develop units nor honor points for the purpose of computing grade point average or calculating total units.
2. CREDIT GRADE

Certain courses designated by the appropriate divisions Certain courses designated by the appropriate divisions intentions at any time during the semester.
a. Cr will reflect a letter grade of C or higher.
b. NC will reflect incompletion of a credit class.
c. Cr grades are permissible except in the student's major field at Imperial Valley College.
d. Students applying for Cr must adhere to the same class standards or reg
receiving a regular grade.
e. A maximum of 16 units, with a limit of one class per
f. The Cr grade will satisfy completion of prerequisite for sequence class.
3. WITHDRAWAL GRADES

W-Withdrawal
W/F-Withdrawal failing
A student may withdraw from any course or from the college during the semester by obtaining the signature of the instructor on a drop card and filing the drop card in the Registrar's Office.

Any instructor may withdraw a student during the first Any instructor may withdraw a student during the first
fifteen weeks for excessive absences or for disciplinary fifteen w
reasons.

Grades at the time of withdrawal under either circumassigned in accordan with the following chedule.

$$
\begin{array}{lr}
\text { Weeks of Semester } & \text { Grade } \\
1 \text { through } 15 \\
16 \text { through } 18 & \mathrm{~W} \text { or WF }
\end{array}
$$

All withdrawals are official after being processed by the Registrar's Office. If the withdrawal is signed by both the
student and instructor it is an official withdrawal. It it is student and instructor, it is an official withdrawal. If it is unofficial withdrawal. The " $W$ " will normally be given to the student during the 1st through the 15th week of the student after the 15th week at the instructor's option.
4. REPEATED CLASSES

Procedures for repeated classes:
a. A student wishing to repeat a class, in which he has received a grade of $D$ or $F$, must obtain a reques mapply his name, the class being repeated Registrar's Office by the 12 th week of the semester for which he wishes to receive credit for a repeated
b. From the forms submitted by the student, the Registrar's Office will record an R by the letter ubmit a form, the grade and d anits in the does not lass will be used in computing total units and grade point average.
5. GRADE POINTS

Grade points, per semester unit, are asssigned as follows:
A-4 grade points per unit
$\mathrm{B}-3$ grade points per unit
$\mathrm{B}-3$
$\mathrm{C}-2$ grade points per unit
$\mathrm{D}-1$
grade
$\mathrm{D}-1$ grade point per unit
$\mathrm{F}-0$ grade
$\mathrm{Cr}-0$
grade points per unit;
units not charged against the studen
NC- -0 grade points per unit;
units not charged against the student
-0 0 grade points per unit;
$W-0$ grits not charged against the studen
W units not charged against the student
F-0 grade charged aga
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

CREDIT BY EXAMINATION
A student may petition to take an examination in lieu of the semester. A maximum of 25 units may be acquired in his fashion. No more than 15 units per semester will be athorized. The fee will be $\$ 20.00$ per unit plus $\$ 10.00$ for in Students wishing to take advantage of this opportunity Registrar's Office.

## 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.
a. Presentation of the DD 214 by petition may allow the veturan 6 units of credit (Cr) ( 4 units for phys
education and 2 units for health education).
b. Total number of units of credit is not to exceed 16 may count as elective credit only.
8. CREDIT FOR UPPER DIVISION COURSE WORK Upper division credit may not be applied toward an received for an upper division course which is also offered as a lower division course
9. ACADEMIC RENEWAL

If a student returns to Imperial Valley College after five years of absence, he may petition for the exclusion of work is to be excluded the entire semester's work mus be excluded with respect to grades, units and course requirements. Once a semester has been excluded, it may not be reinstated.

## sEmESTER GRADE REPORTS

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

## STUDENT CONDUC

It is assumed that the entry of a student into Imperial Valley College constitutes the student's acceptance of th Standards of Student Conduct and the regulations published by the college in accord with the Standards. The Advisors and Student Leaders.

## ACADEMIC PROBATION

Academic Probation is a system of monitoring student progress and prescribing special assistance in order to
dentify students who are experiencing difficulty in makin satisfactory progress toward an appropriate edureationa objective; and provide special assistance to students in accomplish these goals.
Students who are placed on probation will be identified a

There are two types of Academic Probation:

## Scholastic Probation

Any student who completes more than six units in any semester and earns less than a 2.00 grade point average will be placed on Scholastic Probation. A student will remain on Scholastic Probation until the student's grade point average is 2.00 or better.

## Lack-ot-Progress Probation

At the end of each semester, any student who has accumulated a recorded enrollment in 15 or more units, may not receive more than 50 percent of those units in no academic grades (W, WF. NC) and wirbe placed on Lack-o or more of the student's recorded enrollment.

## PROVISIONAL STATUS

A newly enrolled freshman who is enrolled in more than six nits and who falls into one of the categories listed below tall be admitted on provisional status:

1. His grade point average in the last three years of high with zero for an F grade) excluding only physical education and military science.

$$
\begin{aligned}
& A=4.0 \\
& B=3.0 \\
& C=2.0 \\
& D=1.0 \\
& F=0
\end{aligned}
$$

He is not a high school graduate
A student on provisional status shall develop with his He is required to hold periodic conferences with his counselor and his program may be regulated by his ounselor according to his aptitudes and achievement.
Provisional status is removed when the student has successfully completed 12 units of work.

## hearing process

Formerly and currently enrolled students are entitled to seek and receive responses to questions related to thei educational programs in accordance with Imp
Community College District educational philosophy. Currently, there are four formalized structures which may provide hearing procedures for students and campus They are:

Standards of Student Conduct
Access to Student Records and Challenge Procedure Grievance Procedure Policy in Matters of NonDiscrimination (Sex, Race, National Origin, Color)
Admissions, Registration, and Petitions Committee Procedure The President of the College has designated the Vice
President for Student Services as the coordinator of the President for student Services as the coordinator of the
petition and hearing process as related to the problems o students and campus organizations seeking answers related to their educational programs. Problems related to studen
grades issued by instructional staff should be referred to the grades issued by instructional staff sho
Vice President for Academic Services

Students and campus organizations are requested to provided) and submit it directly to the appropriate committee chairperson listed above. However, if a student does not know the proper procedure or committee, he may, President for Student Services who will assist and direct the student to the proper hearing process. The Vice President for Student Services will respond in writing not later than five (5) school days after receiving the problem in writing from request informational conferences among parties designated to review the problem and its possible resolution, prior to assignment of a hearing process. (Matters related to students' grades will not be included in this process.)

## 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 in all classes is expected of all 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 will not be counted as absences.

## VOLUNTARY WITHDRAWAL

A student who is required to withdraw from college because of extenuating circumstances must contact the grades."

## ACADEMIC DISMISSAL

Academic Dismissal is a system of forced interruption in attendance at Imperial Valley College in order to conserve institutional resources in those instances where a student is
either unwilling or unable to establish appropriate educational objectives or maintain satisfactory progress in achieving them within the limit or available resources of the college.
Students who are subject to Academic Dismissal will be dentified as early as possible at the termination of the spring
There are two types of Academic Dismissal:

## Scholastic Dismissal

At the end of each spring semester any student who has previously been placed on Scholastic Probation and has 75 or semester.

## Leck-of-Progress Dismissa

At the end of each spring semester, any student who ha previously been placed on Lack-of-Progress Probation, and
has accumulated a recorded enrollment of 30 or more units, may not receive more than 50 percent of those units in non academic grades (W, WF, NC). The student will not be allowed to enroll during the next semester
A student who has been placed on Scholastic Dismissal or attending Imperial Valley Colle be disqualified from by special approval upon petition to the Admission Registration and Petitions Committee).

## Physical education

District policy requires that each student who is registered or more than 8 units shall be required to register tor and pass, a physical education activity class during each semester for four semesters. Exemptions from this
requirement may be granted for the following reasons only:
(1) Physical disability

Age, twenty-one or ove
(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 (PE 1, HE 3). See counselor

The student must provide himself with a uniform as
prescribed by the physical education department.
Those applying for exemption for reasons other than of their registration.
A student who is dropped from physical education for non attendance or for failure to perform in a responsible way will required to withdraw from all classes in which he has been is study list to or at his option, the student may reduce his study list to not more than 8 units. At the time o depending upon progress to date in classes affected.
A student who is required to be enrolled in an activity class and who seeks to be excused for medical reasons will not be excused unless he presents to the Registrar at the time of the signature of his physician of study list) a statement over the signature of his physician or the county health officer 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 regulation in shall have the same force as a printed 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 be graduated under the catalog in effect at
the time of his initial enrollment contimuous in in initial enrollment provided he maintains a (excluding summer sessions) of not less than six work for which passing grades are earned.

## GRADUATION REQUIREMENTS

## ASSOCIATE DEGREES

Upon the completion of the following requirements, students at Imperial Valley College will be granted the
degree of 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 semester and the 1st week of summer session.
Students may participate in the graduation ceremonyonly once and may receive only one diploma. Additional degrees, however, are posted on the permanent record.
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 DESIGNATED) IN A SPECIFIED FIELD OF STUDY

Students may satisfy the major requirement in the foleach major are listed after the courses of study for
A.S.-Agricultural Business
A.S.-Agricultural Chemical Technology
A.S.-Agriculture Mechanics
A.A.-Anthropology
A.A.-Art
A.S.-Automotive Body Repair and Painting
A.S. - Automotive Technology
A.A.-Banking-Administrative
A.A. - Banking-Administrative Services
A.A.-Banking-Credit Administration
A.-Banking-Secretarial
A.A. - Banking-General Operations
A.A.- Behavioral Science
A.A.- Bilingual-Bicultural Studies
A.S.-Bookkeeping
A.A.A.A.S.-Business Transfer
A.S.-Carpentry
A.A.-Clerical
A. A.S.-Cosmetology
A.A.,A.S.-Data Processing
A.A.,A.S.-Early Childhood Education
A.S. - Engineering
A.S.-Engineering Technology
A.A.-English
A.S.-Fire Science

II. STATE AND INSTITUTIONAL REQUIREMENTS
A. Sixty units plus physical education if required.
B. Grade point average of 2.0 or better for all college
work.
C. Completion of a minimum of forty-five units in resiat Imperial Valley College.
D. Settlement of all financial obligations to the college.
III. SUBJECT AREA REQUIREMENTS
A. American Institutions (Complete any one of the following):

1. Soc Sci 52-Intro. to American Government 2. Hist 17AB-United States History 3. Poly Sci 1-Intro. to Political Science and
Poly Sci 2-American Government \& Politic
2. Hist 17A-United States History and
3. Poly Sci 1-Intro. to Political Science and
4. Hist 178-United States History
5. Hist 8AB-History of the Americas
B. HE 1-Health Education or

HE 3-Health Education (military service) if required
C. Physical Education (if required).
D. Math 51 (if required)
(Ag 50, Auto Tech 50, Math 50, PL 50, Weld 50 may be substituted)
iv. GENERAL EDUCATION

A minimum of 15 units which shall include at least one course in each of the first.
a. Natural Science

Ag 5 (Also Env Sci 5) Man and His Environment Ag 14 Entomology
Anat 10 Human Anatomy and Physiology
Astron 21 Elementary Astronomy
Bio 3 Principles of Biological Science
Bio 21 General Microbiology Bot 1A General Botany
Chem 1A General Inorganic Chemistry
Chem 2A Introduction to Chemistry
Chem 2 A Introduction to Chem
Geog 1 Physical Geography
Geol 1 A Physical Geology
Geol 10 (Also Zool 10) Life of the Past: An Introduc-
Geol tion to Paleontology
Geol 11 General Geology: An Introduction to
Geol 12 Introduction to Historical Geology
Geol 14 General Paleontology. Dinosaurs,
Sabretooths and Man
Nat Sci 51 Survey of the Earth Sciences
Phys Sci 25 Introduction to Physical Science Phys 2A General Physics
Phys 4A Principles of Physics
Physio 1 Human Physiology
Zool 1A General Zoology
b. Social Science

Anthro 1 Physical Anthropology
Anthro 2 Cultural Anthropology
Anthro 2 Cultural Anthropology Anthro 3A Intro. to Archaeological Site Surveying Anthro 4 California Indians
Anthro 5 Archaeology: Theory, Prehistory and Laboratory
Anthro 6 Indians of North America
Anthro 7 Classic Civilizations of Meso-America Anthro 7 Classic Civilizations of Meso-America
Anthro 8 Indians of the Southwest Bus 2 introduction to Business ECE 28 (Also Psych 28) Administration and Supervision in Early Childhood Education
Econ 1 Principles of Economics Econ 1 Principles of Economics
Econ 2 Principles of Economics Geog 2 Cultural Geography
Geog 3 Economic Geography
Hist 10 History of Modern Russi
Hist 30 Mexico and the American Southwest

Hist 40 (Also Span 40) Civilization of Spain and Portugal
Hist 41 (Also Span 41) Civilization of Spanish America and Brazil Poly Sci 3 Comparative Politics

## Psych 1A General Psychology

 Psych 1 B Advanced General Psychology Psych 2 Introduction to Physiological PsychologyPsych 3 (Also TA 3) Psycyology of Personal and sych 3 (Also TA 3) Psychology of Personal and
Psych 5 Psychology of Effective Behavior Psych 9 (Also HR 9) Interviewing and Counseling Psych 11 AB (Also HR 11 AB ) Practicum Psych 14 Abnormal Psychology
Psych 17 (Also Sociol 17) Social Psychology Psych 20 (Also ECE 20) Developmental Psychology of Children
Psych 21 (Also ECE 21) Early Childhood Socialization: Children, Family and Community
Psych 22 (Also ECE 22) Principles of Child Development and Observation Psych 23AB (Also ECE 23AB) Early Childhood Psych 24 (Also ECE 24) Creative Learning Experiences for Pre-school Children Experiences for Pre-school Children
Psych 27 (Also ECE 27/PL 1) Understanding Exceptional Students
Psych 30 Psychology of Adolescence
Psych 46 (Also LE 46) The Mentally III, Alcoholic Drug Addict and the Law Sociol 1 Principles of Sociolog ociol 2 Contemporary Social Problems
Marriage and the Family
Humanities (Language, Literature, Philosophy Fine Arts)
Art 3A History and Appreciation of Art
Art 30A introduction to Art
Drm Art 5A History of World Drama
Drm Art 5B History of World
Drm Art 23 Modern Drama
Eng 18 Introduction to Literature
Eng 2 introduction to English Linguistics
Eng 3 (Also Hum/MPP 3) Introduction to Film History and Criticism
Eng 4ABCD
Criticism
Eng 15 American Literature
Eng 16A World Literature
Eng 16B World Literature
Eng 17A Survey of English Literature
Eng 17B Survey of English Literature Eng 20AF Studies in Literature
Eng 30A (Also Span 28A) The Mexican American
in Literature
Eng 30 B (Also Span 28B) The Mexican American Eng 30 B (Also
Fr 1 Elementary French
Fr 1A Elementary Frenc
Fr 1 A Elementary French
Fr 2A Elementary French
Fr 2 Z Elementary French
Fr 4 Intermediate French
Fr 10 Intermediate Conversational French
Fr 11 Intermediate Conversational French
*Fr 20 A French Drama-Reading and Performance Reading and Performance Civilization and Culture
Fr 41 (Also Hum 41) ture
Civilization and Culture Beyction to Frenc Fr 51 French Culture, Cuisine and Conversatio Ger 1 Elementary German
Ger 2 Elementary German
Ger 10 Conversational German
Hist 4A History of Western Civilization Hist 4B History of Western Civilization Hum 1A Man and the Arts
Hum 25 The Humanities
Hum 26 The Humanities
Hum 40 (Also Fr 40 ) Introduction to French Humizanion and culture 41) Introduction to French

Ital 1A Eleme and Culture Beyond France

* Ital 1 B Elementary Italian

Jrn 3 Mass Communication

- Mus 17AF Chamber Singer
* Mus 18AF Chamber Orchestra

Mus 20A History and Literature of Music
Mus 20B History and Literature of Music
** Mus 25AF Stage Band
Mus 30 Intro. to Music Literature and Listening
Mus 31 Twentieth-Century Music
Phil 1 B Introduction to Philosophy
Phil 11 Ethics
Phil 25 Religions of the Modern World
Span 1 Elementary Spanish
Span 1A Elementary Spanish

- Span 1B Elementary Spanish
.- Span 2 Elementary Spanish
** Span 2A Elementary Spanish
Span 2 B Elementary Spanish
Span 3 Intermediate Spanish
Span 4 Interne
- Span 4 Intermediate Spanish Span Beginning Conversational Spanish and

Culture
Span 5B Beginning Conversational Spanish and Culture
Span 10 Intermediate Conversational Spanish Span 11 Advanced Conversational Spanish Span 20A Beginning Bilingual Spanish Span 21 Intermediate Bilingual Spanish Span 22 Advanced Bilingual Spanish Span 23 Bilingual Oral Spanish Span 25 Introduction to Spanish Literature Literature for Bilinguals Span 28A (Also Eng 30) The Mexican American Span 28B (Also Eng 30B) The Mexican American in Literature
Span 40 (Also Hist 40) Civilization of Spain and Span 40 (Also Hist 40) Civilization of Spain and
Portugal Portugal
Span 41 (Also Hist 41) Civilization of Spanish
America and Brazil
Span 42 Intro. to Mexican American Studies

- Span 53 (Also Mus 55) Beginning Guitar and
*-Span 54A Beginning Conversational Spanish for
- Careers $\begin{aligned} & \text { Span } 54 \mathrm{~B} \text { Beginning Conversational Spanish for }\end{aligned}$ Careers
d. Learning Skills

1. Eng 1A Reading and Composition

Eng B Basic English Composition Eng 51 The Communication Process
and
One of the following
Ag 20 Animal Science
Ag
Ag
28 (Also HM 35) Heavy Equipment Operation and Maintenance
At 18A Watercolor Painting
Art 18A Watercolor Painting
Art 20A Drawing
Art 22A Design
Art 23 A Ceramics
Art 24 AB Ceramic Sculpture
Art 26 Design in Cratts
Art 27 Creative Handw
Art 28 Treative Handweaving
Art 29A Jewelry
Art 29B Jewelry
Art 298 Jewely
Art 31 Crafts
$\because$ Art 40 Exploration of Acrylic Painting Techniques
Auto Body 70 Auto Body Repairing \& Painting Auto Tech 51 Engine Technology
Bus 9 (Also Math 17) Math for Business Analysis
Bus 10A Practical Bookkeeping

- Bus 11 (Also Soc Sci 69) Tax
- Bus 20 Elementary Typewriting

Bus 31 Elementary Shorthand
Bus 50 Introduction to Data Processing Bus 50 Introduction to Data Proct Bus 65 Retail Sales Checking
Bus 79 (Also Jrn 8) Public Relations Techniques
Drm Art 20AB Fundamentals of Acting Electricity 1 Basic Electricity
Engr 18A Plane Surveying Engr 18A Plane Surveying
Engr 21 Technical Drawing
Engr 72A Surveying for Engineering Technology
Eng AB Basic
Eng AB Basic English Composition
Eng 7 Technical and Report Writing
Eng 8 Advanced Composition
Eng $9 A B$ Creative Writing
Eng 12 Speed Reading
Eng 42 Advanced English as a Second
Language
Eng 43 A Advanced Oral English for Bilinguals
Eng 47 Vocabulary Building for Bilinguals Eng 47 Vocabulary Building for Bilinguals
Eng 49 Reading Development for Bilinguals
Eng 50A Reading Development
Eng 50B Reading Development
Eng 52AB Vocabulary Building

- Eng 55AB Spelling

Eng 56A Writing Fundamentals
Eng 56B Writing Fundamentals

- Eng 57 Library Resources

HE 2 First Aid
HR 8 (Also Psych 8) Personal and Career
Development

Jrn 1 Introduction to Journalism LE 23 (Also PE 44) Defensive Tactics LE 39 Arrest and Firearms LT 51 Introduction to Library Math A Intermediate Algebra
Math C Plane Trigonometry
Math C Plane Trigonomerry
Math 2 Advanced Algebra and Trigonometry Math 3 A Analytic Geometry and Calculus Math 10 Math for Elementary School Teachers Math 12 (Also Psych 12) Elementary Statistic Math 17 (A)
Analysis
Math 18 Introduction to Mathematics - Math 52 The Metric System

MPP 10 (Also Eng 10) introduction to Motion Mus 7 Introduction to Music Foundations - Mus 10A Beginning Group Piano

- Mus 10B Beginning Group Piano II
- Mus 11 A Intermediate Group Piano I
- Mus 12 Beginning Class Guitar
- Mus 13 Intermediate Class Guita
- Mus 15A Beginning Class Voice
- Mus 21AD Brass, Woodwind and Percussion Methods
Mus 32AD Applied Music
Phil 10 Logic. 5 Introduction to Photography PL 10 Beginning Communication with the Deaf PL 20 Literary Braille
PL 33 introduction to Audiology
PL 40 Introduction to Physical Therapy Psych 12 (Also Math 12) Elementary Statistics Soc Sci 69 (Also Bus 11) Personal Finance Sp 1 Oral Communication
Sp 30 Voice and Articulereaders Theatre Sp 30 Voice and Articulation Development Weld 30 Arc Welding
Weld 32 Oxy -Acetylene Welding Weld 34 Inert Gas Shielded Arc Weld 36A Advanced Welding
WE Occ 80 Personal Efficiency
WE Occ 81 Motivation
WE Occ 82 Labor and the Economy
WE Occ 83 Laws Affecting Employees
$\cdot 1$ Unit Courses *2 Unit Courses

CREDIT FOR CORRESPONDENCE AND EXTENSION COURSES
A student may petition to have a maximum of six units of redit counted toward graduation for correspondence or extension courses which meet the following standards:
(1) Courses must have been taken from a recognized accredited college or univers
(2) Courses must be designated as recommended for
2) Courses must be divisision credit by the college or university.

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

## TRANSFER REQUIREMENTS

wo principal kinds of requirements must be met in order a attain full junior standing at a state college, the University California, or other institutions maintaining equivalent tandards 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 TRANSER TO SUCH AN INSTITUTION SHOULD CONSULT THE CATALOG OF THE INSTITUTION REGARDING SPECIFIC REQUIREthese requirements will be met. Additional information is available in the Counseling Center.
A student planning to transfer to one of the campuses of he California State College State University system can, a certified by Imperial Valley College. In order to meet this certification, a student must complete forty (40) units of selected general education in one of five areas. natural science cation. With the certification of general education completed by Imperial Valley College, a student can transfer to a Caliornia State University assured that no further general eduFor further information regarding the necessary courses required for general education certification, contact the Counseling Center.

## Traneter Credt

In state colleges, and at the University of California, a lege 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 also allow credit for 70 units of lower division work com-

## pleted 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 ssur. each studen he best in educaly ment opportunities upon graduation.
In developing a major program, each student should plan on completing graduation requirements for the Associate in Arts or Associate in Science Degree. It is recommended tha students should plan a broad educational background in It is most
during their first semester in preparing pith a counselo mine the appropriate sequence of courses. Further, it shoul
be noted that the final responsibility for the selection of
proper courses rests with the student CERTIFICATE

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:
.
2. Achieve at least a C grade average ( 2.0 GPA ) for each taken at Imperial Valley College.
3. File a certificate petition with the Registrar not later than the end of the sixth week of the fall semseter, the
fourth week of the spring semester and the first week fourth week of the spring
of the summer session.
Certificates are offered in the following areas:
Field Archaeology
Automotive Body Repair and Painting
Banking
Secretary Certificate-Bank Service
General Certificate-Bank Service Administrative Certificate in Bank Operations
Business
General Clerical: (Receptionist, File Clerk,
Clerk Typist
ecretary/Stenographer Carpentry
Early Childhood Education
ectronics
Basic
Basic
Intermediate
Emergency Medical Technician
Fire Science
Gerontology
Governmental Managemen
Graphic Arts-Multi Me
Printing
Health Aide
Community Health Aid
Developmental Disability/Mental
Hospital Nursing Assistant Mental Health Aide
Heavy Machinery
Community Mental Health Worker Counseling, School and Social Services Personnel, Employment Counseling and Supervision
Enforcement
Law Enforcemen
Basic Library Technician
Marketing-Sales Technology
Medical Office Assisting
Real Estate
Recreation
Rehabilitation Technician for the Physically Limited Teacher Aide
Vocational Nursing
Welding
Occupational Work Experience

## COURSES OF INSTRUCTION

In the following list of courses, the credit value of each course in semester units inentheses after the course number.
To make it possible for a greater number of courses to be
offered to the students of Imperial Valley, many courses in offered to the students of Imperial Valley, many courses in specialized fields are offered on alternate years only. The student should take thi
long-range program.
Course numbers followed by an $A B$ sequence indicate that the course may be taken more than once, covering the same numbers which have an $A$ and $B$ sequence with different course description
The prerequisites for any course may be waived by the The prerequisites for any course may
instructor and the Dean of Instruction.

Unless specifically exempted by statute, every course, course section or class, the average daily attendance of which is to be reportial Community College District, shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets such prerequisites as may be 5 of the California Administrative Code commencing with Section 51820 (Board of Trustees Resolution No. 5682).

## SUMMER SESSION

(When Offered)

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

AG 30 (3)
AGRICULTURAL MECHANICS 2 Hrs. Lec. 2 Hrs. Lab. Selection and evaluation of production equipment. Study of specifications,
plans and construction of general pagricultural equipment. Pipe work 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 32 (3)
RRIGATION AND DRAINAGE
2 Hrs. Lec. 2 Hrs. Lab.
Fundamental principles and practices of irrigation. Soil-moisture relationships, water measurement, methods of irrigation, crop requirements, farm
irrigation structures. Pumps and pumping and problems of the irrigation farmer. Land preparation and irrigation methods, problems of irrigation, crop including investigation of drainage problems. Types of drainage systems and layout of farm drains, and drainage
requirements for land reclamation and requirements for land reclamation and
irrigated agriculture. their relation to feeding of farm animals; ration balancing. Identification and classification of reeds, methods o preparing of livestock. Digestion and utilization of feeds; feeding standards; economy in feeding; vit
minerals and feed sources. AG 22 (3)

## AG 22 (3) LIVESTOCK SELECTION

2 Hrs. Lec. 2 Hrs. Lab.
Selection of beef cattle, sheep, swine and horses accord form in relation to its various functions. Studies of recognized type standards in livestock with a critica evaluation of the criteria used in establishing these standards. Correla-
tion of the type of the live animal with the quality of the carcass.

## AG 23 (3)

ANIMAL DISEASES
Hrs. Lec. of animal diseases.
AG 24 (3)
HORSE HUSBANDRY

> RORSE HUSE 3 Hrs. Lec.

Status of the horse industry; types and breeds; selection, care and management and economics of the light horse, United States
AG 25 (3)
AGRICULTURAL BUSINESS
MANAGEME.
3 Hrs.
Cranges. occurring in agriculture, careers in commercial agricultural busi-
gencies, development and growth farm-related industries, kinds of agrict stics of commercial agricultural indus tries.
AG 26 (3)

## AGRICULTURAL BUSINESS ORGANIZATION AND MANAGEMEN

 3 Hrs. Lec.Study of farm technological advanc
marketing. consumer demand and oth such factors as determinants of growt types and forms of agricultural busines, organization. Farm and farm relate of primary functions, services a problems including investments, mort gage and working capital requirements ( credit and collections, business $w$
banks, failures and reorganization. phasis on California farm-related ind tries.

## AG 27 (3)

AGRICULTURAL SALES AND SERVIC
MANAGEMENT
3 Hrs. Lec.
3 Hrs. Lec.
Supervision of people who se
agricultural products and service
agricultural products and servic Selecting, training, directing
evaluating
personnel. Methods payment, use of advertising, promotio 55 incentives and service.

## $A G 28$ (5)

MAINTENANCE
3 Hrs. Lec. 6 Hrs. Lab.
(Same as H.M. 35)

## AG 33A (5)

FARM POWER
3 Hrs. Lec. $6 \mathrm{Hrs}$. Lab.
For the student with little or no
automotive background Design automotive background. Design, con-
struction and mechanical function of utomobile engines including lubricatg. cooling, fuel and electrical systems; luthes; and an understanding of the asic sciences relevant to such topics as
internal combustion and energy onversion. $\$ 5.00$ material fee payable during first week of instruction
AG 33B (5)

## 3 Hrs. Lec. 6 Hrs. Lab

3 Hrs. Lec. 6 Hrs. Lab.
Prerequisie: AG 33 A (Same as Auto
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
5.00 material fee payable during first
5.00 material fee payable during first
week of instruction. (Same as Auto Tech 55)

AG 35 (4)
FLUID POWER
3 Hrs. Lec. 3 Hrs. Lab
A study of the principles and laws governing fluids. The design and components, seals, fluid types, circuits and symbols. Latest developments in

## AG 36 (3)

AGRICULTURAL CONSTRUCTION 2 Hrs. Lec. 2 Hrs. Lab.
A study of the materials and processe A study of the materials and processes
most suited to farm situations. Practica concrete design, farm layout and fabri-

AG 37
SMALL GASOLINE ENGINES
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 (Same as Auto Tech 59)
AG 38 (3)
ELECTRICITY ON THE FARM 2 Hrs. Lec. 2 Hrs. Lab.
Fundamentals of electric wiring; circui layout and problems; motor and branch
circuit protection; safe use of electricity: circuit protection; safe use of electricity
wiring the farmstead; and motor maintenance.
AG $40(3)$
SOILS
SOILS
3 Hrs. Lec
Physic
Physical, chemical and biological properties of soils as related to agriculture
Principles of soil-plant inter-relations development of the soil as a natura body, soil moisture, effect of management practices on soil properties; composition and use of fertilizers.
AG 41 (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 fertili

## AG 42 (4) PLANT SCI

PLANT SCIENCE AND FORAGE
3 Hrs. Lec. 3 Hrs. Lab.
Principles and practices of crop im provement, propagation, production processing, storage, and marketing,
Production, harvest and utilization principal California forage crops. Field laboratory work required.
AG 43 (4)
FIELD AND CEREAL CROPS
3 Hrs. Lec. 3 Hrs. Lab.
Principles. and practices of field and ce-
real crops production real crops production and soil manage-
ment, including study of distribution, adaptation and utilization of the major field
and cereal crops. Field laboratory work
AG 44A (2)
Le gardening-
COOL WEATHER
Organic and inorganic production in vegetable gardening. Cultural practices,
harvesting, grading and processing harvesting, grading and processing,
marketing, disease and pest control of California vegetable crops.
AG 44B (2)
VEGETABLE GARDENING-
WARM WEATHER
6 Hrs. Lab. vegetable gardening. Cultural practices, harvesting, grading and processing, marketing, disease and pest control of California veg

## AG 45 (3)

3 Hrs. Lec.
Principles involved in seasonal truck crop production, including the scope,
value, harvesting, packaging and marketing of the major truck crops grown in California.
AG 46 (3)
ORNAMENTAL PLANT
ORNAMENTAL PLANT 3 Hrs. Lec.
Identificatio
dentification, growth habits, culture and
ornamental use groundcovers, annuals, perennials, small shrubs adapted to the climate of he southern valleys of California.

## AG 47 (3)

NURSERY PRACTICES
A general course in ornamental horticulture with emphasis on nursery operation. includes nursery structures and layout, seeding, transplanting, potting, balling, diseases, and abnormalities. Propagating and planting mediums, their preparation and use. The use and maintenance

## AG 48 (3)

Broadleaf shrubs and vines used in Caliornia. Identification, habits of growth, cultural requirements and landscape use. AG 49 (3)
WEDS

## WEEDS AND WEED CONTROL

3 Hrs. Lec.
Common and noxious weeds of California, their identification, life history, and
control. Chemicals and equipment used or weed control on cultivated land, in wasteland. Poisonous weeds, their effects and prevention.

## AG 50 (3) SHOP MATHEMATICS

3 Hrs. Lec.
(Same as Auto Tech 50, Math 50, P.L. 50 ,
Weld 50)

## AG 64AB (1)

1 Hr Lec. 1 Hr . Lab
The Len. 1 Hr. Lab. equitation, English and Western, the and atomy of the horse and safety are emphasized. (Students may provide their own horse and trail it to instruction areas if carried on college accident policy or
show evidence of coverage under family policy. A lab fee will be charged for those students who cannot provide their own horse.) (Same as P.E. 21AB)
AG 65 (3)
CONTROL OF INSECTS AND OTHER PESTS
3 Hrs. Lec.
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.
AG 66 (1)
EQUITATION
1 Hr . Lec. 1 Hr . Lab
Prerequisites: $A G 64 A B$ or consent of instructor. Intermediate horsemanship
under saddle. Grooming, saddling bridling, mounting, seat and hands. Study of types of horse gear and equipment. Safety precautions are emphasized. This course fulfills one semester of the physi-
cal education requirement. Students may provide their own horse and trail it to instruction areas provided that the student has evidence of college or per-
sonal insurance coverage. (Same as P.E. sonal
$21 \mathrm{C})$
AG 69ABCD (2-2-2-2
10 Hrs. Lab.
Prerequisites: Students must provide all their own equipment, supplies, insurCourse designed to give students the chance to participate in the sport of rodeo on the college level. (Same as P.E. 39ABCD)
AG 75 (3)
INTRODUCTION TO INDUSTRIAL/
AUTOMOTIVE SKILLS
3 Hrs. Lec.
(Same as Auto Tech 75, Weld 75)


## ANAT $8^{8}$ (4)

2 Hrs. Lec. 6 Hrs. Lab
2 rrs. Lec. 6 Hrs. Lab.
Prerequisite: High school biology with a
grade of C or better or Zool 1 A or Bio 3 errelationships.

## ANAT 10 (5)

## HNAT 10 (5)

Hrs. Lec. 6 Hrs. Lab.
Prerequisites: One year of high schoo hemistry and biology or one semeste structure and function of the human or ganism. Emphasis is on the circulatory respiratory, excretory, nervous, repro
ductive, and digestive systems.

ANTHROPOLOGY
ANTHRO 1 (3)
HYSIICAL ANTHROPOLOG
Hrs. Lec. evel ability is recommended for success this course. An introduction to the man. Emphasizes the processses of evo ution, the relationship of man and the animals, fossil man, and the origin and meaning of race.
ANTHRO 2 (3)
ULTURAL ANTHROPOLOGY Hrs. Lec.
rerequisite
vel ability is recomm grade reading in this course. An introduction to th nature of culture, especially as seen in primitive society. Includes such topics ture, technology, social organization anguage, religion, and personality. May aken before Anthro 1.

ANTHRO 3A (3)
NTRODUCTION TO
ARCHAEOLOGICAL SITE
2 Hrs. Lec. 4 Hrs. Lab. introduction to archaeological site sur eying: historical development of ar antury; archaeological trends; methods of site surveying; types of sites; field re onnaisance; site reports and records preparing field material for laboratory are and analysis; trails, artifacts, an feature
field.
ANTHRO 3B (3)
ARCHAEOLOGICAL EXCAVATIONS Hrs. Lec. 4 Hrs. Lab. troduction to archaeological excava ransit, rod and alidade; archaeologith excavation; selecting sites: testing and renching; stratigraphy; keeping recrds; interpreting data; preparing labo

## ANTHRO 7 (3)

ISTORIC MESOATIONS OF 3 Hrs. Lec.
A study of the classic Aztecs, Mayas and Incas from their origins to their highly eveloped states and empires, and the theories that Hyerdahl and von Daniken pose will be analyzed in factual light.

ANTHRO 8 (3)
NDIANS OF THE SOUTHWEST 3 Hrs. Lec.
A study of natural and human ecology of the Southwest as applied to abor-
iginal life: Early Man in the Southwest,
especially the Cochise Culture; Meso
especially the Cochise Culture; Meso-
American influences; foundations
development of the Anasazi, Sinagua
Hohoka and Mogollon cultures. Inter-
cultural relations, trade, ceramics,
pueblo life, religion, art and agriculture.
Cultural extensions into California. Rise
of modern societies, as the Zuni, Hopi, modern societies, as the Zuni, Hopi,
Navajo and Apache. Contemporary life, ee instructor. Students will design field crew with which to carry it out, con Navajo and Apache. Contemporary life. duct record and literature searches, mi
cro-map the area, process materials ani
data in the laboratory, and prepare : echnical, but readable report on th findings. Laboratory studies will includi curation, photography and C 14 pro
cessing. Students must plan for $1-3$ ad ditional hours by arrangement.

## ANTHRO ${ }^{4}{ }^{(3)}$

## CALIFORN

A study of California Indians and to relationships of these tribal peoples hife styles of specificic Indian tribal socie ties: Indian art, music, stories, religions ties; Indian art, music, stories, religions OF ART
institutions, structures, artifacts, recen 3 Hrs. Lec. Indian history.
ANTHRO 5 (3)
ARCHAEOLOGY: THEORY,
PREHISTORY AND LABORATORY

## 3 Hrs. Lec.

Prerequisites: Anthro 1, 2, 3A or 3B pr interested in archaeology to the the development and application of th branch of science. This course will als cover, in outline form, the prehistory student to laboratory and recordin

## ANTHRO 6 (3)

ANTHRO 6 (3) 3 Hrs. Lec.
Early migrations to the Now Wrequisite: Art 18A. Continuation of Early migrations to the New Worling confidence and fluency in the med Amerindian cultures in Alaska, Canadijum. Students are encouraged to United States. Mexico and Centid apand the range of the experience modern Indian movement today. media.


ART 3A (3)
HISTORY AND APPRECIATION OF ART
3 Hrs. Lec
3 Hrs. Lec.
A survey.
A survey of the developments in art in
painting, sculpture
he minor arts from the birth of art to the
Renaissance.
ART 3B (3
HISTORY
nd APPRECIATION
A continuation of Art 3A extending fro
the Renaissance to contemporary times.
May be taken before or concurrently
with Art 3A.
ART 18A (3)
Hrs. Lec 4 Hraintin
Hrs. Lec. 4 Hrs. Lab.

## TING

atercolor painting with emphasis upo Ior, composition wind emphasis upon Exploration of various techniques

## ART 18B (3)

WATERCOLOR PAINTIN
Hrs. Lec. 4 Hrs. Lab.

ART 20A
DRAWING
2 Hrs. Lec. 4 Hrs. Lab.
A basic course in drawing involving color as essential media of expression

## ART 20B (3)

ART 20B (3)
DRAWING
2 Hrs. Lec. 4
2 Hrs. Lec. 4 Hrs. Lab.
Prerequisite: Art 2OA. A continuation of
20A.

## ART 21A (3)

2 Hrs. Lec. 4 Hrs. Lab.
Prerequisites: Art 20A and 20B. A concomposition of the development of employed in drawing various techniques cludes figure drawing, landscape, and still-life. Painting covers styles of paint ing from the Neo-classic to the present
day.

## ART 21B (3)

2 Hrs. Lec. 4 Hrs. Lab. Prerequisite: Art 21A. A continuation of
ART 22A (3)
DESIGN
2 Hrs. Lec. 3 Hrs. Lab.
2 Hrs. Lec. 3 Hrs. Lab.
Fundamentals of design and compos
Fundamentals of design and composi-
tion; theory of color. Includes
tion; theory of color. Includes organiza-
tion and utilization of basic elements through design problems.

## ART 228 (3)

2 Hrs. Lec. 3 Hrs. Lab.
Intermediate studies of elements and dimensional design theory.

## ART $23 A$ (3) CERAMICS

1 Hr Lec. $5 \mathrm{Hrs.L}$ Lab.
An introduction to ceramics; basic methods of forming, decorating, glazing
and firing. ART 23B (3)
ART 23B (3)
CERAMICS
1 Hr. Lec. 5 Hrs. Lab.
Art 23A with Art 23A. A continuation of
Art 23A with emphasis on the potter's

## ART 23 C (3) CERAMICS

1 Hr. Lec. 5 Hrs. Lab.
Prerequisite: Art 238 with a grade of Cor
better. A continuation of Art 23 B with special emphasis on glaze formulating special emphasis on glaze
and decorating techniques.
ART 24AB (3-3)
CERAMIC SCULPTURE
6 Hrs. Lab.
A course in basic ceramic sculpture techni
form.

ART 25A (3)
LIFE DRAWING
6 Hrs. Lab.
Prerequisites: Art 20A and 20B with a
grade of $C$ or grade of $C$ or better. Many types of used to further the student's skill, and development of visualization by drawing
from the human figure. from the human figure
ART 25B (3)
6 Hrs. Lab.
Prerequisite: Art 25A. A continuation of
Art 25A. Art 25B includes exploration of Art 25A. Art 25 B includes exploration of ART 26 (3)

## DESIGN IN

6 Hrs. Lab.
An introduct
An introduction to the study of several
traditional crafts wid creative crafts with an emphasis on tion. Experiences in individual exploraand tie-dye, printmaking fewerry, batik casting and enameling.
ART 27 (3)
CREATIVE HANDWEAVING
An exploratory course structured as introduction to the craft of non-loom wioaving. Its emphasis is on the exploraporary and traditional techniques. Ex periences in the design and structure of wall hangings, tapestries, rugs, body the student with basic weaving niques, fibers and ancient and modern hand looms. Additional study in spin ing and dyeing yarns.
ART 28 (3)
TECHNICAL CERAMICS
Prerequisites: Art 23 C or permission o Pretrequisites: Art 23 C or permission o used in compounding clay bodies and glazes. Specific problems of glaze cal cation. ART 29A (3)
1 Hr. Lec. 5 Hrs. Lab
An introduction to the study of jewelry with emphasis on the practical and tech
nical skills of jewelry nical skills of jewelry fabrication. Exper-
ience in traditional techniques and ience in traditional techniques and
exploration in creative design and contemporary techniques.

## ART 29B (3)

1 Hr. Lec. 5 Hrs. Lab.
Prerequisites: Art 29 A or permission of
the instructor. Second-sent the instructor. Second-semester jewelry
course with emphasis on the course with emphasis on the practical
and technical skills of casting, forging and advanced metal smithing
design and contemporary techniques with experience
ART 30A (2)
INTRODUCTION TO ART
$11 / 2$ Hrs. Lec. $11 / 2 \mathrm{Hrs}$. Lab.
An exploratory course intended for nonart majors; provides a basis for an understanding of the fundamers experience in creative expression.
ART 30B (2) $11 / 2$ Hrs. Lec. $1^{1 / 2}$ Hrs. Lab Prerequisite: Art 30A. A continuation of Art 30A which is an exploratory course
intended for non-art maiors; provides a intended for non-art majors; provides a
basis for an understanding of the fundamental art principles. Offers experience in creative expression.

## ART 31 (3)

2 Hrs. Lec. 3 Hrs. Lab
A basic craft course exploring the use of art materials, media, techniques and methods. Recommended for studends ers or recreation directors.

## ART 33 (1)

2 Hrs. Lab. Theoriles, gechniques
ART 40 (2)
EXPLORATION OF ACRYLIC
PAINTING TECHNIQUES
1 Hr . Lec. 2 Hrs. Lab
An exploratory course which provides opportunities to work with the various
polymer emulsion paints. Basic painting assignments to develop individual application of techniques. Initial exercises in
color usage and structure of the paintcolor usage and structure of the paint-
ing. Suggestions and evaluation of student work will take place on an individual basis

## ART 50 (2)

INTRODUCTION TO LAPIDARY ARTS 1 Hr. Lec. 2 Hrs . Lab.
introduction to techniques of cutting Emphasis on recognition and identification, field collection, mounting, display and valuation of gemstones. Includes equipment saferty sarety and survival, off road vehicle regulations and lapidary related job and career opportunities.

## ART 51 (2)

ADVANCED LAPIDARY ARTS
2 Hrs. Lec. 1 Hr. Lab.
practical application of advanced techniques of cutting and polishing rocks and gemstones. Emphasis on identifica-
tion and testing procedures, specialized gem cutting, and production of custom
mountings. Includes update on state road vehicle regulations and collecting techniques. Also jewelry.
$\qquad$
ASTRON
ASTRON 21 (3)
ELEMENTARY ASTRONOMY 3 Hrs. Lec.
Prerequisite: Completion of the Mathe-
matics 51 requirement matics 51 requirement. An introductory
survey course in the general principles survey course in the general principles
and the fundamentals of astronomy with emphasis on the solar system.

## ASTRON 22 (3)

3 Hrs. Lec.
3Hrs. Lec.
Prerequisite: Astronomy 21, Math $X$, Math $Y$, or the consent of the instructor.
$A$ second semester course in astronomy A second semester course in astronomy
with emphasis on the stars, their properties, and evolution, galaxies cosmology, relativity

AUTOMOTIVE BODY AND PAINT
AUTO BODY 70 (5) AUTO BODY 3 Hrs. Lec. 6 Hrs. Lab.
Prerequisites: Weld 30 and Weld 32, or permission of he instructor. The study of all phases of bedy repair and tools and equipment and procedures for handing equipr
typical
fee.

AUTO BODY 71 (5)
ADVANCED AUTO BODY
ADVANCED AUTO BODY
REPAIRING AND PAR
3 Hrs. Lec. 6 Hrs. Lab.
Prerequisites: Auto Body 70 or permission of instructor. Covers all phases of body repairing and repainting. Use of
modern tools and equipment, step-bystep procedures for handling typical jobs. $\$ 15.00$ materials fee.
AUTO BODY 72 (5)
AUTO AND LIGHTTRUCK MAJOR COLLISION REPAIRING
3 Hrs. Lec. 6 Hrs. Lab.
Prerequisites: Auto Body 71 and/or conPrerequisites: Auto Body 71 and/or con-
currently Weld 30 , Weld 32 or permission of the instructor. Covers al phases of heavy collision repair
including extensive frame and underincluding extensive frame and under-
carriage damage, using modern equipment with step-by-step procedures. $\$ 15.00$ materials fee.

AUTOMOTIVE TECHNOLOGY
Some courses in the field of Automotiv Technology are offered on alternat years only. Students should keep this grams of study with the assistance 0 grams of study
AUTO TECH 50 (3) SHOP MAT.
3 (Same as Ag 50, Math 50, P.L. 50 a Weld 50)

## AUTO TECH 51 (5)

ENGINE TECHNOLOGY
3 Hrs. Lec. 6 Hrs. Lab.
For the student with little or no intern combustion engine background Design, construction and mechanici function of internal combustion engine including lubricating, cooling, fuel ans
electrical systems; and an understand electrical systems, ane and
ing of the basic sciences relevant t
t such topics as internal combustion an
energy conversion. $\$ 5.00$ material te energy conversion. $\$ 5.00$ material fe
payable during first week of instructio payable during first
(Same as Ag 33 A )
AUTO TECH 52 (3) POWER TRAINS
2 Hrs. Lec. 3 Hrs. Lab.
Design, construction and mechani function of clutches, manual transmis sions, overdrives and power transm
ting mechanisms. $\$ 5.00$ material ting mechable during registration.
AUTO TECH 53 (3)
ARAKES AND SUSPENSION 2 Hrs. Lec. 3 Hrs. Lab.
Prerequisite: Auto Tech 51 or two ye
of high school auto mechanics. Study manual and power braking syster wheel alignment, spring suspensio wheel alignment, spring suspensia 2 Hrs. Lec. 2 Hrs. Lab.
tires, tire trueing, wheel balancing, ar The history, design, construction and
whel bearings, Diagnosis and servici mechanical function of the small gasowheel bearings. Diagnosis and semechanical function of the small gasoial fee payable during first week major repair of the electrical and instruction.
AUTO TECH 54 (3)
CARBURETORS, FUEL AND EXHAUST SYSTEMS
2 Hrs. Lec. 3 Hrs.
Advanced study of automotive systems (carburetors, fuel pum
intake manifolds, exhaust system emission controls). Basic diagnosis al service procedures on systems. \$5 AUTO TECH 55 (5) GASOLINE AND DIESE
3 Hrs. Lee. 6 Hrs. Lab.
Prerequisite: Auto Tech 51 or two of high school auto mechanics. Re and advanced study of the internald
bustion engine and service procedul
in the use of automotive machine shop tools and machines for rebuilding the procedure of the diesel fuel systems and governors. $\$ 5.00$ material fee payable
during first week of instruction. (Same during first
as Ag 33 B )

AUTO TECH 56 (3)
DIAGNOSTICS
2 Hrs. Lec. 3 Hrs. Lab.
Prerequisite: Auto Tech 54. Trouble shooting the various components of the
automobile using the oscilloscope and dynometer and other precision instruments. To include the study and servicing of various automotive smog devices.
$\$ 5.00$ material fee payable during first week of instruction.
AUTO TECH 57 (4)
Hrs. Lec. 3 Hrs. Lab
Hs. Lec. ${ }^{\text {study }}$ the principles and laws verning fiuids. The design and func-
on of hydraulic and pneumatic components, seals, fluid types, circuits and ponents, seals, Latest developments in the control and transfer of energy and its
relationship to automotive technology. (Same as Ag 35)
AUTO TECH 58 AUTO TECH 58 (3) 2 Hrs. Lec. 3 Hrs. Lab.
high school auto mechanics The cours high school auto mechanics. The course
is designed to impart knowledge and is designed to impart knowledge and
information needed by the student to enter and make progress in employment on a productive basis in the automotive
air-conditioning service industry $\$ 5.00$ air-conditioning service industry. $\$ 5.00$
material fee payable during first week of instruction.

$$
\text { AUTO TECH } 59
$$

UTO TECH 59 (3)
mechanical systems. (Same as Ag 37)
AUTO TECH 60 (3)
ELECTRICAL, STARTING,
CHARGING, IGNITION AND
RELATED ELECTRICAL SYSTEMS
2 Hrs. Lec. 3 Hrs. Lab.
dvanced study of automotive electrical
procedures on the various systems.
5.00 material egistration.

AUTO TECH 61 (3)
AUTOMATIC TRANSMISSIONS
${ }_{2}$ Hrs. Lec. 3 Hrs. Lab.
Design, construction, mechanical and automatic transmission. $\$ 5.00$ material bustion engine and service procedul payable during registration.
-

AUTO TECH $75{ }^{\text {(3) }}$
AUTOMOTIVE SKILIS
3 Hrs. Lec.
This is a comprehensive course in too of tools and equipment for the begin ning student in the technologies. The course is for the student who has no developed a background in industriaa echnology, as well as for the bilingual
student who wants to improve his technical vocabulary. (Same as Ag 75, Weld 75)
AUTO

AUTO TECH 80 (2)
EMISSION CONTROLS AND HEADLIGHT DIAGNOSIS AND ADJUSTMENTS
Prerequisites: Auto Tech 51, Auto Tech 54, Auto Tech 56 or experience as a mechanic in the automotive field. Review and advance study of tune-up,
emission controls and headlight problems using correct procedures as set forth by the State of California. This fications and equipment.
AUTO TECH 81 (2)
AUTO TECH 81 (2)
BRAKE LICENSIG AND
AIR-CONDITING
BRAKE LICENSING AND
AIR-CONDITIONING
$1^{1 / 2}$ Hrs. Lec. $1^{1 / 2}$ Hrs. Lab.
Prerequisites: Auto Tech 53 or permis sion of the instructor. This course is de-
signed for those students who wish to pass the brake licensing state test by earning state laws, brake adjusting and epair procedures and trade servicing o utomotive air-conditioning.
AVIATION

AVIA 1 (3)
INTRODUC

## introduction to aviation

 3 Hrs. Lec.Serves to
Serves to meet the written test and ground school requirements to procure fresher for Pilots Tifate and as a reaviation, meteoro. The material covers aircraft engines, and current FAA regu

## AVIA 2 (3)

AVIA $2(3)$ 3 Hrs. Lec.
Prerequisite: Private Pilot's certificate. This course is designed to prepare
private and commercial pilots for the FAA instrument written examination. also serves as a reference course for all pilots and prepares those who are studying for the
examination.

BIO 3 (3) PRINCIPLES OF BIOLOGICAL SCIENCE
2 Hrs. Lec.
2 Hrs. Lec. 3 Hrs. Lab.
Not open to students with credit in
Zoology or Botany. A consideration Zoology or Botany. A consideration of for those students who intend to take only one semester of general biological
science. May be combined with Physical Science 25 for a year course in the basic principles of natural science.

## BIO 21 (4)

2 Hrs. 2 Hrs. Lec. 6 Hrs. Lab.
Prerequisite: Any year course in a high
school life science ar a lege biology. Provides students with fundamental concepts of the structure and physiology of non-disease and dis-
ease producing microorganisms with ease 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.
$\qquad$
BOT 1A (4)
OTANY
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 1 B (4)
GENERAL BOTANY 2 Hrs. Lec. 6 Hrs. Lab Prerequisite: Bot 1 A . 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 1 (4)
RINCIPLES OF ACCOUNTING Hrs. Lec. 1 Hr Lab.
Prerequisite: Satisfactory score on the mathematics placement test or
completion of Math 51 with a cor better grade. Introduction to the theory, practice, and principles of accounting as they relate to service enterprises and
mercantile enterprises. Includes the completion of the accounting cycle,
sales, purchases, summarizing and reinventories, deferrals and accruals, depreciation, systems and controls and payroll systems.
BUS 1B (4) 4 Hrs. Lec. 1 Hr. Lab.
Prerequisite: Satisfactory completion of ships, corporations, departmental accounting, process, cost systems, job order costs, budgetary control, income
taxes, cash flow, and financial statement analysis.
BUS 2 (3) 3 Hrs. Lec.
A basic beginning college course that
introduces U.S. business and industry introduces U.S. business and industry. business, business forms and organization, management, finance, marketing, government and legat regulations, pri-

## BUS 3 (3)

SS MANAGEMENT
Hrs. Lec.
A sudy of the organizing and merchandising problems of a business; financial BUS 4 (3)
BUS 4 (3) 3 Hrs. Lec.
The organization and operation of syslems for the distribution of goods and wholesale distribution of retail and consumer buying characteristics, marketing of industrial goods, cooperative marketing of agricultural products, priing policies and governmental regula-

## BUS 5A (3)

## Hrs. Lec.

Principles of business law and their application to actual cases involving business transactions, law and the resolu-
tion of disputes, social forces and legal ights, contracts, agency and employment, and commercial paper.

## BUS 58 (3) BUSINESS LAW

3 Hrs. Lec.
Principles of business law and their apness transactions, personal property and bailments, sales, security devices and insurance, partnerships, corpora-
tions, reai property, estates and bankruptcy, and government and business. Bus 5B may be taken before Bus 5A.

## BUS 6 (3) <br> NT CONCEPTS OF

 SUPERVIS3 Hrs.
The role of the supervisor in industry and business; the development of tech
niques in meeting administrative, organ izational, labor and human relations problems; the utitization of men machines and materials, and

## BUS 7 (3)

HUMAN RELATIONS IN

## 3 Hrs. Lec.

Improving supervision by the use of basic psychology in building bette employer-employee relationships
through human relations techniques development of leadership qualities main human relations problems and eir causes and solutions.

## BUS 8 (3) PERSONNEL

PERSONNEL MANAGEMENT
3 Hrs. Lec.
A course
A course that introduces personne
management in management in the light of curren search and practices based upon research and company experience
Includes the personnel management system, staffing, employee and manage ment development, group behavior management-union relations, compensation, security and a look into the

Bus 9 (3)
MATHEMMATICS FOR BUSINESS

## ANALYSIS

ANALs. Lec.
(Same as Math 17)
BUS 10A (3)
PRACTICAL BOOKKEEPING ${ }_{3} \mathrm{Hrs}$. Lec.
A basic course in elementary basic accounting principles that uses the practice set approach" to learn how to
journalize and post transactions fo service-type businesses that keep their bus 10B (3)
PRACTICAL BOOKKEEPING
3 Hrs. Lec.
Prerequisite: Bus 10A or permission of instructor. A course that usses the
"practice set apprach" in learning how "practice set approach" in learning how
to journalize and post transactions for merchandising businesses that keep their books on the accrual basis. BUS 11 (3)
PERSONAL FINANCE
3 Hrs. Lec.
Practical application of the principles good business to the handling of personal funds. Budgets. financial ser-
vices, insurance ownership, taxes, and consumer prob lems. (Same as Soc Sci 69)

BUS 12 (2)
PERSONAL
2 Hrs.
An elementary course in computation of
income tax, use of forms and some of the
lions are studied and students are
taught to prepare returns.
BUS 13 (3)
AUS 13 (3)
3 Hrs. Lec.
one-semester course covering court and court procedures. contracts, sales, agency and employment, partnerships, corporations, insurance, and property.
Not open to students who hav Not open to students who hav
completed Bus 5 or the equivalent.

## BUS 14 (3) PRACTICAL

PRACTICAL SALESMANSHIP
The practical background of salesman ship; the duties and functions of a sales man in the selling of ideas, services, and importance of salesmen in the marketing
economy.
BUS 19 (3)
EMPLONAL DEVELOPMENT FOR EMPLOYMEN
3 Hrs. Lec.
A thorough study of the process and practice of obtaining employment in the
business world. Designed to meet the special needs of students in the field such as: Marketing-Distribution Business Supervision; Secretarial Data Processing, etc. Skills develop ment in the areas of job search, employ er contact, resume writing, interviewing dress, and job-holding practices.
BUS 20 (2)
Lementagy typewriting Hrs. Lec. 3 Hrs. Lab.
Designed to impart the fundamental kills and knowledge of typing. The stuof typewriting production. Not open to sudents who have had previous instruc-
ion in typewriting.
BUS 21AB (2-2)
PROFICIENCY-EXIT TYPEWRITING 1 Hr. Lec. 4 Hrs. Lab.
rerequisite: Bus 20 or the ability to type 20 wpm. Designed to bring students to on business letters. manuscripts, tabulation and statistical work. Bus 218 may attain office-level proficiency in Bus

## BUS 36 (3)

SHORTHAND FOR

## 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. (Same as Span 18)

## BUS 39 (3)

## OFFICE PROCEDURES

Prerequisite: Bus 21 AB or the ability to type 50 wpm . An integrated course oriented toward production techniques
that meet the standards of the business community. Covers the full range of office duties stressing those competen-
cies required of the general office cies re
worker.

## BUS 40 (3)

## 3 Hrs. Lec.

${ }^{3}$ Prerequisite: Assignment by placement Prerequisite: Assignment by placement
test. A review of the parts of speech, the structure of the sentence, and puncluation. Exercises to improve
English usage will begin with the writing of various sentence types and progress to the writing of single descriptive and expository paragraphs. Designed for the student who needs to review and
practice basic skills before taking Eng 51 or Eng AB. Concurrent enrollment in Eng 50AB is strongly recommended. ment in communications.

## BUS 41 (2)

 CORRESPONDENCE2 Hrs. Lec.
Prerequisite: Ability to type. Bus 40 recommende. Emphasizes the basic tive business communications. The business vocabulary - pronunciation, spelling, meaning, and punctuation styles will be stressed. Not open to students who have completed Bus 42.

## BUS 42 (3)

3 Hrs. Lec CORRESPONDENCE
3 Hrs. Lec. sis 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 43 (3)
BUSINESS CORRESPONDENCE IN SPANISH
3 Hrs. Lec.
(Same as Span 19)

MUS 47 (8)
4 Hrs. Lec. 12 Hrs. Lab.
rempletion of Eng 51 or equivalen 4, Bus 49A, or permission of instructo A course for persons intending to work business office. Emphasis is on the business/office duties. Topics includ professional attitudes and behavio ethical-legal practices and general 6 hours of classroom lecture followed by hree hours weekly lecture and 18 hours community lab assignments. (Same MA 1)

## BUS 48 (2) MEDICAL

## MEDICAL INSURANCE

Prerequisite: Bus 21AB. A course for persons intending to work in a physi cian's office, hospital or clinic busines fffice. Topics include Medi-Cal
Medicare, Workmen's Compensation, group and individual health insurance policies, professional liability, instruccompletion of forms from medical records.
BUS 49A (3) SECRETARIES
3 Hrs. Lec.
Provides tr
Provides training in the proper usage used in the medical sciences. Empha sizes terms utilized in the state of health ymptoms, diagnostic tools and medical secrerial sudents.
US 498
MEDICAL TER

## 3 Hrs Lec

Prerequisite: Bus 49A. Provides trainin in the proper usage, meaning and origin sciences. Emphasis is on diagnosis and reatment of disease states. The cours designed for medical secretaria students.

## BUS 50 (3)

to Data

## HROCESSIN

An introductory course designed to each the basic understanding of dat processing systems, to survey unit student with the electronic computer a he basis for data processing system and to teach basic Fortran IV.

BUS 51 (3)
ATA PROCESSING OPERATIONS
3 Hrs. Lec. 1 Hr. Lab.
An introduction to computer hardwa
and its operation. Students will exper-
ience actual hands-on operation with ience actual hands-on operation with key punches, sorters, kers.
BUS 52 (3)
COMPPUTER
COMPUTE
Prerequisite: Bus 50. A basic course in the programming of electronic digita computers to prepare programicrsand or employment in business and industry. Course covers problems o ata processing, characteristics

BUS 53 (3)
UMPUTER PROGRAMMING II
Hrs. Lec.
Prerequisite: Bus 52. A second semester course in electronic digital computer programming designed for studen iciency in programming input and output devices, machine-aided coding program optimizing, basic file mainten ance, computer problem planning and eport writing.

## bus 54 (3)

ESSING SYSTEMS
3 Hrs. Lec. Prerequisite: Bus 53. A study of data processing systems and procedure usiness data processing applications integrated processing principles, total management information, and data sysems concepts. Case study project procedures are stressed.

## BUS 55 (3) <br> BUS 55 (3)

3 Hrs. Lec.
A practical course covering the fundauage as adapted to a variety of different applications. (Same as Math 47)

## BUS 56AB (1-1)

Hrs. Lab. Bus 52 or Bus 53 . Course designed to experiences with software and hardware related to the curricula of Bus 52 and Bus 53

## BUS 59 (1)

KEYPUNCHING
1 Hr . Lec. 2 Hrs Lab.
Prerequisites: Ability to type 40 wpm . Beginning course in acquainting the
student with the basic principles of punched card key machines. The course is designed to develop keypunching
skills to entrance-level job requirements.

## BUS 60 (3) 3 Hrs. Lec.

Fundamentals of bank function in the descriptive fashion so that the beginning student may seek a broad and open perspective in banking
BUS 61 (3)
ANALYSIS OF FINANCIAL
STATEMENT
3 Hrs. Lec.
Prerequisites: Bus 1A and 1B. This course focuses upon investment and analysis of credit to appraise the extent mine the willingness and ability of prospective debtor to repay a proposed loan in accordance with terms set forth. Topic includes prorl-loss anatysis. ment of ratio analysis.

## BUS $62(3)$ INSTALLME <br> 3 Hrs LIMENT CREDIT 3 Hrs. Lec.

 establishing the credit placed on checking information; servicing the loan and calculating the amount due. Other topics discussed are inventory financingand special loan programs. Business and special loan programs. Business
development advertising in the relations aspect of installment lending.

## BUS 63 (3)

FINANCING BUSINESS

## ENTERPRISE

3 Hrs. Lec.
Stress is placed on the difference between lending and investing. Investing in a corporation and financing a corporation or the different aspects of the same subject. In this course, the material is
presented from a viewpoint of a corporate treasurer who must safeguard the financial future of his corporation.

## bus 64 (3)

agricultural finance 3 Hrs. Lec.
This course emphasizes general principal associations with evaluation of rather than stressing the use of capita rather than stressing he exac whith are more closely aligned with agricultura production. An understanding of agricultural financing should help the modern agriculture.

## BUS 65 (2)

RETAIL SALES CHECKING
2 Hrs . Lec. 1 Hr . Lab.
A practical skills course of instruction A practical skills course of instruction
designed to prepare a person to become
an efficient retail sales checker.

## BUS 70 (3)

GOVERNM

## Explores theory

 organizations with emphasis administrative structure and functions the role of bureaucracy; and the conditioning of administration by its environment. Techniques and practices are suggested which will help carry ouduties effectively. Deals with manageduties effectively. Deals with; manage-
ment analysis techniques; systems analysis and systems implementation organization audits appraisal and management by objectives; work and time
measurement techniques; the organization (chart), its structure and communi cations system; forms and records management; manuals and other admini
strative directives; work simplification strative directives; work simplification
techniques of work-flow and process charting; reports control.
BUS 71 (3)
STATE AND LOCAL GOVERNMENT MANAGEMENT
3 Hrs. Lec. State, county, city and special distria
governments explored in terms of urba and metropolitan challenges confront ing political units in California and the local vicinity, with emphasis on racial and ethnic relations, problems in provi
sion of public services, crime and justice, planning and renewal, intergov justice, planning and renewal, intergoving a description of administration, iden.
tification of sources of fiscal support, in tification of sources of fiscal support, in
ventory of services, and procedures fo regulation and modification.
BUS 72 (3)
FINANCE

## FINANCE 3 Hrs. Lec.

Appraises the usefulness of fiscal mech anism, outlines the generally accepte
principles of organization and pro cedure, the relationships of the sever fiscal functions to each other. Survey
fiscal fiscal policies; the appropriation pro controls, reporting, and analysis budget preparation, authorization, and execution; planning budgeting systen fiscal
audits.
BUS 79 (3)
PUBLIC REL
3 Hrs. Lec.
(Same as Jrn

## BUS 89 (3)

LAW OFFICE PROCEDURES AND PRACTICES FOR SECRETARIES 3 Hrs. Lec.
Practical instruction and exercises to secretaries; forms of pleadings; pro divorce, and civil litigation); the
library and legal research; dictation library and legal
legal documents.

## BUS 90 (3)

REAL ESTATE PRINCIPLE
3 Hrs. Lec.
An analysis of the principles of real
An analysis of the principles of real 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 (3) <br> heal estate practices

Prerequisite: Bus 90 or employment in the real estate field as a licensee. An
analysis of the problems related to the 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 ofliling process, closing the sale, financing real estate, exchanges and specialized brokerages, income proper-
ties, property management and leasing, les, property management and leasing,
taxes and real estate deais, land utilization, and professional and public relations.

$$
\begin{aligned}
& \text { BUS 92A (3) } \\
& \text { LEGAL ASSE } \\
& 3 \text { Hrs. Lec. }
\end{aligned}
$$

Prerequisite: BuF REAL ESTATE

$$
\begin{aligned}
& 3 \text { Hrs. Lec. } \\
& \text { Prerequisite. }
\end{aligned}
$$ the real estate field as a licensee A A prac Estate applied study of California Real avoiding legal difficulties of help in arise in connection with real estate transactions.

BUS 928 (3) 3 Hrs. Lec.
Prerequisites: Bus 92A or real estate
license. This course expands license. This course expands the cover-
age of the basic course outline on this age of the basic course outline on this
subject to include further consideration of those areas of the law where problems are most frequently encountered or
which present so many facets that further time is needed to consider adequately the scope and effect of applica-

$$
\begin{aligned}
& \text { ble laws. } \\
& \text { ber }
\end{aligned}
$$

BUS 93 (3)
REAL ESTATE FINANCE
3 Hrs. Lec.
Prerequisite: Bus 90 or employment in the real estate field as a licensee. A practical applied study and analysis of
money markets, interest rates and estate financing, with actual case illustrations demonstrating lending policies, problems, and rules involved in
financing real property, residential, multifamily, including and special purpose properties.

## BUS 94A (3) REAL ESTATE <br> \section*{3 Hrs. Lec.}

Prerequisite: Permission of the instructor or employment in the real estate field as a licensee. Methods and
techniques for determination of 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 vequired. Principles of real estate tion and sales analysis methods o appraising are studied with an emphasis on residential properties.

## BUS 94B (3)

REAL ESTATE APPRAISAL

## 3 Hrs. Lec.

Prerequisite: Bus 94 A or real estate appraisal techniques of real estate appraisal and the use of the three standard approaches to value on the many types of properties and interests
that an appraiser might be called upon for an opinion of value, such as apartments, commercial, inch industial,
rural property, leasehold interest, rural property, leasehold interest
business values, and the bounds business values, and the bounds of
responsibility. responsibility
BUS 95 (3)
REAL ESTATE ECONOMICS
3 Hrs. Lec.
Prerequisites: Bus $90,91,92 \mathrm{~A}$ and 92 B Prerequisites: Bus $90,91,92 \mathrm{~A}$ and 92B,
recommended Bus $93,94 \mathrm{~A}$ and 94 B . A practical study of the economic aspects
of real estate designed to provide grasp of the dynamic economic conditions and other factors underlying the real estate business in California.
This is designed to be the senior course This is designed to be the senior course

- the final course - in the real estate curriculum.

CARP 1 (3)
APPRENTICESHIP AND
MATHEMATICS
2 Hrs. Lec. 2 Hrs. Lab.
Prerequisite: Permission of the that the apprentice will know what part he will take in the construction industry It will introduce him to the following subjects: the construction industry,
collective bargaining, the role of government, wages and benefits, the purpose of the ioint apprenticeship
committee, and the development committee, and the development of carpentry mathema
will find necessary.

CARP 2 (3)
AND PLOT PLANNing 2 Hrs. Lec. 2 Hrs. Lab.
Carp 1 uisite: Successful completion of Carp 1 or permission of the instructor. apprentice to interpret and apply the building codes, the types and purposes for it, why it it ing, who is responsible begins. The student will and where it read blueprints and specifications, understand surveys, property and building lines, and setbacks. Excavating retaining wall forms will also, walls and

## CARP 3 (3)

ROUGH FRAMING
2 Hrs. Lec. 2 Hrs. Lab
Prerequisite: Satisfactory completion of Carp 2 or permission of the instructor.
This course is designed to teach the student various methods of framing, such as plot form or Western versus Ballon Framing, materials used, limitaprocedures and how to calculate for rough openings and a study of the building codes.
CARP 4 (3)
ROOF FRAMING
2 Hrs. Lec. 2 Hrs. Lab.
rerequisite: Satisfactoctory completion of course designed to cover the types and styles of roofs, roof framing tools, roof afters, layout of hip, volley and jack CARP 5 (3)
INTERIOR AND EXTERIOR FINISH 2 Hrs. Lec. 2 Hrs. Lab. permission of the instructor. A complete study of modern home exteriors and
interiors: finishes and design will be interiors: finishes and design will be
covered. Emphasis will be on why certain types of materials are used
Nomenclature and the methods of Nomenclature and the methods of
cutting and installing finishes will be cutting a
studied.
CARP 6 (3)
TAIR BUILDING
Hrerequisite: Satisfactory completion of Carp 5. The student will study the many ypes of stairs and stair design. The cod will be covered. CARP 7 (3)
Hrs.
Hrs. Lec. 2 Hrs. Lab.
permission of 6 or forms and iden how to erect concret

issues of public policy; and micro-
analysis in the direction of production
and the allocation of resources through the price-system.

EDUCATION
ED 1 (2) 1 Hr Lec. 3 Hrs. Lab.
Recommended for students interested in a teaching credential. Opportunity to
explore specific grade levels through explore speciric grade levels through actual classroom situations. Gives broad ove
teaching.
ELECTRICITY

ELECTRICITY 1 (3)
BASIC ELECTRICITY
2 Hrs. Lec. 3 Hrs. Lab.
Prerequisite: Math 51 or satisfactory score on placement test. An introductory course to the study of elec tricity and electronics. Basic theory of use and selection of various electrica components. instruments and circuits is presented in the lecture. Practica
are performed in the lab.

ELECTRONICS

## ELECTRONICS 1A (4)

3 Hrs. Lec. 4 Hrs. Lab.
rerequisites: Electricity 1 or satisfactory score on the electronics screening
examination and completion of Math 51 or satisfactory score on the placement examination. Course covers the fundamental characteristics of transistorsand stage amplifiers.
ELECTRONICS 1 B (3) EABRICATION
2 Hrs. Lec. 3 Hrs. Lab.
Prerequisite: Electronics 1A. A course to
the tools, hardware and procedures used in the assembly and fabrication o lectronics systems.
ELECTRONICS 2 (5)
TRANSISTORS AND SE
CONDUCTORS
Prerequisites: Electronics 1A and 1B. Study of the semi-conductor devices
and circuits with application of fundacircuits and propogation.

## ELECTRONICS 3 (3)

## FCC 2nd CLASS RADIOTE

 LICENSE PRHrs. Lec.
Prerequisite: Electronics 2. Preparation for second class radio-telephone operator's license and operation and maintenance of studio equipment and transmiters

## ELECTRONICS 4 (3)

## ICENSE PREPARATION

3 Hrs. Lec.
Prerequisites: Electron Class FCC Radiotelephone License, or ation. Preparation for the first clas radiotelephone operator's license and dvanced problems in studio and trans itter operation.
ELECTRONICS 5 (3)
(3) ELECTRONICS 3 Hrs. Lec.
Prerequisite: Electronics 2 . Theory and application of switching networks and ircuits, truth tables and ilementer digital circuit analysis.

EmERGENCY MEDICAL TECHNICIAN

## EMT 1 (5.5) EMERGENCY <br> EMERGENCY MEDICAL

5 Hrs. Lec. 1.7 Hrs. Lab. A course for individuals who will come in contact with sick or injured persons in
an emergency situation. Although aimed primarily for ambulance attenassistance to all emergency service personnel in law enforcement, fire fighting, hospital emergency rooms and rescue units. Topics considered will include the role and responsibitities of medical-legal responsibilities and community resources for health and social care. Students will be taught to evaluate diagnostic signs and dedent of injuries. Procedures for dealing with life-threatening emergencies are presented: pulmonary and cardiopulmonary resuscitation, control of rommental problems, childbirth and lifting and moving techniques will also be considered. Students will receive clinical laboratory experiences in hospi-
tal emergency rooms and on ambulance calls. The course is approved by the calls. The course is approve Health for
EMT
EMT training. One hent of hundred and seven-

## leen hours required for completion a ENGR 10 (3)



## EMT 1R (1.5) $\begin{aligned} & \text { Prerequisite: } 12 \\ & \text { applied course in geometry, algebra, }\end{aligned}$ EMERGENCY MEDICAL TECHNICIAh and trigonometry with applications to

 1.5 Hrs. Lec. 0.4 Hrs. Lab. Prerequisite: EMT 1 and current CP; ENGR 11 (3) certification. A course for individualk BASIC ELECTRICITY cates have expired or will expire withir Prerequisite: Math 2 or Math 3A. An inthe next six months (certification may troductory course to the study of electrinot be expired more than six monthsj city and electronics. Basic theory of the The course will review life suppol physical phenomena involved in the use measures, cardio and the use of emergency medica ponents, instruments and circuits is preequipment and supplies. Specific prob sented in the lecture. Practical experilems related to Imperial County will b ments demonstrating this theory are discussed. Thirty-six hours required
## completion of course: 28 hrs. Lec.; 8 hrs ENGR 12 (3) Lab. ARCHITECTURAL DRAFTING I

 1 Hr. Lec. 5 Hrs. Lab.Prerequisite: Engr $2 A$ or eligibility for
Engr 2A. The course offers: basic elements in planning various areas of a residential structure and combining these areas into a composite functional
ENGINEERING RANW, Lab. $\quad$ plan; basic techniques and procedures
11/2 Hrs. Lec. 41/2 Hrs.
Prerequisite: Engr 21 or equivalent, 0 needed in preparing architectural floor

## ENGINEERING DRAWING

ENGR $2 A$ (3 permission of the instructor. Geometn plans, foundation plans and pictorial construction, sketching, dimensioning theory of or
auxiliaries. California Building Code.
ENGR 13 (3)

## ENGR 2B (3)

1 Hr . Lec. 5 Hrs . Lab
$11 / 2$ Hrs. Lec. $4^{1 / 2}$ Hrs. Lab. Prerequisites: Engr 12 or equivalent.
 ance, piping, structural and mechania diosign including, location plans, sec-
design, velocities and accelerations design, velocities and accelerations various types, framing plans, specifica-
machines, cams, gears and gear teett tions, electrical and air-conditioning mar tions, electrical and air-conditioning ENGR 3 (3) DESCRIPTIVE GEOMETR plans, plumbing diagrams and modular
construction plans, building codes $1 / 2$ Hrs. Lec. $4 / 2$ Hrs. Lab. $\quad$ History of architecture.
Prerequisite: Engr 2A or 2B. An ar ENGR 14 (3)
dinced course in drawing: three dime ARCHITECTURAL DRAWING III sional location of points, lines ant 1 Hr. Lec. 5 Hrs. Lab.
planes; surface and intersection prol Prerequisite: Engr.

planes; surface and intersection proi Prerequisite: Engr 13 or equivalent. | $\begin{array}{l}\text { lems with engineering applications an Working drawings for small commercial } \\ \text { vector geometry. } \\ \text { buildings. Planning merchandising }\end{array}$ |
| :--- |

## ENGR 5 (3)

ENGR 5 (3)
STRENGTH OF MATERIALS 3 Hrs. Lec.
3Hrs. Lec. $\quad \begin{aligned} & \text { clinics, food stores, restaurants and } \\ & \text { cateterias, motels and parking facilities, } \\ & \text { shopping center }\end{aligned}$ shopping centers, churches. Curtain-
components of forces, force momentlol systems. Uniform Building components of forces, force moment Modern American architecture Code. inertia of an area. Stress and strain tENGR 15 (3)
beams, columns, bars and shaiss Hrics
sending moments combined wis Hrs. Lec.
ENGR 6 (3)
1 Hr. Lec. 5 Hrs. Lab.
Prerequisites: Phys 2A and Math Study of properties of materials, tec cal methods of testing, structu

## ENGR 16 (3) YYAMICS

3 Hrs. Lec.
Prerequisites: Engr 15 and Phys 4B. Kinematics of a particle, radius of gyration, dynamics of a particle, dynamlation and rotation, working energy impulse and momentum, simple harmonic motions and vibrations, conservation
momentum.

## ENGR 18A (3)

## Hr. Lec. 6 Hrs . La

Prerequisite: Math C, Engr 21, or equivaent. Principles of surveying, use of sur veying instruments in the field, calcula
tions, mapping and plotting. ENGR 18B (3)
ENGR 18B (3)
ADVANCED SURVEYING
1 Hr. Lec. 6 Hrs. Lab.
Prerequisite: Engr 18A. Topographic
surveying with study of triangulation and cross section work, horizontal curves.
ENGR 19 (6)
STATICS AND
HATICS AND DYNAMICS
6 Ars. Lec.
Prerequisites: Phys 4 A and Math 3 B Using vector mechanics for analyzin with force systems, static equilibrium requirements, centroids, friction, moments of inertia of area and mass, centers of gravity, shear and moment
diagrams. Kinematics of a particle. radius of gyration, dynamics of a particle, dynamics of a rigid body in
plane motion, translation plane motion, translation and rotation, working energy impulse and
momentum, simple harmonic motions momentum, simple harmonic motions and angular momentum. (Same as Eng 5 and Engr 16)

## ENGR 21 (3)

TECHNICAL DRAWING
$1 / 2 \mathrm{Hrs}$. Lec. $4^{1 / 2} \mathrm{Hrs}$. Lab.
A general course for students who have had no high school mechanical drawing Covers proper use of drafting instru-
ments. geometric constructions, letter ing, orthographic projections, pictoria ing, orthographic projections, pictoria
representations, isometric drawings dimensions, and symbols.

## ENGR 23 (1)

hand calculators and
COMPUTATIONS
1 Hr Lec.
Prerequisite: Completion of Math X. Per forming necessary manipulations with the calculator, while using correc
methods to solve engineering and technical problems.

ENGR 30 (2)
N TO ENGINEERING
Helping the engineering student adjust to college life through motivating experiences and guidance, clarifying his conengineering profession, and aiding him to acquire the fundamental tools and skills required in his future work
ENGR 53 (2)
CONSTRUCTION MATERIALS 1 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 (3)
STRENGTHS OF MATERIALS 2 Hrs. Lec. 2 Hrs. Lab.
Prerequisites: Engr 21, Engr 61B. Fun-
damental stress and damental stress and strain relationships.
simple stresses, physical properties of 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, and deflections in beams and columns. torsiona
stress.
ENGR 61A (3)
TECHNICAL MATHEMATIC
Prerequisite: Satisfactory score on mathematics placement test. Slide rule; tions; exponents and radicals: linear and quadratic functions; solution of triangles.

## ENGR 618 (3) <br> TECHNICAL MATHEMATIC

 3 Hrs. Lec.Prerequisite: Engr 61A. Applied voca-
tional mathematics; manipulation mulas; introduction to geometry; the use of graphs, proportions, percentage.

## ENGR 65 (3)

STATICS
3 Hrs. Lec.
Prerequisite: Engr 618 or equivalent. s and equilibrium.

## ENGR 66 (6)

6 Hrs. Lec.
Prerequisites: Math 2 and Engr 61B or Engr 10. Analyzing and solving practical problems dealing with force systems, static equilibrium requirements, cen
troids, friction, moments of inertia of area and mass, centers of gravity, shear and moment diagrams. Kinematics of a article, radius of gyration, dynamics of plane motion, translation and rotation,
orking energy impulse and momentum, simple harmonic motion and vibrations, conserv.

## ENGR 72A (3) <br> URVEYING FOR ENGINEERING

HeCHNOLOGY
Prerequisite: Engr 21 and 61 A or equivaCare or permission of the instructor and accessories, differential leveling and measuring horizontal angles. ENGR 72 B (3)
SURVEYING F TECHNOLOGY
Hr. Lec. 5 HI Libl 1 Hr . Lec. 5 Hrs Lab.
Prerequisite: Engr 72A. Calculations,
field book entries, running traverses, mapping and plotting.

Students with a reading level of 11 th or 12 th grade are strongly advised to enroll in English 12, Speed Reading,
during their FIRST SEMESTER. Students with a reading level BELOW 11 th grade are urged to enroll in English 50 AB , Reading Development, during their FIRST SEMESTER.

Placement Procedure

Students who wish to enroll in Eng B or under either I or II.

1. Satisfactory score on the reading placement test. atisfactory performance on an
instructor recommendation based on the first week of class.

OR
II. Instructor recommendation for Eng Course at IVC.

Students satisfying either criterion will
Students satisfying either criterion wing
section of Eng B or 1 A for the balance of
the semester at a time convenient to them.

## ENG A (3) <br> Hrs. ENGLISH COMPOSITION

 ${ }^{3}$ Hrs. Lec lest and instruct Preparation for opmental instruction in provides develshort essay writing and in reading composition and analysis approaching the college level. The course follows in sequence from Eng 56 B and is taughtsimultaneously with Eng B. Concurrent enroliment in Eng 50B is strongly recommended.
ENG B (3)
BASIC ENGLISH COMPOSITION
3 Hrs. Lec. Preparation for Eng 1A. The course seeks to improve the student's mastery of the short essay and to teach reading comprehension and analysis at the sequence from, and is taught simultaneously with, Eng A. Concurrent
enrollment in Eng 50 B is strongly enroliment in
recommended.

## ENG 1 A (3)

3 Hrs. Lec. Prerequisite: Satisfactory score on
reading and writing placement tests and instructor recommendation. The standard course in freshman English student's ability to understand serious and complex prose and to improve the student's ability to write exposition tha is thoughtful and clear.

## ENG 1B (3)

INTRODUCTION TO LITERATURE
3 Hrs. Lec.
Introduction to the study of poetry, Introduction to the study of poetry,
fiction and drama, with further practice in writing. It is recommended that th in writing. It is recommended that
student take Eng 1A before Eng 1B.

ENG 2 (3)
NTRODUCTION TO LINGUISTICS 3 Hrs. Lec.
or consent of the instructor introduction to the various branches o lectal variation, psycholinguistics, ociolinguistics, semantics. Specific work on English sounds, grammar, an ialects, ith Sluding comparisons or teachers, teacher aides, students o oreign languages, and anyone interested in extending his knowledge o and bingul students. and bilingual students.

ENG 3 (2) AND CRITICISM
Origin and development of the film. A Origin and development of the film. An
inquiry into the quality of artistic vision which is the sole property of the fiim as an art form. A selection of films from dil ferent historical periods is critically
examined. (Same as Hum 3. MPP 3)

## ENG 4A (2) FILM CRITICISM: WESTERNS, COMEDIES, MUSICALS

COMEDIES, MUSICAL
A continuation of Eng 3 with emphasis on certain major genres and directors This course will tocus on the western the comedy and the musical, and o
such directors as Ford, Kurosaw Peckinpah, Chaplin, Keaton and Tati May be taken before Eng 3/Hum 3/ (Same as Hum 4A, MPP 4A)
ENG 4B (2)
FILM CRITICISM: HORROR, FANTAS 1 SCIENCE FICTION
This course will focus on films of horro suspense, fantasy and science fiction and on such directors as Dreyer Fellini. May be taken befor ng/Hum/MPP 3 and 4A. (Same as Hu EB, MPP 4B)
ENG 4C (2)
FILM CRITICISM: GANGSTERS POLITICS, SOCIAL PROTEST Hr. Lec. 2 Hrs. Lab. This course will focus on films of soci
protest, politics and war gangster movie, and on such directo as Eisenstein, Renoir, Godard, Bunuà De Sica, Rocha and Truffaut. May taken before Eng/Hum/MPP 3, 4A
4B. (Same as Hum 4C, MPP 4C)
ENG 4D (2) EXPERIMENTAL FILMS
1 Hr. Lec. 2 Hrs. Lab.
This course will focus on the feature fil of social observation, the documentat and the experimental film, and on sud
directors as Fiaherty. Ozu, OIm Rohmer, Bergman, Antonioni, Losey,
Ray, Cassevetes and Brakhage. May Ray, Cassevetes and Brakhage. May
taken before Eng/Hum/MPP 3,4A taken betore Eng/Hum/MPP MPP 4D) ENG 7 (3)
3 Hrs. Lec
Prerequisite: Eng 51, Eng AB, Eng 1A experience in writing various kinds technical reports, descriptions, an evaluations; writing assignments, fitte Satisfies part of the individual studen ments in communications.

## ENG 8 (3)

ADVANCED COMPOSITION
3Hrs. Lec.
Prerequisite: Eng 1A. Advanced
Prerequisite. Enge, argumentation,
expository prose description and the study of prose style.
Offers an opportunity for learning to Offers an opportunity for learning to
write through helping others write (tutoring).

## ENG 9AB (3-3) CREATIVE WRITING

3 Hrs. Lec.
Prerequisite:
Prerequisite: Eng 1B or permission of the instructor. Study and application of
the principles of literary construction, plus exercises in the writing of imaginative literature, including short story,
poetry, drama, and essay. poetry, drama, and essay.
ENG 10 (3)
INTRODUCT
INTRODUCTION TO MOTION PICTURE PRODUCTION
$3 \mathrm{Hrs}$. Lec. Plus production practice hours to be arranged
(Same as MPP 10)
ENG 12 (3)
3 Hrs. Lec.
Designed to help adequate readers become superior readers. Recommend-
ed for college transfer students who wish to develop the efficient reading
skills necessary for all types skills necessary for all types of college level reading. Individual in in addition to lecture hours.
ENG 15 (3)
AMERICAN LITERATURE
3 Hrs. Lec.
Prerequisite: Eng 18 is recommended or permission of the instructor. A study of
ENG $16 A(3)$
WORLD LITERATURE 3 Hrs. Lec.
Prerequisite: Eng 1B is recommended.
Study of sele Study of selected literature of the Hebrews, Greeks, Romans, the Middle
Ages, and the Renaissance. Emphasis Ages, and the Renaissance. Emphasis
on literature other than American and
$\qquad$
ENG 16 B (3)
WORLD LITE
3 Hrs. Lec.
Prerequisite: Eng 18 is recommended. Study of selected literature of NeoClassicism, Romanticism, Naturalism,
Symbolism, and modern Symbolism, and modern schools.
Emphasis on literature other than American and English. May be taken before Eng 16A.
ENG 17A (3)
SURVEY OFEN
SURVEY OF ENGLISH LITERATURE
3 Hrs. Lec. $3 \mathrm{Hrs}$. Lec.
Prerequisit
the instructor. Close study of works of
major English writers up to the end of
the 18 th century, with consideration of the more important aspects of English literary history.
ENG 17B (3)
ENG VUREY OF ENGLISH LITERATURE 3 Hrs. Lec.
Prerequisite:
Prerequisite: Same as for Eng 17A. Close study of works of major English
writers of the 19 th and 20th with consideration of the more important aspects of English literary history May be taken before Eng 17A

## ENG 20ABCDEF (3-3-3-3-3-3)

## 3 Hrs. Lec.

Examination of representative literary works of a major author, period, genre or theme; or comparative study of literature and another field, e.g., film, theater art, music, politics, social or behavioral
science. Topics such as Modern Poetry, Science. Topics such as Modern Poetry,
Modern Prose Fiction. Modern Drama, Classic Theater, Introduction to Shake-
speare, Film and Literature The Bible as speare, Film and Literature, The Bible as
Literature, Mythology and Folklore. May be repeated with different content.

## ENG 30A (3) THE MEXICAN

THE MEXICAN AMERICAN IN LITERATURE
3 Hrs. Lec.
Prerequisite: Eligibility for Eng 1 A Study of the contributions by Mexican Americans to all genres of literature.
Course to be developed through the Course to be developed through the
study of the Mexican American historical backgrounds, and by contrasting and comparing the works of
Mexican Americans with their familiar Anglo American counterparts, as well as with the works of familiar Mexican the cultural and literary heritage of the Mexican American. Conducted in English. (Same as Span 28A)
ENG 30B (3)
THE MEXICA

## american in

LITERATURE 3 Hrs. Lec.
Prerequisite
Eng AB or Eng 1A. A continuation con of Eng AB or Eng 1A. A continuation of Eng
30A with emphasis on contemporary Mexican American writers. Conducted in English. Eng 30 B may be take
Eng 30A. (Same as Span 28B)

ENG 40 (4) LANGUAGE
4 Hrs. Lec. 1 Hr. Lab.
Prerequisite: Designated score on
placement test. A beginning course in
English designed for the student who
has not had any formal English classes
in the United States. The course will cover grammar and simple sentence
writing. Capitalization and punctuation

41
will beemphasized through some beginpart of the semester.
ENG 40A (2)
ENG 40A (2) LANGUAGE
2 Hrs. Lec. $1 / 2$ Hr. Lab.
2 Hrs. Lec. $1 / 2 \mathrm{Hr}$. Lab.
Prerequisite: Designated score on placement test or permission of instrucsemester's work of Eng 40 ( 4 units) and is offered for the convenience of night
students who cannot attend more than students who cannot attend more than
one night a week. This course will emphasize vocabulary building, conversational skills and listening comprehension. This course, together with Eng students who have completed Ene 40

## ENG 40B (2)

## GLISH AS A SECOND

 ENG ${ }^{\text {BEGINING }}$ 2 Hrs . Lec. $1 / 2 \mathrm{Hr}$. Lab.Prerequisite: Eng 40A or permission of instructor. This course covers the
second half semester's work of Eng 40 (4 units) and is offered for the convenience of night students who cannot attend class more than one night per week. 40 B is the equivalent to Eng 40 and qualifies the student to enroll in Eng 41 or Eng 41A. Not open to students who have completed Eng 40.
ENG 41 (4)
INTERMEDIA
INTERMEDIATE ENGLISH AS A 4 Hrs. Lec. 1 Hr . Lab.
Prerequisite: Appropriate score on placement test or satisfactory completion of Eng 40 . Eng 41 is an intermediate simple present and past tense usage to more complicated grammatical structures. Basic skills for simple compositions in English are also taug ENG 41A (2)
INTERMEDIATE ENGLISH AS A SECOND LANGUAGE
Prerequisite: Designated score on placement test or satisfactory completion of Eng 40B. The course Covers the ilst half semester's work of Eng 41 (4 of night students who cannot attend class more than one night per week. This course, together with Eng 418, is students who have completed Eng 41 . ENG 41B (2)

## ENG 41 B (2) <br> NECONDDIATE ENGLISH AS A

Hrs. Lec. $1 / 2 \mathrm{Hr}$. Lab.
Prerequisite: Satisfactory completion of Eng 41A. This course covers the second
half semester's work of Eng 41 ( 4 units)
and is offered for the convenience of more than one night per week. Satisfac tory completion of Eng 41A and 41B is equivalent to Eng 41 and qualifies the Not open to students who have completed Eng 41.
ENG 42 (4)
ADVANCED ENGLISH AS A SECOND LANGUAGE
4 Hrs. Lec. 1 Hr. Lab.
Prerequisite: Eng 41 or Eng 41A and 41 B
or equivalent. Advanced composition, grammar, and reading are emphasized. Satisfactory completion of this course qualifies the student for enrollment in requirement in communications.

## ENG 42A (2)

ADVANCED ENGLISH AS A SECOND
2 Hrs. Lec. $1 / 2$ Hr. Lab.
Prerequisites: Designated score on placement test or satisfactory completion of Eng 41 or Eng 418. The course Eng 42 ( 4 units) and is offered for the convenience of night students who cannot attend more than one night per
week. This course, together with Eng week. This course, together with Eng
42 B, is equivalent to Eng 42 . Not opento 42B, is equivalent to Eng
students who have compled Eng 42.
ENG 42B (2) ADVANCED
2 Hrs . Lec. $1 / 2 \mathrm{Hr}$. Lab.
of Eng 42A. This course completion ond half semester's work of Eng 42 (4 units) and is offered for the convenience of night students who cannot attend
class more than one night per week. Satclass more than one night per week. SanEng 42 B is the equivalent of Eng 42 and qualifies the student to enroll in Eng AB or Eng 51. Not open to students who
have completed Eng 42 . have completed Eng 42.

ENG 43A (3)
BEGINNING ORAL ENGLISH FOR BILINGUALS
3 Hrs. Lec.
Prerequisites: To be taken concurrently with Eng 40 or by permission of instructor. A conversational course designed
for the beginning ESL student. The for the beginning ESL student. The
course will cover the fundamentals of course will cover the fundamentals of
the English sound system. Listening and speaking will be emphasized through basic dialogs to be learned, through through questions to be answered orally.

ENG 43B (3)
INTERMEDIATE ORAL ENGLISH FOR BILINGUALS
3 Hrs. Lec.
Prerequisites: To be taken concurrently with Eng 41 or by permission of instruc
tor. A conversational course designed for the intermediate student. Students will utilize oral English by creating thei own dialogs and presenting them, and
by speaking on posters or other visual materials. Differences between the students' native language and English and how these differences affect the stu dents' oral English will be discussed.

## ENG 43C (3)

 ADVANCEDBILINGUALS
BILINGUALS
3 Hrs Lec.
${ }_{\text {Pren }}^{3 \text { Hrs. Lec. }}$ Lenisites: To be taken concurrently with Eng 42 or by permission of instrucior. An intensive course in oral American
English for students who have learned English for students who have learned
English as a second language. It is intended for students who may read well and have a good grasp of grammar bu who stil need more practice in manipu-
lating oral structures. Satisifies part of the graduation requirement in commun ications.

## ENG 45 (3)

UEGINNING VOCABULARY HILDING AND SPELLING FOR ESL 3 Hrs. Lec.
Prerequisites: This course may be taken concurrently with Eng 40 or by permis
sion of the instructor of vocabulary will be offered. Some spel ling techniques will be taught and vo cabulary will be used both in oral and written sentences.

## ENG 46 (3)

INTERMEDIATE VOCABULARY 3 Hrs. Lec.
Prerequisites: En consent of instryct 41 concurrently or ESL student will work on roots and pretixes, idioms, spelling, pronunciation, parts of speech, irregular verbs, and the
learning of new words. A lot learning of new words. A lot of class
practice will be given in oral and written use of new words and expressions.

## ENG 47 (3) BILINGUALS

3 Hrs. Lec.
Prerequisites: Eng 46, Eng 41, or by conon English-Spanish cognates, roots and prefixes, idioms, general reading vocabulary, subject matter (e.g., psychology history) reading vocabulary, parts of
speech, dictionary skills, word connotation and usage, and listening compre-
hension. The emphasis will be on writing and listening more than on oral work as well as on group work.

## ENG 49 (3)

## BILINGUAL

BILINGUALS
3 Hrs. Lec.
Prerequisite:
Prerequisite: Assignment by placement Eng 47. Course is designed to develo reading efficiency of bilingual student It will include a thorough analysis of vo cabulary. Individual interests and abilit dent's progress. Eighteen hours of la work will be required in addition scheduled class time.

ENG 50A (3)
NEADING DEVELOPMEN
3 Hrs. Lec.
Prerequisite: Eligibility by placemen test. A course for the student at the inte. instruction in vocabulary and compre hension. Items covered will includ phonics and word analysis, review o
syliabication, dictionary skills, prefixes syffixes, and individualized vocabula and rate building. Follows in sequenc rom Eng 54B. Eighteen hours of lat work will be required in addition
scheduled class time. Taught simulta neously with Eng 50B.

## ENG 50B (3) READING DEV

READING DEVELOPMENT
3 Hrs. Lec.
rerequisite: Eligibility by placemen est. A course at the upper intermedia ignated in Eng 50A. Includes addition instruction in study skills, outlining, pre viewing, summarizing and critical read ing. Eighteen hours of lab work will b
required in addition to scheduled clas time. Taught simultaneously with En OA.

ENG 51 (3)
THE COMM
3 Hrs. Lec.
Her. Lec. Assignment by pless lests or teacher recommendation. D signed to familiarize the student wil everyday communication processe and to develop his ability to respond
them critically. Includes analysis of typi cal media (TV, radio, newspapers, mas azines, and other popular literature) an participation in simulation games o
matters of social concern. Offers prai tice in the use of the library and in or and written communication, especial
in the writing of single and multiparagraph reports, essays and letters. This
course (or Eng 1A) must be taken in partial fulfillment of the IVC graduation requirement in communications.
ENG 52AB (3-3)
ENG 52AB (3-3) VILDING
3 Hrs. Lec.
A concentrated study of affixes, roots, word origins, language change, varie-
ties of meaning, the dictionary, and vocabulary in the various subject areas. ENG 54A (3)
ENG S4A
INTRODUCT
READING
Prerequisite: Assignment by placement test and recommendation of the instructor. Instruction in beginning reading for
those students who have not yet masthose students who have not yet mas-
tered the basic skills of phonics and tered the basic skills of phonics and
word analysis. Eighteen hours of individualized lab work required in addition to scheduled class time. Taught simultaneously with Eng 54B.
ENG 54B (3)
INTRODUCTORY DEVELOPMENTAL
Hrs. Lec
Prerequisite: Assignment by placement test and recommendation of the instructor. A continuation of the basic reading
skills presented in Eng 54A with additional work in phonics, comprehension, word analysis. and vocabulary building
for the student who for the student who does not yet qualify
for intermediate level reading (Eng 50A). Yor intermediate level reading (Eng 50A).
Eighteen hours of individualized lab work required in addition to class time.
Taught simultaneously with Eng 54 A
ENG 55AB (1-1)
SPELLING
Diagnosis of specific spelling problems nd prescription of remedies; investigaa basic spelling rules.

## WRITING FU

3 Hrs. Lec.
and instrie: Assignment by placement and instructor recommendation. Preparation for 56B. Intensive instruction in
grammar and punctuation and the writing of short ( $75-100$ word) paragraphs. Designed for the student needing to acquire basic writing skills and to overcome language transfer interference.
Follows in sequence from Eng Taught simultaneously with Eng. 56 B . Concurrent enrollment in Eng 50A is
strongly recommender strongly recommended.

## ENG 56B (3) WRITING FU

hiting fundamental
3 Hrs. Lec.
Prerequisite: Assignment by placement
tests tests and instructor recommendation.
view of grammar and punctuation and
nstruction in the writing of paragraph and topic sentences. Designed for the student needing to review basic writing kills. The course follows in sequence Eng 56 A . Concurrent enrollment in Eng 50 A is strongly recommended. ENG 57 (1)

## ENG 57 (1)

1 Hr. Lec.
Use of librar
Use of library facilities, especially the odical indexes, as a baoks, and perin any field. Techniques of preparing and presenting a research paper are in cluded. Work on an actual term paper is not required although students may use search (term) paper for other courses if they wish. Helpful to any individual from library to keep up to date on the latest developments and to compile a bibliography in his area(s) of interest.
ENG 60AC (1-1-1)
LANGUAGE LABORATORY
2 Hrs. Lab.
Prerequisite: Current enroliment in ESL rench or Spanish language course. In
dividualized language laboratory. Practice in listening comprehension and pronunciation. Supplementary course for beginning and intermediate levels in
ESL, French and Spanish. Thirty-six hours of assigned lab work. (Same as Fr 60 AC and Span 60AC)
ENVIRONMENTAL SCIENCE

## ENV SCI 5 (3)

3 Hrs. Lec.
The study of natural resources vital to man's existence. Emphasis on ment and problems associated with contamination of air, water, and soil. (Same as Ag 5 )

FIRE SCIENCE

## FIRE SCI 50 (2)

## PRACTICE

2 Hrs. Lec.
course designed for volunteer firevide a. This course is designed to provide all the basic operational skills
needed by firemen in a volunteerservice.

## FIRE SCI ${ }^{70}{ }^{(2)}{ }^{(2)}$

2 Hrs. Lec.
he fundamentals of officer leadership fire service personnel to the principles of
company supervision, personnel mangement, evaluation and training.

## FIRE SCI 71 (2)

## Hrs. Lec.

Prerequisite: Fire Sci 70. This course is a continuation of Fire Management 1 , and principles of company supervision, personnel management, and evaluation and training techniques with a particular emphasis on methods of developing, utiliz-
ing instructional materials, and efficient teaching methodology.

## FIRE SCI 72 (2)

FIRE MANA
2 Hrs. Lec.
This course provides the specific managerial skilis required of a fire company unit. It includes methods and procedures of manpower management from routine through emergency conditions and situations in the fire service unit.

FIRE SCI 73 (1)
VOLUNTEER INSTRUCTOR
TRAINING
1 Hr. Lec.
Designed for volunteer fire personnel with a responsibility for training. Emphasizes the teaching and evaluation of manipulative skills employed by the fire service.
FIRE SCI 81 (3)
NTRODUCTION TO FIRE SCIENCE
Hrs. Lec. pression equipment; characteristics and behavior of fire; fire hazard properties of construction; extinguishing agents;
basic fire fighting tactics; basic fire fighting tactics: public relations.
FIRE SCI 82 (3)
FIRE FIGHTING TACTICS FIRE FIGHTING
$3 \mathrm{Hrs}$. Lec.
Review of fire chemistry, equipment, Review of fire chemistry, equipment,
and manpower; basic fire fightingtactics and strategy; methods of attack; preplanning fire problems

FIRE SCI $83(3)$
FIRE HYDRAULICS
FIRE HYDR
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 ormulas and mental calculation to hy underwriters' requirements for pumps.

FIRE SCI 84 (3)
FIRE APPARATUS AND EQUIPMENT 3 Hrs. Lec.
Driving laws, driving technique, construction and operation of pumping pecialized equipment, apparatus main tenance.
FIRE SCI 85 (3)
IRE COMPANY ORGANIZATION
3 Hrs. Lec.
Review of fire department organization;
fire company organization; the company
officer; personnel administration; com-
ance; training; fire prevention; fire fight
ing company; fire fighting capability
FIRE SCI 86 (3)
RESCUE PRACTICES
3 Hrs. Lec.
Rescue practices, the human body, emergency care of victims, childbirth, artificial respiration, toxic gases, chemcals and diseases, radioactive haza

## FIRE SCI 87 (3) <br> UND

## Hrs. Lec.

Prerequisites: Fire Sci 81 or employment with a fire protection agency. Fire preveying and mapping procedures; recogneying the hazard; engineering a solution; enforcing the solution; public reations.
FIRE SCI 90 (2)
2 Hrs. Lec.
Prerequisite: Suggested completion of Fire Sci 83 or Fire Sci 84. A basic course which provides the background in general use and operation of pumping and
related equipment.
FIRE SCI 95AE ( $(1 / 2-1 / 2-1 / 2-1 / 2-1 / 2)$
. 2 Hrs. Lec. . 8 Hrs. Lab.
This course provides students with general information, techniques and strategies in dealing with flammable liquids and gases. Students are provided with
particular exercises in controlling and particular exercises in clammable liquid and gas fires at selected burn sites under controlled supervision.

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 re-
quirement in various majors. These high
school courses will not count as college credit toward graduation. Placement will be made by examination and/or consent Language Department 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. Students are strongly advised to see the
betore enroling.
Students who have recently studied French for three years in high school are
recommended to take Fr 3 and Fr 10 .

## FR 1 (4)

4 Hrs. Lec. HRENCH
4 Hrs . Lec. 1 Hr . Lab.
An intensive beginning course stressing
the basic skills of listening comprehension, speaking, reading and writing to develop control of the sounds and the basic forms and structure of French. In-
troduction to aspects of French culture troduction to aspects of French culture
and civilization. Students must plan for and civivization. Students must plan for
an additional hour of individual language laboratory by arrangement. No open to students who have comple
three years of high school French.

FR 1A (2)
$2 \mathrm{Hrs}$. Lec. $1 / 2 \mathrm{Hr}$ L Lab.
This course is one-half the content of the
regular Fr 1 course regular Fr 1 course. Completion of Fr 1 A
and 1 B will be the equivalent of Fr 1 , and the total of 4 units. Students must plan
for an additional one-hal hour or for an additional one-half hour of indi-
vidual language laboratory by arrangevidual
ment.

## FR 1B (2)

ELEMENTARY FRENCH
2 Hrs. Lec. $1 / 2 \mathrm{Hr}$. Lab.
Prerequisite: Fr 1 A . A continuation of Fr one-half hour of individual additiona one-half hour of individual language

## FR 2 (4) <br> \section*{4 Hrs. Lec. 1 Hr. Lab.}

Prerequisite: Fr 1 or placement by exam ination. Continues the development of all four language skills, emphasizing vo
cabulary building, increasing fluency and control of correct pronunciation, basic forms and structure. Students
must plan for an additional hour of indimust plan for an additional hour of individual language laboratory by arrange-

FR 2A (2)
2 Hrs. Lec. $1 / 2 \mathrm{Hr}$. Lab.
Prequis.
.
Hrerequisite: Fr . Lab. 1 B or placement by
Pramination and examination and consent of instructor
This course is one-half the content of the
regular Fr 2 course. Completion of $\mathrm{Fr} 2 A$
and 2 B will be the equivalent of Fr 2 , and the total of 4 units. Students must plan for an additional one-half hour of indi vidual language laboratory by arrange ment.

## ELEMENTARY FRENCH

## 2 Hrs. Lec. $1 / 2$ Hr. Lab. Prerequisite: Fr $2 A$. A continuation of $F$

 2A. Students must plan for an addition one-half hour of individual languag aboratory by arrangement.
## FR 3 (4)

NTERMEDIATE FRENCH
4 Hrs . Lec. 1 Hr . Lab
rerequisite: Fr 2 or placement by exam.
nation. An intermediate course givin. nation. An intermediate course giving
intensive practice in speaking, unde: tanding, reading and writing to furthe evelop control of the sounds and basi structure of grench. A thorough reviex of cultural material, short stories, plays poetry or novels; guided composition and oral practice. Students must plan fo uage laboratory by arrangement.

## FR 4 (4)

 $4 \mathrm{Hrs.Lec}$.1 Hr Lab. Prerequisite: Fr 3 or placement by exam ination. Continuation of intensive pratice in speaking, understanding, readin tice in speaking, understanding, reading ary materials. Vocabulary and oral written correspondence stressed; ou side reading with oral and written re
ports. Students must plan for an add tional hour of individual language labol atory by arrangement.

## FR 5 (2)

FR 5 (2) AND GRAMMAR REVIEW
 Intermediate French Reading an
Grammar Review Lab: Independent an ndividualized study. SRA reading con
prehension exercises, speed reading ex prehension exercises, speed reading e,
ercises, vocabulary development an research. Supplementary listening corn
prehension and pronunciation exerciso prehension and pronunciation exerciss
on tape. Independent grammar revie on tape. Independent gram
with self-checking quizzes.

## FR 10 (3) FRENCH

3 Hrs. Lec.
Prerequisites: Fr 2 or two years French in high school or by examinatio
and consent of instructor. (It is recon mended that Fr 10 be taken concurren
are developed through listening exercises, directed conversations on asmagazine articles, current topics, simple dialogues and plays. Emphasis on contemporary life in countries where French is spoken. Student must plan for an addi-
tional hour of individual language laboratory by arrangement.

## FR 11 (3)

FRENCH

## FRENCH 3 Hrs. Lec

Prerequisite Fr 3 ar of French in high school or by examination and consent of instructor. (It is recommended that Fr 11 be taken concurrently with Fr 4.) Continuation of Fr 10. Student must plan for an additional hour
of individual language laboratory by orrangement.
FR 20A (2)
FRENCH
PERFORMANCE
1 Hr. Lec. 3 Hrs
Prerequisite: Fr 2 or two years of high school French or consent of instructor.
Oral reading and performance of French plays and skits. Includes vocabulary development and fluency in the spoken
language. One selection of a one-act language. One selection of a one-act
play or skit will be studied in-depth and performed for students of French.

## FR 20B (2)

FRENCH DRAMA
1 Hr. Lec. 3 HRE LiNG AND
Prerequisites: Fr 20A or equivalent experience of Fr 2 and consent of instrucFR 40 (3)
INTRODUCTION TO FRENCH

## 3 Hrs. Lec. AND CULTURE

An introduction to French civilization and culture. The major currents and characteristics of French culture and its
development as expressed through the centuries in literature, art, philosophy, of the, science, politics, history and life
people from pre-history to the 20th century. Conducted in English.
(Same as Hum 40)
FR 41 (3)
INTRODUC
INTRODUCTION TO FRENCH
CIVILIZATION AND CULTURE 3 Hrs. Lec.
Cultural aspects and developments of French speaking people, their customs,
traditions, literature, art, music, philosophy, government and economy Brief studies of Canada, African countries,
Tahiti, Haiti Tahiti, Haiti, Louisiana, Martinique,
Guadalupe. Emphasis on the 20th tury. Conducted in English. (Same as Hum 41)

## R 51 (3)

CUNTURE, CUISINE AND 3 Hrs. Lec.
An introduction to French culture, cuiDiscussion demation around the world ation of native French dishes. Includes introduction and practice in basi phrases and vocabulary for travel as wel as travel tips presented by lecture, guest Field trip to French restaurant. Class materials fee required for food and field excursion.
FR G0AC (1-1-1)
LANGUAGE LABORATORY

LANGUAGE
2 Hrs. Lab.
Prerequisite: Current enrollment in ESL French or Spanish language course. Intice in listening comprehension and pronunciation. Supplementary course for ESL, French and Spanish. Thirty-six hours of assigned lab work. (Same as Eng 60AC and Span 60AC)


## GEOG $1{ }^{1}{ }^{(3)}$ PHYSICAL GEOGRAPHY

## 3 Hrs. Lec.

to the physical charac teristics of the earth. Topics include: cli-
mate, land forms, natural vegetation and the water and mineral resources of the earth.
GEOG 2 (3)
CULTURAL GEOGRAPHY
3 Hrs. Lec.
An introduction to the regions and cul tures of the world. Emphasis on the contemporary demographic, linguistic, religious, and economic characteristics of major regions 1 .
GEOG 3 (3)
Hrs. Leocic geography
The geography of commercial products. Distribution of production as related to Climate, surface features, soils, labor
supply and market areas, and the routes along which products move to consum ing areas.

GEOL 1 A
PHYSICAL GEOLOGY
3 Hrs. Lec. 3 Hrs. Lab.
Prerequisite: One year of high schoo
science or permission of instructor structive and constructive work of wate
ice and wind; earthquakes and the rocks and rock formations; mineral resources, coral islands; origin and history of the larger topographic features
GEOL 10 (3)
LIFE OF THE PAST: AN
INTRODUCTIONTO
PALEONTOL
3 Hrs. Lec.
rerequisite: One year of high school science. Biological principles of evolutionary development and types of fossils ecorded in the rocks from ancient times age of dinosaurs and other reptiles; the age of birds; the age of mammals. (Same as Zool 10)
GEOL 11 (3)
GENERAL GEOLOGY: AN NTRODUCTION TO GEOLOGY
3 Hrs. Lec.
school science recommended. The basic elements of physical and historical geology. Study of rocks and fossils; their volcanics, tectonics, earthquakes and geologic time. The building of mounciers and their activities, climatic chang es through time, the changing land-
scape. Emphasis on the geology of the Imperial Valley. A general education course closed to those who have cred GEOL 12 (3)
NTRODUCTION TO HISTORICAL 3 Hrs. Lec.
Prerequisite: One semester of high school science recommended. Origin and evolution of the earth, solar system
and universe. Measurement of geologic aime: the geologic periods. Typical fos-
sils and organic evolution. Survey of sils and organic evolution. Survey of
paleogeography and paleoecology. Biopaleogeography and paleoecology. Bio-
logical and geological principles in a historical perspective. Emphasis on pas cation course closed to those who have
credit in Geol 1B, Historical Geology.

GEOL 12L (1)
INTRODUCTION TO GEOLOGY LAB 3 Hrs. Lab.
Prerequisites: Geol 12 or concurrent registration in Geol 12. Origin and evo-
lution of the earth, solar system and universe. Measurement of geologic time:
the geologic periods. Typical fossils and the geologic periods. Typical fossils and
organic evolution. Survey of paleogeogaphy and paleoecology. Biological and spective. Emphasis on past events in Imperial Valley. A general education
course closed to those who have credit in Geol 18.

GEOL 13 (3) GEOLOGY OF CALIFORNIA
3 Hrs. Lec.
Prerequisites: One semester of high chool science or permission of instructor. A study of geologic history of Caliornia, the geology orits physiographic provinces and the origin and develop
ment of its scenic landscapes. Land rms, plate tectonics, earthquakes heir cause and prediction.
GEOL 14 (3)
GENERAL PALEONTOLOGY,

## AND MAN <br> Hrs. Lec.

Prerequisites: Geol 10, Geol 12, or Zool 18. The history of life on earth from miThe origins and evolution of invertebrates, vertebrates and plant life. Study of extinction and its causes. Emphasis on paleoecology and knowledge from he past applied to the present and fubution. A general education course inended for non-majors.
GERMAN

## GER 1 (4) <br> GER 1 (4)

4 Hrs. Lec. 1 Hr. Lab.
Pronunciation, practice in speaking, ingrammar of the German language. The student must plan for an additional half hour of individual language laboratory.

## GER 1A (2)

ELEMENTARY GERMAN
2 Hrs . Lec. $1 / 2 \mathrm{Hr}$. Lab.
Beginning course of graded lessons acstructure and pronunciation through practice in speaking, reading and writng. This course is the first halfo of the first and Ger 18 is the equivalent of Ger 1 ,a total of 4 units. Students must plan for an additional one-half hour of individual

## GER 1B (2)

ELEMENTARY GERMAN
2 Hrs. Lec. $1 / 2 \mathrm{Hr}$. Lab.
Continuation of Ger 1 A . Students must continuation of Ger 1 A . Students must
plan for one-half hour of individual language laboratory by arrangement.

## GER 2 (4)

ELENTARY GERMAN
Prerequisites: Ger 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. German culture and civilization wor an additional ine-half hour of individual language laboratory by arrange-

GER 10 (3)

## GERVERSA <br> ional german

3 Hrs. Lec.
Prerequisites:
Ger 1 and 2 or by examination and consent of instructor. Conver-
sational skills developed through oral drills, laboratory assignments and guided conversations on assigned topics.
Practice in the spoken language; pracPractice in the spoken language; prac-
tical and diplomatic vocabulary, simple dialogues and plays. Meets German conversation requirements for enrollment in upper division courses. Studen
must plan for an additional hour of individual language laboratory by arrangement.
GER 11 (3)
CONVERSA
conversational german
3 Hrs. Lec.
Prerequisites: Ger 2 or Ger 10. This dents must plan for two additional hours of individual language laboratory by arrangement.

GERONTOLOGY

## GERONTOLOGY 1 (3) FUNDAMENTALS OF

## 3 Hrs . Lec.

An introduction to aging including the physical, psychological and socio
cal changes in the aging process. GERONTOLOGY 2 (3) 3 Hrs. Lec.
The interactions of group processes in
the family and community which influthe family and community which influence our society's attitudes toward the
aging process. The institutional, enviaging process. The institutional, envi-
ronmental and cultural diversities of ou society encountered in dealing with the aging.
GERONTOLOGY 3 (3)
PSYCHOLOGY OF AGING
3 Hrs. Lec.
A developmental approach to the study patterns in aging; changes in sensation perception, and cognition processes; and the biological and environmental in
fluence on behavior in older adults.
GERONTOLOGY 4 (3)
BIOLOGY
$3 \mathrm{Hrs}$. Lec.
The course is designed to acquaint the tudent with the structural and func tional changes that occur in the human clines, losses and biomedical changes
ssociated with the various systems of he body will be covered. Current bio duced. Diseases related to aging, witt their related symptoms and treatment will be discussed. The psychologic and social implications of biologica changes, defic
GERONTOLOGY 5 (3)
AGING AND THE QUALITY OF LIFE 3 Hrs. Lec.
The course is designed to show that liit for the aged is not just existence, but caa
be a vital, rewarding and fulfilling lift be a vitai, rewarding and fulfilling lit have been labeled as aged by our so ciety.

## GERONTOLOGY 11AB (2-2)

Hr. Lec. 6 Hrs. Lab.
Hr. Lec. 6 Hrs. Lab.
Prerequisite: Geron 1 and one of the fo owing which may be taken concurrent Geron 2, Geron 3 or Geron 4 . Field ex perience enabling the student to apph
theory in settings serving the older adulf senior centers, extended care facilities governmental agencies, etc. Placemen
will be in the student's area of special zation.

GRAPHIC ARTS
G.A. 10 (2)
G.AAPHIC COMMUNICATION I 1 Hr . Lec. 3 Hrs. Lab. recommended. A course designed to a guide for the preparation of art and th mechanics for reproduction in th graphic arts field. The emphasis is
advertising and studio skills. This cours will cover newspaper ads, brochure la out, pasteup, camera-ready art wor color separation and design coordin G.A. 11 (3)

GRAPHIC COMMUNICATION
2 Hrs. Lec. 1 Hr. Lab.
Prerequisite: G.A. 10. A continuation the preparation of art and mechanics $t$ reproduction in the graphic art fiel skills. An in-depth study of reprodul tion art in conjunction with offset prin ing. Student must plan for
hours by arrangement.

## G.A. 12 (3)

COMPOSITION, LAYOUT AND
2 Hrs. Lec. 3 Hrs. Lab.
2 Hrs. Lec. 3 Hrs. Lab.
Prerequisite: G.A. 10 . A course designt to cover basic methods of compositio
to as it applies to the printing industry, it paste-up techniques. This course

Cover effective uses of related material, techniques, creative thinking and innovative practices rojeug and laboratory onstrations,
G.A. $20(3)$
OFFSET PRINTING I

3 Hrs. Lec.
Study of the principles of offset pressin operation of offset presses under $11 x$ 17 inches. Students print simple offset work, color work and close-register. This course will also offer instruction in
the theory of offset press trouble shootthe theory of offset press trouble shoot-
ing, including standard trouble shooting procedures.
G.A. 21 (3)

2 Hrs. Lec. 1 Hr. Lab.
Prerequisite: G.A. 20 . An advanced course in lithographic presswork which
allows the student to apply the lithographic theory and experience he has gained by operating equipment using
sheets $4 \times 6$ in. up to $11 \times 17$ in. with emphasis in loading and setting feeds, conveyor mechanism, and guides, the proper preparation of stock and packing
clamps, the mounting of plates clamps, the mounting of plates and
blankets, the setting of dampeners, ink blankes, fountain, and grippers. Pressure rodjustments are stressed. Camera operadtons for the lithography process are in-
troduced. Student must plan for two troduced. Student must plan for tw
additional hours by arrangement. G.A. 22 (3)

2 Hrs . Lec. 2 Hrs . Lab
Current techniques and equipment in photography and platemaking as final preparation before offset printing. Cov-
ers effective use of materials and techniques in darkroom, stripping and platemaking departments.

## G.A. 23 (2)

## BINDERY, CUTTING AN

DISTRIBUTION
1 Hr. Lec. 2 Hrs. Lab.
ing operations on printed in finish-
training in the operation of folding ma-
chines, slitting, perforating, and trouble-
shooting, training in the
shooting, training in the operation of
hand and power cutters, special trim-
ming, trimming of booklets and printed matter, cutting of blank stock, collating punching, jogging and padding holecedures.
G.A. 30 (3)

GRAPHICS PLANT OPERATION AND
MANAGEMENT FUNDAMENTALS
3 Hrs. Lec. 2 Hrs. Lab
dent with all phases of acquaint the stushop operation. The course emphasis
will be production control, cost control eral management techniques used in the day-to-day operation. Covers effective use of techniques, creative thinking, innovative practices through the use of projects, problem presentations and
experiences directly related to the subject matter.


The Health Aide Program (one semes ter in length) prepares the student to receive a Certificate of Completion from the college in one of five different spe-
cialty areas and to be employed as an cialty areas and to be employed as an
Aide in an agency according to the specialty area.

1. Hospital Nursing Assistant: For employment in a general acute care hospital, a convales
2. Home Health Alde For employment in a clinic, hospital or health department wh.
3. Mental Health Aide: For employment in a psychiatric
hospital, day treatment center crisis team, drug or alcohol detox ification center
4. Developmental Disability/Menta Retardation Aide: For employment at a work training er's aide for Special Education classes, as a house parent at community living center or group home, for respite care in client'
homes within the community.
5. Patient Education Technician For employment in a hospital or department so as to assist with patient education.
Students are admitted each semester An admissions committee will review all the college counseling center) is recommended, since the number of students who can be admitted is limited. Not all specialty areas will be taught each se-
mester. Applicants should check with the Counseling Division before making application. Admission requirements inthe college placement tests and orientation conference with a member of the
Health Aide facility. Applicants with prior education in nursing (ADN, LVN or Health Aide) may apply for credit by examination and/or advanced placement This will be determined on an individual
basis. A grade of $C$ or better in each of
the Program courses is required for successful completion of the Health Aide
Program. An overall 2.0 grade is required in order to receive a Certificate of Completion. Transportation to the area healu agencies is the responsibility
of the student.

CURAICULUM

## HA 15A. HA 15B. HA 15. HA 15D HHA 15 E

 (1)

HA 15A (9) 3 Hrs. Lec. 18 Hrs. Lab.
$\qquad$ Aide Program. A course for those in-
ending to work as aides in a variety of health agencies - acute hospital, convaescent hospital, community health abled/mental retardation. Seven (7) weeks will be taught as a "core course for all enrolled. Topics will include th legal and ethical responsibilities, com munication skills, community resources or health care. Basic knowledge of nu frition, personal hygiene, safety, comwill be studied. College laboratory per ods will allow for practice in the proce dural skills needed in these areas. Nin oratory experiences in various health agencies according to the student's are of chosen specialty. Weekly lecture-dis ussion classes wir continue within the will consist of "sharing" and review classes at the college for all enrolled. Students who complete the course wil receive a standard Red Cross first Aid pulmonary resuscitation (CPR).
Hospital Nursing Assistant speciatty Students will receive clinical laboratory experiences at Valley Convalescen Hospital, Calexico Hospital, Pioneer ity Hospital (approximately 2 week each facility). Weekly lectures will con tinue within the specialty area. A studen ant portion will receive certificsio from the State of California as a Nurse Assistant.
HA 15B (9)
COMMUNITY HEALTH AIDE
3 Hrs . Lec. 18 Hrs . Lab
or general overview of course, see HA

Community Health Aide specialty area of the Health Aide course (9 weeks): Stu dents will receive clinical laboratory ex-
periences in community health at local home health agencies. Weekly lectures will continue in the specialty area. Stu-
dents will State of California as a Home Health Aide
HA 15C (9)
MENTAL RETARDATION AIDE
3 Hrs. Lec. 18 Hrs. Lab.
For general overview of course, see HA
15 A , paragraph 1 15A, paragraph 1
Developmental Disability/Mental Retardation Aide specialty area of the Health Aide course ( 9 weeks): For those students planning to work in a variety of developmentally disabled and/or mentally retarded. Topics will include the definitions of developmental disabilities, diagnosis, causation, genetics, and family counseling, role of allied disciplines, and resources available will be discussed as they relate to the developmentally disabled and/or mentally re-
tarded infant, pre-school child, elementary school age group, junior high and hign school ages, and the adult. Each handicapping condition(s) from thefound, severe, moderate to mild. Final
for sessions will review the role of the developmentally disabled/mentally retarded person, and the role of the health aide.
Students will receive supervised clinical laboratory experiences at the Imperial Valley Center for Exceptional Childran (2 weeks), Activity Center ( 2 weeks), and Center (2 weeks). One week will be devoted to field trips to other area agencies.

## HA 15D (9)

MENTAL HEALTH AIDE
3 Hrs. Lec. 18 Hrs. Lab.
3 Hrs. Lec. 18 Hrs. Lab.
For general overview of course, see HA
Mental Health Aide specialty area of the
Health Aide course $(9$ weeks): Students Health Aide course ( 9 weeks): Students
will receive supervised clinical laboratory experience at the Imperial County Mental Health Services - In-Patient Hospital, Day Hospital, Mobile Team and Imperial Manor. Weekly lecture will con-
tinue within the specialty area.
HA 15E (9)
PATIENT EDUCATION TECHNICIAN Hrs. Lec. 18 Hrs. Lab.
15A, paragraph 1 .
paragraph 1.
Patient Education Technician specialty
of the Health Aide course ( 9 weeks) : Stu-
dents will have classes in library tech
nology including setting taining equipment such as video tape motion picture projector and filmstrip machines. Audiovisual materials avail what to obtain from as well as how people/places will be discussed as will the organization, cataloging and distribution of AV materials. Included will be phasis on prevention and rehabilitation. Case management, family counseling role of allied disciplines and resource vo the illness being studied Hey relat ing will be a part of the clinical experil ence. The development of creative skills in presenting educational material to pa up teaching done by licensed nurses will be stressed. The ordering and categorizing of patient teaching supplies, office skills (with emphasis on organization included.

Nursing - Continuing Education - Prospective students are advised to
check with the college previous to each ion courses to be offered Nuing educa are offered periodically as community health agency and health personne needs are identified. A materials and
HA 38 ( $1 / 2-3$ )
HIS YEAR'S ISSUES IN HEALTH
(Same as RN 38, VN 38)
HA 40 (2)

## TECHNIQUE

1.8 Hrs. Lec. 3 Hr . Lab
prerequisite: HA 15 or equivalent and permission
$40, V N 40)$
gency childbirth. Course shall qualify Red Cross First Aid Certificate.

## HE ${ }^{3}$ (2) HEALTH

SERVICE EDUCATION - MILITARY
Prerequisite: The satisfactory comple tion of one year or more in the militan wishing credit for military service mus present his DD214 or equivalent sul porting document to the Admissio Office and register for the credit. If th credit and does not submit verificatio of service, he will be dropped as a No Show and will not receive credit. HE does not count for units toward V.A. of
full-time student. These are not contac hours. May be taken only once.

HM 35 (5)
HEAVY EQUIPMENT OPERATION AND MAINTENANCE
3 Hrs . Lec. 6 Hrs Lab
3 Hrs . Lec. $6 \mathrm{Hrs}$. Lab
The selection,
and minor repair and adiustenance heavy equipment including hydraulii and pneumatic operations and safety including dozer, backhoe, graders, skip HM 36 (5)

## ISMSSION SYSTEMS

 3 Hrs. Lec. 6 Hrs. Lab.Prerequisites: Either $\mathrm{Hm} 35, \mathrm{Ag} 33 \mathrm{~A}, ~ A T$
51 , or permission of instructor. The study and repair of power transmittin devices, such as standard transmis brakes, drvie train and tracks.

## HEALTH EDUCATION

## HE 1 (2)

EALTH EDUCATION
2 Hrs. Lec.
Fundamentals of healthful living de-
signed to provide scientific mation, and prove scientific health inforand practices. Includes the studty 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 commun ity health and safety.
HE $2(3)$
FIRST AID
3 Hrs. Lec.
The immediate and temporary care giv

## HIST 8A (3) THE AMERICAS

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 Amelopment through the and colonial independence are discussed. This course together with Hist 88 will satisfy graduation requirements in American institutions.

## HIST 8B (3) HISTORY OF

## HISTORY OF THE AMERICAS

 A survey course in which the history ofthe United States, Canada and Latin
America are considered as an integrated America are considered as an integrated
whole. The area of study covers ninewhole. The area of study covers nine-
teenth and twentieth century development of the Americas. Consideration is given to the Constitution of the United
States. This course together with Hist States. This course together with Hist 8 A
will satisfy graduation requirements in will satisfy graduatios
American Institutions.
HIST 10 (3)
3 Hrs. Lec.
1900 to the modern Russia from about torical backeround day, showing the hisspecial attention to the Russian revolu-
tion of 1917, the consolidation of the
Stalinist dictatorship, foreign and do-
mestic policies of the Soviet Union since
the Revolution, and a discussion of the
the Revolution, and a discussion on then the challenge of Russia today.
HIST 17A (3)
UNITED STATES HISTORY
3 Hrs. Lec.
A survey of the political and social development of the United States from the seventeenth century to 1865. This
course and either Hist 17 B or Poly Sci 2 will meet graduation requirements in American Institutions.

## HIST 17B (3)

UNITED STATES HISTORY
3 Hrs. Lec.
A survey of the political and social matuof the Civil War to the from the end course and either Hist 17A or Poly Sci 1 will meet graduation requirements in
American Institutions. May be taken before Hist 17A.
HIST 30 (3)
MEXICO AND THE AMERICAN SOUTHWEST
3 Hrs. Lec.
A one-semester survey of Mexico from the early nineteenth century, the inde-
pendence movement, the Mexican pendence movement, the Mexican
American War and the development of American War and the development of
Mexico and the American Southwest in Mexico and the
the last century.

HIST 40 (3)
PORTUGAL
3 Hrs. Lec.
(Same as Span 40)
HIST 41 (3)
CIVILIZATION OF SPANISH AMERICA AND BRAZIL
3 Hrs. Lec.
(Same as Span 41)
(Same as Span 41)

HONORS 21 (1-2
HUMANITIES DIVISION HONORS PROGRAM
1-2 Hrs. Lec.
HONORS 22 (1-2)
BONORS 22 (1-2)
BUSINESS DIVISION HONORS PROGRAM
1-2 Hrs. Lec.
HONORS 23 (1-2) SOCIAL SCIENCE DIVISION HONORS PROGRAM
1-2 Hrs. Lec.
HONORS 24 (1-2
BEHAVIORAL SCIENCE DIVISION 1-2 Hors PROGRAM
1-2 Hrs. Lec.
HONORS 25 (1
HONORS 25 (1-2)
AUTOMOTIVE-AGRICULTURE TECHNOLOGY DIVISION HONORS PROGRAM
1-2 Hrs. Lec.
HONORS 26 (1-2
ENGLISH DIVISION HONORS PROGRAM
1-2 Hrs. Lec.
1-2 Hrs. Lec.
HONORS 27 (1-2) SCIENCE DIVISION HONORS 1-2 Hrs. Lec.
HONORS 28 (1-2)
MATHEMATICS-ENGINEERING DIVISION HONORS PROGRAM 1-2 Hrs. Lec.
HONORS 29 (1-2) AND RECREATICAL EDUCATION AND RECREATION DIVISION 1-2 1-2 Hrs. Lec
HONORS 21-29
COURSE DESCRIPTION
Prerequisites: Sophomore standing and admission to the program. Individua study with special guidance of instruca major area offered by honor students in students requesting study in depth in
particular area. By request of students proval of division chairperson. Interdisciplinary conference, with readings, discussion, reports.
HONORS 30AB (1-6) FIELD STUDY Lec./Lab. by arrangemen Regular class instruction for honors studivision. Interdisciplinary conference with readings, discussion, and reports. Travel to on-site study areas may be recurriculum may be requested by the students and/or instructors, but must be approved by the appropriate division chairperson and the Vice President for cademic services. HONORS $31(1-7)$
NURSING DIVISION HONORS PROGRRAM
Lec./Lab. by arrangement Perequisites: Admission to ADN, VN or HA Program and permission of Program or students who will take only a portion of one of the Registered Nursing, Vocational Nursing or Health Aide courses.

## HUMANITIES

## HUM 1A (3) ${ }^{(3)}$ MAN AND THE ARTS

3 Hrs. Lec. Prerequisite: Hum 25 or eligibility for
Eng 1A. A course in the unified humaniies in which man is the center: "his problems, his wonderings, his confusion of experience, his experience with
beauty." The course covers Greek, Roman and Medieval periods reflected in the arts. Conducted by lectures, films, field trips and discussions.

## HUM 18 (3)

(3) THE ARTS

3 Hrs. Lec. Prerequisite: Hum 25 or eligibility for Eng 1A. A course in the unified humanities in which man is the center: "his problems, his wonderings, his confusion
of experience, his experience with of experience, his experience with
beauty." The course covers the period of he Renaissance through the 20th Cenury. Conducted by lectures, films, field rips and discussions. HUM 3 (2)
NTRODUCTION TO FILM HISTORY 1 Hr. Lec. 2 Hrs. Lab.
(Same as Eng 3, MPP 3)
HUM 4A (2)
FILM CRITICISM: WESTERNS,
1 Hr . (Same as Eng 4A, MPP 4A)

HUM 4B (2) ${ }^{\text {FILM }}$ CRITICISM: HORROR, FANTASY, SCIENCE FICTION 1 Hr. Lec. 2 Hrs. Lab.
(Same as Eng 4B, MPP 4B)

HUM 4C (2)
FILM CRITICISM: GANGSTERS,
1 POLITICS, SOCIAL PROTEST
1 Hr Lec. $2 \mathrm{Hrs}$. Lab.
(Same as Eng 4C, MPP 4C)
HUM 4D (2) EXPERIMENTAL FILMS
1 Hr Lec. $2 \mathrm{Hrs.Lab}$.
(Same as Eng 4D, MPP 4D)
HUM 17 (3)
MEXICAN POPULAR FOLK ARTS 3 Hrs. Lec.
Mexican society as it is reflected in their
arts, beliefs, customs, dances, fiestas legends and songs. Class reports and discussion on the composite Mexican
will be included. Conducted in English will be included. Conducted in English
by lecture, multi-media, guest lecturers by lecture, multi-media, guest lecturers
and field excursions to Mexicali. (Same as Span 17)
HUM 25 (3)
3 Hrs. Lec.
An exploratory course designed to introstudy in the Humanities (Art, Architecture, Drama, Dance, Literature, Linguistics, Music) and to help the student relate his life to humanistic values in the
world as they are demonstrated in the various media. Presented by a team of IVC faculty and guest lecturers. Class sessions conducted by lecture, field
trips, film, and discussion.

## HUM 26 (3)

## 3 Hrs. Lec.

Prerequisites: Hum 25 with a grade of $B$ or better or eligibility for Eng 1A. An advanced course dealing extensively in music, drama, visual arts and architec-
ture. Humanistic and interdisciplinary approach to study man's reflection of himself in creative expression. Research paper or creative project required. Con-
ducted by lecture, discussion, field trips, films, and guest lecturers.
HUM 40 (3)
NTRIODUCTION TO FRENCH 3 Hrs. Lec.

HUM 41 (3)
INTRODUCTION TO FRENCH CIEILIZATION AND CULTURE BEYOND FRA
3 Hrs. Lec.
${ }_{\text {(Same as Fr 41) }}$

Human Relations curriculum win Th Associate of Arts degree has been de igned to prepare students for employ counselor aides, vocation and group tion aides, teacher aides, eligibility workers, social service technicians and ther pre-professional positions in the people-to-people services. These ser vices are used by youth and adult corectional institutions, welfare and vocational rehabilitation agencies, menta hospitals, state employment centers, centers.
HR $8{ }^{(3)}$ (3) AND CAREER
DEVELOPMENT
3 Hrs. Lec.
This course examines the process a stu dent would follow in making a realistic enter professions involving helping rela ionships such as education, social work, counseling, psychology, com tion to students who are undecided about their own future would profit from e course. Self-awareness will be ap ests, aptitudes, abilities, limitations, needs and life goals. Career awareness will be facilitated by exploring the world of work in terms of occupational out-
ook, wages, training required, opporunities for advancement and life styles. Material testing fee payable during first
week of instruction. (Same as Psych 8)

HR 9 (3)
INTERVIEWING AND COUNSELING 3 Hrs. Lec.
A study of th study of the theory, process and practhe community service situations. The ourse is designed to assist the student in gaining knowledge for the developin all kinds of situations. Theories of counseling and basic helping skills will be presented, demonstrated and prac
ticed. (Same as Psych 9)

## \section*{HR 10 (3)} <br> SMALL GROUP LEADERSHI

 3 Hrs. Lec.Gaining of knowledge and skills in small group leadership leading to effectiveness in interpersonal relations and in-
creased understanding of small group behavior, with emphasis on facilitating
effective communication. (Same as effective
Psych 10)

HR 11AB (3-3)
1 Hr Lec. 6 Hrs. Lab. field experien per week
Prerequisites: HR 9, Psych 1A, Sociol or concurrent enroliment. A course signed to provide opportunity for
student in Human Relations to experiences under supervised cond tions such as those involving ment health, child development, youth c
rection, welfare, homes for the negle rection, welfare, homes for the neglec
ed, homes for the aged and education settings. Students will be supervised by credentialled instructional staff and pro fessionally trained personnel. HR/Psy either to continue with the HR/Psy 11A experience or to elect an assign ment at another agency or location. H rently with HR/Psych 11B. (Same Psych 11 AB ) This course will be offer on a credit (Cr) basis only
HR 13AB (3-3)
THE PARAPROFESSIONAL IN COUNSELING
2 Hrs. Lec. 3 Hrs. Lab
(Same as Psych 13AB)
HR 61 (1)
COLLEGE 1 Hr . Lec.
A course
A Course in study which is designed to assist the stu dent in adjusting to the demands of col lege study and the improvement o learning skills. Includes a survey of th learning processes and the developme texts, taking useful notes, outlining scheduling. learning to concentrate and remember, the preparation for examina
tions, the use of the library, the manag ment techniques and interpersona communication skills.
HR 62ABCD ( $1-1-1-1$ )

## DEVELOPMENT

1 Hr . Lec.
A course utilizing group dynamics, de signed to encourage and develop insig adjustment, the utilization of person potential, and the understanding of ind vidual and group processes of develo ment.

HR 65ABCD (1-1-1-1)
THE STUDENT IN CONTEMPORARY COLLEGE AFFAIRS
Hr. Lec.
Designed to develop leadership qualitand the prins desiring to better under organization procedures of prity, finance ics and human relations. group dynam shall be offered on a credit basis only

HR 66 (3) STRSONNEL SERVICES IN HIGHER EDUCATION
3 Hrs. Lec.
Comprec. administration and evaluation of Stu dent Personnel Services in higher education. Particular emphasis in servic
afforded in the community college.

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ND STU 40 or 80 (1-3) Hours by Arrangement

## ND STU 41 or 81 (1-3)

HUMANITIES
IND STU 42 or 82 (1-3) Hours by Arrangement
IND STU 43 or 83 (1-3) Hours by Arrangement IND STU 44 or 84 (1-3) SOCIAL SCIENCE
Hours by Arrangemen

IND STU 45 or 85 (1-3) BUSINESS

HEALTH, PHYSICAL EDUCATION AND RECREATION
ours by Arrangement
IND STU 47 or 87 (1-3)
BEHAVIORAL SCIENCE
Hours by Arrangement
ND STU 40-47 and 80-87 Available to students on an individual Aasis. Course content, prerequisites and unit credit to be determined by the Division and the Vice President for Academtion to student interest and staff availability. Courses numbered 80-87 ar non-transferable.

IND STU 48AB or 88AB (1-6)
IND STU 48AB or 88AB (1-6)
PHYSICALLY LIMITED PROGRAN
1-6 Hrs. ${ }^{1-6} 6 \mathrm{Hrs}$. Lec.-Lab. by arrangement This course is designed to help prepare the physically-limited student for full or adaptive participation in communit cational and environmental. Course number 88 is non-transferable.

IND STU 89ABCD (1-1-1-1)
INDIVIDUAL STUDIES FOR THE LEARNING CENTER ${ }_{2}^{2}$ Ars. Lab.
An individualized course of study in any discipline using materials in ther
ing Center. Non-transferable.


## ITAL 1A (2)

ELEMENTARY ITALIAN
This course is designed to develop in the student rudimentary abilitites in the four
basic language skills: hearing speaking basic language skills: hearing, speaking, contemporary usage and grammatical emphasis on the present tense. The sequence of Ital 1 A and 1 B is equivalent to a regular 4-unit 1 -semester college leve ITAL 18

## ITAL 18 (2) ELEMENTARY ITALIAN

2 Hrs. Lec. $1 / 2 \mathrm{Hr}$. Lab.
Prerequisite: Ital 1A. A continuation of Ital 1A. Grammatical emphasis on the
future and present perfect tense and the future and present perfect tense and the
imperative mode. The sequence of Ital 1 A and 1 B is equivalent to a regular 4 unit 1 -semester college level Italian unit course.
$\qquad$
JOURNALISM

## JRN 1 (3) <br> INTRODUCTION TO JOURNALISM

 3 Hrs. Lec.Prerequisite: Satisfactory performance in Eng 1 A or recommendation of English instructur. Typing skills recommended
Introduction to techniques of compiling Introduction to techniques of compliing stories. Interview methods, page make-
up and functions of a newspaper arealso up and functions of a newspaper are also
included.
JRN 2ABC (3-3-3)
ADVANCED NEWS AND FEATURE WRITING
3 Hrs . Lec
Prers. Lec.

Pisite: Jrn 1 or equivalent. Continuation of Jrn 1, with the addition of
editorial writing. Includes an introduction to the principles and techniques of newspaper production

## JRN 3 (3)

MASS COMMUNICATIONS
3 Hrs. Lec.
Survey of
Survey of mass media; their interrelationships, their problems and responsi-
bilities. Relationship of the mass media bilities. Relation
to the individual

JRN 4 (3)
3 Hrs. Lec.
Prerequisite: A course for advance Prerequisite: A course for advanced
journalism students. Study of issues of journalism students. newsman's privilege, libel, gag rules, 1 s amendment vs 6 th amendment free doms.
JRN 5 (3)
INTRODUCTION TO PHOTOGRAPHY Hrs. Lec. 3 Hrs. Lab. Same as Ph 5

## JRN 8 (3)

3 Hrs. Lec. Astudy and analysis of projecting a pub ion, governmental bess, public institu public relations campaigns for individ al personalities, and for institution and organizations, i.e., phitanthropic, health, politital, civic, commercial. Us of communications media (radio, teltions, inplant publications) to help student planning. Writing of press releases Planning of press conferences. Prepar-
ing a press kit. Publicizing events. (Same ing a press kit. Publicizing events. (Sam
s Bus 79)

LAW ENF 21 (3)
ADMINISTRATION OF JUSTICE 3 Hrs. Lec.
The history and philosophy of administration of justice in America; recapitula ous sub-systems; role expectations, and their interrelationships: theories of crime, punishment and rehabilitation fessionalism in the system.

## LAW ENF 22 (3)

3 Hrs Lec. rechniques of patrol and observation anding complaints and called-for ser vices: public relations; techniques procedures; essentials of police repo writing; utilization of specialized equip ment.
LAW ENF 23 (1) 2 Hrs. Lab.
study of the art of self-defense throug boxing, wrestling and fencing. Include crowds, mechanics of arrest, and the ransportation of prisoners and mentally education activity requirement for one semester. (Same as PE 44)


LA $2(3)$
LIBRARY
LIBRARY
WRITING
WRITING
3 Hrs. Lec.
${ }_{3} 3$ Hrs. Lec. ${ }^{\text {Prerequisite: LA }}$ 1. An introductory course in working in the legal library. Research and
documents.
LA ${ }^{3}$ (3)
3 Hrs. Lec.
Prerequisites: LA 1 and LA 2 or concur-
rent enrollment. An introductory course in basic cives as they apply to the principroce of federal, state and civil laws.
LA 5 (3)
3 Hrs. Lec.
Prerequisites: LA 1 and LA 2 or concurrent enrollment. A study of the funda-
mental principles of the law of torts, an examination of the techniques of investigation involved in the lawyer's handling of tort claims. A study of the various forms of pleadings involved in tort
LA 6 (3)
CRIMINAL
3 Hrs. Lec.
Prerequisites: LA 1 and LA 2 or concurrent enrollment. Structures, definitions. and the most frequently used sections of
the Penal Code and other criminal statthe Penal Code and other criminal stat-
utes. Elements of crimes and defenses. LA 7 (3)
CORPORATIONS AND TAXATION
3 Hrs. Lec.
Prerequisites: LA 1 and LA 2 or concurrent enrollment. Principles of agency,
principal and third parties, formation and management of California corporations, the rights and liabilities of stockholders, and corporate reorganization federal government relating to inco and deductions, exemptions, depreciation, and capital gains and losses.
LA 8 (3)
CIVIL DISCOVERY AND EVIDENCE 3 Hrs . Lec.
Prerequites.
Prerequisites: LA 1 and LA 2 or concur-
rent enrollment rules of civil evidence and the admissibility of such evidence and the admissitions, interrogations, admissions, no-
tices to tices to produce, and related rules of dis-
covery and evidence.
LA 9 (3)
3 Hrs. Lec.
Prerequisites: LA 1 and LA 2 or concurrent enrollment. Law and procedure relative to marriage, community property,
dissolution, parent and child relationships - including adoption.

LA 10 (3) BANKRUP
DEBTOR
DEBTOR
3 Hrs. Lec.
Prerequisites: LA 1 and LA 2 or concurrent enrollment. A study of the bank-
ruptcy laws and procedures. A study o ruptcy laws and procedures. A study of
creditors' rights, debtors' exemptions, and secured transactions.
LA 11 (3)
ASSISTANTS
3 Hrs. Lec.
Prerequisites: LA 1 and LA 2 or concurPrent enisitits: LA 1 and LA 2 or concur-
regal background in property ownership, with special refer ence to the law of California as it applies to community property. Conveyances,
deeds, trust deeds, mortgages, homesteads and estates, etc.
LA 12 (3)
WILLS - TRUSTS - PROBATE
Prerequisites: LA 1 and LA 2 or concurrent enrollment. A study of the fundatrusts including simple will and trus forms. An examination of the organization and jurisdiction of a California Pro bate Court including gift, inheritance
and estate taxes, and practice in documentation.
entation.

## LIBRARY TECHNICIAN

## LT 51 (3)

 SERVICES
3
This course is an introduction to librar ies and their organization. It is designed school, public, or college libraries as library technicians. Basic philosophy, procedures, tools, and techniques fo LT 52 (3)
SUPPORT FOR TECHNICAL SERVICES
3 Hrs. Lec.
Prerequisites: LT 51 or consent of the instructor. An introduction to the various semi-professional tasks in the technic

LT 53 (3)
SUPPORT
SUPPORT FOR PUBLIC SERVICES
3 Hrs. Lec. Prerequisites: LT 51 or consent of the in-
structor. Library public relations, circulation control systems and location of information through use of card cata-
logs, indexes, and basic reference
books.

LT 54 (3)
INTRODUCTION TO AUDIOVISUAL SERVICES
3 Hrs. Lec.
Prerequisites: LT 51 or consent of the in structor. A survey course of the pro
cesses necessary for the utilization o audiovisual materials and equipment in the library situation.
LT $55(3)$
CATALOGI 3 Hrs. Lec.
Prerequisite
Prerequisites: LT 51 and/or LT 52 or
consent of the instructor. A course de consent of the instructor. A course die
voted to the development of the skill and practical experiences needed by li brary technical assistants in support of operation. The student learns the theory and philosophy underlying the classification systems used in American librar es, classifies and catalogs book and variety of work-experience situation where this knowledge is put to use.
$\qquad$
Whenever a mathematics class of any kind is a prerequisite, that mathematics class m

MATH X (3) Hrs. Lec. satisfactory score on mathematics placement test. A one-semester course which covers the material generally in-
cluded in a full year high school algebr cluded in a full year high school algebr
MATH Y (3)
PLANE G Gec
Prerequisite: Completion of Math 51 or satisfactory score on mathematics placement test. Covers the same matergeometry in high school.

## MATH A (3)

## ate algebra

Prerequisites: Math $X$ and $Y$. This onesemester 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 progressions, logarithms, conic
the introduction to determinants.

| MATH C (3) <br> PLANE TRIGONOMETRY <br> 3 Hrs. Lec. <br> Prerequisite: Math $A$ 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. | MATH 6 (3) <br> LINEAR ALGEBRA <br> 3 Hrs. Lec. <br> 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, eigen values, vector spaces, and linear transformations. Physical applications will be considered when appropriate. | MATH 50 (3) <br> SHOP MATHEMATICS <br> 3 Hrs. Lec. <br> A basic course in mathematics designed to meet the needs of students enrolled in the following vocational programs: automotive technology, welding, agricultural engineering, and physically limited. The course will cover applied mathematics for the shop student, factoring, fractions, measuring devices, | MPP 4C (2) <br> FILM CRITICISM: GANGSTERS, <br> POLITICS, SOCIAL PROTEST <br> 1 Hr . Lec. 2 Hrs. Lab. <br> (Same as Eng 4C, Hum 4C) <br> MPP 4D (2) <br> FILM CRITICISM: DOCUMENTARIES, <br> EXPERIMENTAL FILMS <br> 1 Hr . Lec. 2 Hrs . Lab. <br> (Same as Eng 4D, Hum 4D) | necessary to present music to children including notation, meter, rhythm, scales, intervals, triads and elementary keyboard facility. <br> MUS 8A (2) <br> BEGINNING MUSICIANSHIP <br> 2 Hrs. Lec. <br> Prerequisite: Mus 7 or approval of instructor. Required of all music majors. A | MUS 10A (1) <br> BEGINNING GROUP PIANO I <br> 1 Hr. Lec. 2 Hrs. Lab. <br> A course structured to correlate those musical skills, techniques and understandings which are basic to comprehensive keyboard musicianship at the early level of study. <br> MUS 10B (1) <br> BEGINNING GROUP PIANO II |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 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 10 (3) <br> MATHEMATICS FOR ELEMENTARY <br> SCHOOL TEACHERS <br> 3 Hrs. Lec. <br> Prerequisites: Math X and Math Y , or the equivalent, or permission of instructor. Recommended for students who are working towards a teaching credential in elementary education. Sets and relations, functions, the development of the number system from the natural num- | basic geometry, measurement of areas and volumes, board measure, metric measurement. Satisfies the Imperial Valley College mathematics competency requirement as demonstrated by appropriate examination and is not open to students who have completed Math 51. (Same as Ag 50, Auto Tech 50, PL 50 and Weld 50 ) | MPP 10 (3) <br> INTRODUCTION TO MOTION <br> PICTURE PRODUCTION <br> 3 Hrs. Lec. Plus production practice hours to be arranged <br> Study of the basic elements of the filmmaking process in 8 mm , including scripting, shooting and editing. The college will provide the necessary equipment. Students supply materials. (Same as Eng 10) | 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. <br> MUS 8B (2) BEGINNING MUSICIANSHIP 2 Hrs. Lec. | 1 Hr. Lec. 2 Hrs. Lab. <br> Prerequisite: Mus 10A. A continuation of Mus 10A. <br> MUS 11A (1) <br> INTERMEDIATE GROUP PIANO I <br> 1 Hr. Lec. 2 Hrs. Lab. <br> Prerequisites: Mus 10A and 10B or equivalent. A course structured for those students who have attained the performance skill competencies required in |
| MATH 2 (5) <br> ADVANCED ALGEBRA AND <br> TRIGONOMETRY <br> 5 Hrs. Lec. <br> Prerequisite: Math 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. | bers, including the whole numbers, the integers, the rational numbers, and the real numbers. <br> MATH 12 (3) <br> ELEMENTARY STATISTICS <br> 3 Hrs. Lec. <br> Prerequisite: Math $A$ or the equivalent. Graphical representation of statistical data, calculations and uses of various averages, measures of variability, elementary probability and the normal curve, sampling and estimation. (Same as Psych 12) <br> MATH 17 (3) <br> MATHEMATICS FOR BUSINESS | 3 Hrs. Lec. <br> 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. <br> MATH 52 (1) <br> THE METRIC SYSTEM <br> 1 Hr. Lec. <br> A brief introduction to the history of the metric system. Advantages and popularity of the International System of Units (SI). Metric units include those for | MPP 11 (3) <br> INTERMEDIATE MOTION PICTURE PRODUCTION <br> 3 Hrs. Lec. <br> Continued work in the 8 mm medium. Practice in the skills of continuity development and of sound recording on film. Study of the aesthetics of the film medium, including the effects of sound and dynamic editing upon the viewer. Students supply materials. <br> MPP 12 (3) <br> ADVANCED MOTION PICTURE PRODUCTION <br> 3 Hrs. Lec. | Prerequisite: Mus 8A. Continuation of Mus 8A. <br> MUS 8C (2) INTERMEDIATE MUSICIANSHIP 2 Hrs. Lec. <br> Prerequisite: Mus 8B. A continuation of Mus 8 A and 8 B to increase skills in sightsinging, ear-training, and keyboard harmony. <br> MUS 8D (2) INTERMEDIATE MUSICIANSHIP 2 Hrs. Lec. | MUS 118 (1) <br> INTERMEDIATE GROUP PIANO II <br> 1 Hr. Lec. 2 Hrs. Lab. <br> Prerequisite: Mus 11A. A continuation of Mus 11A. <br> MUS 12 (1) <br> BEGINNING CLASS GUITAR <br> 1 Hr . Lec. 2 Hrs . Lab. <br> A basic course on how to accompany with the guitar. Stress will be placed on tuning, chording, different types of strums and elementary transposition. |
| MATH 3A (5) <br> ANALYTIC GEOMETRY AND <br> CALCULUS <br> 5 Hrs. Lec. <br> 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. | ANALYSIS <br> 3 Hrs. Lec. <br> Prerequisites: Math $A$ or the equivalent. To prepare for upper division courses in business. To provide some understanding of ideas from modern mathematics which are so important in this computer age. Topics included are logic, sets, counting, probability, vectors and matrices, mathematics of finance, linear programming, and calculus with applications. (Same as Bus 9) | temperature, and others. Conversions to and from the metric system are presented. <br> MEDICAL OFFICE ASSISTING <br> MA 1 (8) <br> MEDICAL OFFICE ASSISTING <br> 4 Hrs. Lec. 12 Hrs. Lab. <br> (Same as Bus 47) | advanced course covering the writing, organization and production of a sound super 8 motion picture. The students will receive practice in production crew organization and cooperation. Each student crew will produce a five to 10 minute motion picture. Students supply materials. <br> MPP 13 (1) <br> TV STATION OBSERVATION, OPERATION AND MANAGEMENT I 2 Hrs. Lab. | Prerequisite: Mus 8C. A continuation of Mus 8C. <br> MUS 9A (3) BEGINNING HARMONY <br> 3 Hrs. Lec. <br> Prerequisite: Mus 7 or Mus 8A concurrently or consent of the instructor. Sightsinging, dictation and keyboard harmony. Traditional diatonic harmony, four-voice writing, analysis. | INTERMEDIATE CLASS GUITAR <br> 1 Hr. Lec. 2 Hrs. Lab. <br> Prerequisite: Mus 12 or consent of instructor. A continuation of Mus 12 with the following additions: 1. Reading music (standard musical notation); 2. A thorough presentation of bar chords including sevenths, ninths, diminished, augmented and various altered chords; <br> 3. Advanced picking techniques. <br> MUS 15A (1) <br> BEGINNING CLASS VOICE |
| MATH 3B (5) <br> ANALYTIC GEOMETRY AND <br> CALCULUS <br> 5 Hrs. Lec. <br> Prerequisite: Math 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 18 (3) <br> INTRODUCTION TO MATHEMATICS <br> 3 Hrs. Lec. <br> Prerequisites: Math $X$ 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 applica- | MOTION PICTURE PRODUCTION <br> MPP 3 (2) <br> INTRODUCTION TO FILM HISTORY <br> AND CRITICISM <br> 1 Hr. Lec. 2 Hrs. Lab. <br> (Same as Eng 3. Hum 3) <br> MPP 4A (2) <br> FILM CRITICISM: WESTERNS, | rollment in MPP 11, or its completion and permission of instructor. The student shall observe the various activities and departments at a television station. He shall become acquainted with the function of the various departments, their relationship to each other and the skills and training required to perform each major job and craft. | BEGINNING HARMONY <br> 3 Hrs. Lec. <br> Prerequisite: Mus 9A. A continuation of Mus 9A. <br> MUS 9C (3) <br> INTERMEDIATE HARMONY <br> 3 Hrs. Lec. <br> Prerequisite: Mus 9B. A comprehensive study of the theory of music to include | 1 Hr. Lec. 2 Hrs. Lab. <br> 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. <br> MUS 15B (1) <br> BEGINNING CLASS VOICE |
| MATH 4 (4) <br> CALCULUS AND DIFFERENTIAL EQUATIONS 5 Hrs. Lec. | tions. Includes course work in the theory of the structure of arithmetic and algebra of the real number system. Not intended for mathematics majors. | COMEDIES, MUSICALS <br> 1 Hr. Lec. 2 Hrs. Lab. <br> (Same as Eng 4A, Hum 4A) <br> MPP 4B (2) | MUSIC MUS 7 ( 3 (3) INTRODUCTION TO M | tional harmony. An introduction to 20th century harmonic and melodic systems. | Prerequisite: Mus 15A or its equivalent. A continuation of Mus 15A. |
| Prerequisite: Math 3B. Partial differentiation, multiple integration, ordinary differential equations, applications, and elements of linear algebra. | MATH 47 (3) <br> PROGRAMMING IN FORTRAN <br> 3 Hrs. Lec. <br> (Same as Bus 55) | FILM CRITICISM: HORROR, FANTASY, SCIENCE FICTION 1 Hr. Lec. 2 Hrs. Lab. (Same as Eng 4B, Hum 4B) | FOUNDATIONS <br> 3 Hrs. Lec. <br> Elementary music theory for the class- <br> room teacher. Development of skills | INTERMEDIATE HARMONY <br> 3 Hrs. Lec. <br> Prerequisite: Mus 9C. A continuation of <br> Mus 9C. | 1 Hr. Lec. 2 Hrs. Lab. <br> Prerequisites: Mus 15A and Mus 15B or their equivalent. A continuation of Mus 15B. |
|  | 54 |  |  | 55 |  |

## MUS 17ABCDEF (2-2-2-2-2-2)

 2 Hrs. Lec. 1 Hr . LabPrerequisites: Mus 15A or permission of he instructor. A performance organiza nd secular a cappella and accompa d. A minimum of six outside perfor mances required each semester
MUS 18ABCDEF (2-2-2-2-2-2)
CHAMBER ORCHESTRA
${ }_{2}$ Hrs. Lec. 1 Hr. Lab.
rerequisite: Permission of instructor. A performance organization specializing
in literature for a small orchestra. Performances in local communities and on campus are required. Field trips to other performers develop efficient listening and evaluating practices. Solo and ensemble rehearsals and performance are included
MUS 19ABCDEF (2-2-2-2-2-2)
2 Hrs. Lec. 1 Hr . Lab
2 Hrs. Lec. 1 Hr . Lab. ing in literature for string, brass, wood wind and percussion ensembles, or any combination thereof. Designed for mucians who wish to explore, rehearse, periods.
MUS 20A (3)
HISTORY AND LITERATURE OF MUSIC
3 Hrs. Lec.
he historical development of music with a study of various types of musi
from stylistic periods as a medium o cultural development. Intended as a background toward further studies in
music for the music major and persons music for the music major and persons
interested in a thorough background for enjoying music.
MUS 20B (3)
HISTOR
3 Hrs. Lec.
MUS 21ABCD (1-1-1-1)

## PERCUSSION METHODS

1 Hr. Lec. 2 Hrs. Lab.
Depth study and performance of literaure for brass, woodwind, string and per

MUS 22A (2)
NTRODUCTION TO PRINCIPLES
ND PRACTICES OF CONDUCTING
Prerequisites: Permission of instructor or Mus 7 or Mus 8A and 9A. Technique of instrumental and vocal conducting
Preparation - rehearsal and perfor mance procedures for the conductor.

## MUS 22B (2)

2 Hrs. Lec. 1 Hr. Lab.
Prerequisite: Mus 22A. Techniques involved in standard conducting prob-
lems. Preparation - rehearsal and procedural problems encountered in conducting music.
MUS 25ABCDEF (2-2-2-2-2-2)
STAGE BAND
2 Hrs. Lec. 1 Hr. Lab.
Prerequisite: Mus $21 A$-D or audition and ensemble specializing in the literature of the stage and jazz band traditions. Students will be provided ensemble experiences necessary for developing and
refining improvisation techniques and performance practices appropriate to jazz, rock, blues and swing music traditions.
MUS $26 A B C D$ ( $1-1-1-1$ )
REHEARSAL AND PERFORMANCE REHEARSAL
3 Hrs. Lab.
3 Hrs. Lab.
Prerequisite: Permission of the instruc
tor. Enrollment contingent upon participation in campus major musical production. Maximum credit, 1 unit per semester for four
ranged.
MUS 27ABCDEF (2-2-2-2-2-2)
2 Hrs. Lec. 1 Hr. Lab
Prerequisite: Music 21A-D or audition and permission of instructor. A performance organization specializing in literafforded the opportunity to develop the musical skills and understanding necessary for the highest levels of expressive
ensemble performance. Scheduled public performances are a part of the course obligations.
MUS 28ABCDEF (2-2-2-2-2-2) 2 Hrs. Lec. 1 Hr. 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, performance and study of choral literature. Introduction to music theory as a means of learning to $r$

## MUS 29ABCDEF

ESTUDIANTINA
2 Hrs. Lec. 1 Hr. Lab.
Open to all students. particularly those of Mexican background and culture who
wish to perform music stemming from wish to perform music stemming from
the tradition of "tunas," developed during the Renaissance in Spain's large and influential universities. For singers and/ or instrumentalists playing accordion,
castanets, guitar, mandofin, string bass, tambourine.

MUS 30 (3)
INTRODUCTION TO MUSIC 3 Hrs. Lec.
An introduction to music for the non-
music major. A study of the materials music with emphasis upon development of listening skills. A presentation of the tructure and style of the major media and forms of music.
MUS 31 (3) 3 Hrs. Lec.
An introduc
An introduction to Twentieth-Century
music exploring its nineteenth-century meritages, the first attempts to utilize unusual musical materials, the shift in musical philosophy as composers turned cept of music as an expression of subective will and moral force to more ob ective functions, the inveltion of new instruments, and unusual

## MUS 32ABCD (1-1-1-1)

APPLIED MUSIC
Hr. Lec. . 5 Hr. Lab. to be arranged rerequisites: Declared music majo egularly enrolled in the College and be hree units in music courses numbered 8A through 9D. A course designed to provide students with a concentrated sequence of private instruction in music within a particular performing medium
One section meeting per week on campus, in addition to private instruction. As equired conditions, the student must 1) Secure a teacher approved by the Col
lege. 2) Take a minimum of one 30 min lege. 2) Take a minimum of one 30 min
ute lesson per week. 3) Meet one hour class per week on campus for pertor mance as scheduled and turn in weekl on attendance form.
Mus 55 (2)
tar and mexican
OLK SONGS FOR SPANISH
PPEAKERS
Hrs. Lec. 1 Hr. Lab.
Same as Span 53)
MUS 63ABCD $(1 / 2-1 / 2-1 / 2-1 / 2)$

## PEP BAND 2 Hrs. Lab.

2 Hrs. Lab.
This course will provide music students with course will provide music student fulfitls symbotic and ceremonial need of society together with procedures and rocesses appropriate to maintaining music organizations
meeting these needs.

## MUS 64 (2

COLLEGE-COMMUNITY BAND 2 Hrs. Lec. 1 Hr . Lab.
ing in a wide range of literature for the ing in a wide range of literature for
wind band. The primary objective will
to provide the continuing music per- of Registered Nursing required cours forming experiences needed by com-
munity adults, music educators and advanced high school students.

NAT SCI 51 ( 3$)$
SURVEY OF T

## 3 Hrs. Lec.

A junior college general education course to acquaint the student with some principles of the earth sciences in-
cluding sections on astronomy metercluding sections on astronomy, meteor-
ology, oceanography, geology and phyology, oceanography, geology and phy-
sical geography. Not oopen to students
with credit in Gep with credit in Geog 1, Geol 2, Geol 1A or
Astron 1. Astron 1.

NURSING - ASSOCIATE DEGREE
The Associate Degree Nurse Program (four semesters in length) prepares the
student to receive the Associate of Science degree from the College and be eligible to write the examination given by ing to obtain licensure as a registered nurse. The program, which is also accredited by the National League for Nursing, prepares men and women to give di-
rect nursing care to patients in hospitals rect nursing care to patients in hospitals,
clinics, and similar community healthcare agencies. Courses in general education and nursing are taken at the college campus. Nursing laboratory experi-
ences are offered at selected area hospitals and other health agencies under the guidance of nursing faculty members. Transportation to these agencies is the
responsibility of the student.
Students are admitted once a year in
September. A Nursing September. A Nursing Admissions Early application (previous to February 1) is recommended, since the number of students who can be admitted is limited. Applicants are accepted according to Admission requirements include high school graduation (or its equivalent), a gy (or their college equivalent) and bioio gy (or their college equivalent), comple
tion of English 1 A and Psychology 1 A college, completion of Math 51 (as determined by college placement tests), chysical and dental examinations (inplicants with prior education in nursing (R.N., V.N. or Health Aide) may apply for credit by examination and/or advanced an individual basis.

For continuation in and successful
completion of the program a or better is required in each of the Board
nursing, anatomy, physiology, microcation elective and english, commun courses. An overall 2.00 grade poin average ( $C=2.00$ ) must be maintained in
order to enroll in order to enroll in each succeeding se-
mester of the program. The college graduation requirements in health education are waived for A.D.N. students. The nursing faculty reserves the right to ecommend that a student be asked to any time if academic, clinical, health or personal standards are not maintained.

CURAICULUM
Units
1st st.
Und sits
2nd


## ADN 3-4 ADN 5 a ADN $5 B$

-s

Anatomy 8 and Human Physioogy 1 may be sub-
stituted. If student elects to do this thes
courses must be cempleted before entering th Associate Degree Nursing Program.
-First year coürses must be completed before registry year of courses mu
istrions en
itudents expecting
Students expecting to transter to a State senior
college are avvised to take 6 Units of "American
Insitutionss electives

## ADN 1 (8)

## ASSOCIATE DEGREE NURSING

rerequisite: Adm. Lab
gram. Introduction to nursing including and illness. Theory and nurse in health cal experiences in basic nursing cliniples and measures which meet basic needs common to individuals of all ages
from infancy to senesconce of growth and development and mental of growth and development and mental
health concepts introduced. Personality development, understanding of self and therapeutic nursing roles are studied. legal, cultural, social, ethical responsibilities of the nurse, communication skills, pharmacology, nutrition in health and disease are introduced and then in

ADN 2 (8)
4 Hrs. 4 Hrs. Lec. 12 Hrs. Lab.
of growth and development, physiopts cal and psychological responses to trauma and disease are studied as are the common health problems encountered by individuals of all ages. Special needs
of individuals before, during and efter surgery included. Interrelatedness of emotions and organic disease intro-
duced. Experiences concurrent in duced. Experiences concurrent in the cies. Experience in participating with
the interdisciplent the interdisciplinary psychiatric team
with emphasis with emphasis on the role of the nurse in
interacting with individuals or groups interacting with individuals or groups
with mental health problems.
ADN 3 (11)
Assocate degree nursing
Hrs. Lec. 18 Hrs. Lab.
Prerequisite: ADN 2 . ADN 5 taken concurrently. Using the nursing process and knowledge and principles from the natural and behavioral sciences, atti-
tudes, skills and the caring role are di veloped in meeting needs of the family
during the maternal cycle. Emphasis is during the maternal cycle. Emphasis is
on the normal cycle, with consideration also placed complications. Emphasis glected child, and on adults with prob-
lems of sexuality. Mental health con lems of sexuality. Mental health con cepts stressed. Clinical experiences
provided in hospital and community
agencies. Experience through limite home visits to an expectant family also ADN 4 (11)
ASSOCIATE DEGREE NURSING 5 Hrs. Lec. 18 Hrs. Lab.
rerequisite: ADN 3 . ADN 5B taken con currently. Using scientific, psycho and skills are developed to plan, imple ment, and evaluate comprehensive nursing care. Common and complex ealth problems interfering with the Special consideration is given to agin and the aged, and to cultural/ethnic and sexual aspects of care. Clinical experitals are concurrent, and opportunity is given to participate in leadership roles d group nursing management.
ADN 5 A (1)
ENT OF CONTEMPORARY NURSING
Prerequisite: ADN 2. ADN 3 taken con and health care. Contemporary status o registered nurses. Cultural, spiritual hical and social components of nurs

ADN 58 (1)
NURSING TRENDS AND
OPPORTUNITIES
1 Hr. Lec.
Prerequisite: ADN 3 and ADN 5A. ADN 4 taken concurrently. Contemporary
problems and trends in nursing. Legal problems and trends in nursing. Lega
and ethical aspects. Legislation affectand ethical aspects. Legistanion and pubing health care. Organizations apd e pson-
lications. Career opportunities.
al responsibility for professional growth. al responsibility for professional growth

NURSING - TRANSITIONAL
For Licensed Vocational Nurses
California law provides that a Li-
censed Vocational Nurse shall be eligicensed Vocational Nurse shall be eligi-
ble to apply for examination for licen-
sure as a registered nurse when certain sure as a registered nurse when certain
courses (totaling 30 units of credit) have been completed in an Associate Degree Nursing Program accredited by the
Board of Registered Nursing. AppliBoard of Registered Nursing. Appli-
cants are advised to confer with the cants are advised to confer with the
Nursing Director concerning the details
of the Board of Registered Nursing reNursing Dire
of the Board

## quirements.

In addition to the above, periodically (when sufficient students indicate inter est) a special program will be offered for a group of LVN's who wish to complete
the above-mentioned requirements.
TN 10 (8)
TRANSITIONAL NURSING I
4.4 Hrs. Lec. 10.6 Hrs. Lab.

Prerequisites: VN 56 or equivalent, Bio
21. Anat 10 or Physio 1 . 21, Anat 10 or Physio 1. Introduction to
the role of the registered nurse in contemporary society including the control forces of legal and ethical responsibili-
ties of the registered nurse. Theory and integrated clinical experiences in meet ing the needs of healthy and ill individuals based on principles from the natural and social sciences. Self-awareness, personality development, group process
and therapeutic use of self are studied. Emphasis placed on the changing role of the nurse from vocational nursing practice to registered nursing practice.
(Course is taught as 8 hours lecture and (Course is taught as 8 hours lecture and
19 hours laboratory per week during a 10 -week summer session for a total of
80 hours lecture and 190 hours labora80 hours lecture and 190 hours labora tory.) 11 (14)
TRANSITIONAL NURSING II 8 Hrs. Lec. 18 Hrs. Lab Prerequisite: TN 10. Through the processes of nursing, managing and self
development, the student is guided through theory and clinical experiences to plan, carry out and evaluate comprehensive nursing care for individuals of all ages. Practice is offered in nursing
leadership, rehabiitation and health teaching in a variety of settings. Emphasis is placed on personal
for professional growth.

NURSING-CONTINUING EDUCATION Prospective students are advised to semester concerning continuing education courses to be offered. New courses are offered periodically as community health agency and health personnel
needs are identified. A "Materials and Special Services Fee" will be charged. All courses have been approved by the California Board of Registered Nursing,
BRN Provider No. 00294, and meet the requirements for relicensure.
RN 38 (1/2-3)
THIS YEAR'S ISSUES IN HEALTH ${ }^{1 / 2-3}$ Hrs. Lec.
f lectures, seminars, and orkshops, covering current issues in will be offered each semester for health personnel interested in securing Con-
tinuing Education credit and/or expanding and updating their knowledge in cer tain health related fields. Such topics as Cardiac Arrhythmia Recognition, Neonatal Nursing, Body fluids and Electro
lytes, Creative Supervisory Skills, Renal ytes, Creative Supervisory skills, Rena vider, CPR Instructor, Advanced Life Support, Pharmacology will be includ
d. Programs will be 2 hours or more in length; attendance hours accumulated within one semester totaling a minimum of 9 will earn $1 / 2$ college unit and incre ments of 9 hours thereafter will earn
college unit up to a total of 54 attendance hours, which will earn 3 college units. C.E. certificates will be issued for each program. (Same as VN 38, HA 38 RN 39 (6)
he acutely ill
Prerequisites: ADN 5AB, VN 56 or equivalent (with permission of instructor and completion of a Basic Arrhythmia
Recognition course - this may be challenged.) An intensive review of cardiovascular, pulmonary, autonomic nervous and renal systems and the disease processes involved. Nursing care and pursing assessment omprehensive study in electrocardiography and analysis of arrhythmias, drug management, fluid and elec-
trolyte balance. Emergency trolyte balance. Emergency nursing hours for completion of course are 120 hours lecture.) (Same as VN 39) (For-
merly RN 20) merly RN 20)
RN 40 (2)
INTRAVENOUS THERAPY
TECHNIQUE
1.8 Hrs. Lec.
1.8 Hrs. Lec. 3 Hr. Lab.
Prerequisite: ADN 5 AB . VN 56 or equivalent. A course of instruction in intravenous therapy and the practice of veni-
puncture and blood withdrawal. Total puncture and blood withdrawal. Total
hours lecture ( 3 hours weekly for 11
weeks) and 6 hours laboratory (Same as VN 40, HA 40) (Formerly RN 26) NURSING - REGISTERED

## (Graduates of Hospital Diploma

The A S. Degree wir awarded to graduates of hospital diploma schools of nursing who meet all of the following program

1. Graduate of a state-accredited hospi1. Graduate of a state-accredited hospicurriculum covering the five basic
areas of nursing (medicine, surgery, curreas of nursing (medicine, surgery,
abstetrics, pediatrics, psychiatry). 2. Prestetrics, pediatrics, psychiatry).
2. Licensure.
3. Present
College.

Program to be Completed
Blanket credit for previous nursing
courses completed ........ 40 Units
Courses completed $\ldots \ldots . . .40$ Units
(Corresponds to number of RN course units in IVC Associate Degree Nursing
Program.)
General Education courses to meet college requirements for
graduation ................ 20 Units
(In order to allow the graduate to artic-
ulate ulate with baccalaureate programs in nursing, tisstrongly recommended what the general education requirements: Anatomy 8, Human Physiology 1 , Biology 21, Psycholog
Psychology 35.)
Applicants for this degree must verify items 1 and 2 of the Criteria with the
Nursing Director. Check with Counsel Nursing Director. Check with Counsel-
ing Center for procedure to follow.

## NURSING - VOCATIONAL

The Vocational Nurse Program (three semesters in length) prepares the stu-
dent to receive a Certificate of Compledion from the college and be eligible to write the examination given by the Cali-
fornia Board of Vocational Nurse and Psychiatric Technician Examiners to obtain licensure as a Licensed Vocational Nurse. The program prepares men and women to give direct patien
care in health-care agencies under the cupervision of a registered nurse or physician. In addition to classes on the
college campus, students receive coorcollege campus, students receive coor-
dinated instruction and clinical experiences at selected area hospitals under the guidance of nursing faculty mem-
bers. Transportation to area hospitals bers. Transportation to area hospitals
and agencies must be supplied by the and agent.
student

Students are admitted every third
semester (in September or Nursing Admissions Committee will review all applications. Early application (six months before anticipated admis-
sion) is recommended since the sion) is recommended, since the num-
ber of students who can be admitted is limited. Admission requirements include high school graduation (or its equivalent), a year of high school biol-
ogy (or its college equivalent), eligibility ogy (or its college equivalent), eligibility
to take the Eng 1 A course and comple to take the Eng A course and comple-
tion of Math 51 (as determined by college placement tests), physical and
dental examinations (including dental examinations (including speci-
fied immunizations). Applicants with fied immunizations). Applicants with
prior education in nursing (RN, VN, or Health Aide) may apply for credit by examination and/or advanced placement. This will be determined on an in-
dividual basis. For continuation in and successful completion of the program, a grade of $C$ or better is required in each of the courses below and an overall 2.0
grade point average ( $\mathrm{C}=2.0$ ) must be grade point average ( $C=2.0$ ) must be
maintained in order to enroll in each succeeding semester of the program.

|  | curaiculum |  |  |
| :---: | :---: | :---: | :---: |
|  | Units 1st s. | $\begin{gathered} \text { - Unilis } \\ \text { 2nd s. } \end{gathered}$ | *Units |
| Psych 5 Psych. of Effect. |  |  |  |
| Behav. (or Psych |  |  |  |
| v.N. 50 Med-Surg Nsg. i... |  |  |  |
| V.N. 51 Clin Fund. |  |  |  |
| V.N. 52 | Med-Surg Nsg. II | 4 |  |
| V.N. 53 Mat-Child Ns, |  |  |  |
| V.N. 54 Clin. Fund |  |  |  |
| V.N. 55 Med-Surg |  |  |  |
|  |  |  |  |
|  |  |  |  |

## VN $50(7)$ MEDICAL

7 MEDICAL-SURGICAL NURSING
7 Hrs. Lec. Prerequisite: Enrollment in the Voca-
tional Nursing Program. Concurrent with VN 51. Foundations and theory of principles of nursing care as they relate to patients with musculo-skeletal and di-
gestive system disorders. The normal as well as the abnormal will be studied. Vocational nurse's responsibility toward prevention of disease and rehabilitation.
Psychological impact of illness on patient and his family. Medications and nutrition integrated throughout.

## VN 51 (7) CLINICAL. F

21 Hrs. Lab.
Prerequisite:
Prerequisite: Concurr
Introdut
Introduction to the relationship that
exists between the nurse exists between the nurse and the patient
and between the nurse and other mem bers of the health team. Legal aspects nursing. Application of the vocational required to meet the immediate needs of
the patient in the hospital setting. Founing care as they relate to patients with musculo-skeletal and digestive system disorders. Medications and nutrition
integrated throughout.

## VN 52 (4) MEDICAL-

L-sURGICAL NURSING II
Hrerequisite: VN 50 , VN 51 , concurr with VN 54 . Nursing care and planning or patients with circulatory diseases and the interrelationship of the circula-
tory system with other systems of the lory system with other systems of the
body. Encouragement to adapt knowledge to patient situations indepen dently. Medications and nutrition inte-

VN 53 (6)
ATERNAL-CHILD HEALTH

## N Hrs. Lec.

Prerequisite: VN 50, VN 51, concurrent with VN 54. Maternal and child health with emphasis on the normal growth and
development pattern. Abnormal conditions introduced as they relate to pre vention and control. The role and nursing responsibilities of the vocational tions and nutrition integrated Medica out.
VN 54 (7)
CLINICAL FUNDAMENTALS
21 Hrs. Lab.
Prerequisite: VN $50, ~ V N ~ 51 . ~ C o n c u r r ~$ with VN 52 and VN 53 . Development o previously learned skins in addition to related to total patient needs as well as specific diseases and disorders of the
circulatory system. Nursing circulatory system. Nursing care of the
mother, the newborn infant and the family group. Medications and nutrition

## integrated throughout.

## VN 55 (10)

10 Hrsal-surgical nursing III 10 Hrs. Lec.
Prerequisite: VN 50, VN 51 . Conncurrent standing of theory related to nursing care of patients with health problems involving the excretory, integumentary,
sensory, sensory, respiratory, endocrine and
nervous systems. Care of the geriatric patient. The integration and interrelationship of all body systems. Medications and nutrition integrated through-
out. out.
VN 56 (7)
CLINICAL FUNDAMENTALS
Prerequisite: VN 50 and VN 51. Concurrent with VN 55 . Continuation of devel-
opment of proficiency in opment of proficiency in performing
procedures and planning total patient procedures and planning total patient
care. Independent decision making
within the realm of the vocational nurse. More intensive and comprehensive Employment opportunities experienced. tions helpful to the vocational nurse, legal aspects, and licensing require-
ments will be explored Previously ments will be explored. Previously
learned nursing care will be emphasized learned nursing care will be emphasized
and correlated. Stress will be placed on planning nursing care and making independent decisions. Medications and nutrition integrated throughout.

NURSING-CONTINUING EDUCATION
Prospective students are advised to check with the college previous to each semester concerning continuing educa-
tion courses to be offered. New courses are offered periodically as community health agency and health personnel needs are identified. A "Materials and All courses have been approved by the California Board of Vocational Nurse and Psychiatric Technician Examiners, he requirements for 00294 , and mee VN $38(1 / 2-3)$

ISSUES IN HEALTH $1 / 2-3$ Hrs. Lec.
(Same as RN 38, HA 38)
VN 39 (6)
NURSING THE ACUTELY ILL. 6.7 Hrs. Lec.
(Same as RN 39) (Formeriy VN 20 ) VN $40(2)$
INTRAVENOUS THERAPY TECHNIQUE
1.8 Hrs. Lec. 3
1.8 Hrs. Lec. . 3 Hr. Lab.
(Same as RN 40 , HA 40) (Formerly VN 26)

## PHILOSOPHY

PHIL 1A (3)
INTRODUCTION TO PHILOSOPHY 3 Hrs. Lec.
man's interpretation of the nature and meaning of reality. Emphasis placed
upon the existence of God, free will and
mind-body prote mind-body problems.

## PHIL 1 B (3)

INTRODUCTION TO PHILOSOPHY 3 Hrs. Lec.
The place of philosophy in intelligent
living and the methods and significance of philosophical inquiry. Emphasis is placed upon problems of value and human nature. Phit 18 may be taken
before Phil 14 .

PHIL ${ }^{10}{ }^{(3)}$
3 Hrs. Lec.
An introduction to deductive and inductive logic. Attention focused upon the relationship between logic and lang-
uage, fallacies, and the use of logic in uage, faliacies,
everyday life.
PHIL 11 (3)
ETHICS
ETHICS
3 Hrs. Lec.
An introduction to significant and typical value theories and systems, and of
the concrete problems such theories the concrete problems such theories
seek to explain. Emphasis placed upon teaching students to critically analyze their own value systems.

## PHIL 25 (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.

PHOTOGRAPHY
PH $5{ }^{(3)}$
NTRODOUCTION TO PHOTOGRAPHY 2 Hrs. Lec. 3 Hrs. Lab.
The basic theory, techniques and skills
of photography. Consideration will be of photography. Consideration will be cameras and lenses, determination of exposure, different types of films and
filters, lighting, principles of composifilters, lighting, principles of composi-
tion, and the legal aspects of photography. Print production will be covered by sections on darkroom techniques, of film, contact printing, and enlargement technique. The student will provide an adjustable camera for assignment work. Specific projects will be de-
veloped for students with special subject interest. There will be a material fee. (Same as Jrn 5)
PH 6 (3) 2 Hrs. Lec. 3 Hrs. Lab.
Prerequisite: Ph $5 / J r n 5$ or permission of the instructor. Psych 1 A is recommendemphasis on lighting, basic poses and studio work. Posing of the subject and visualization of the finished picture will camera operation and film processing. There will be a materials fee.

## PH 7 (3)

ADVANCED PHOTOGRAPHY 2 Hrs. Lec. 3 Hrs. Lab.
Prerequisite: Ph 5 and Ph 6 or equivasis on advanced studio and location
work and on illustrative photography in
cluding magazine covers, fashion and cluding
lay-out.

## PH 8 (3) MULTI-MEDIA

3 Hrs. Lec.
Prerequisites: Ph 5 and Ph 6 . Ph 7 recommended. An introduction to color slides and motion picture production
through the use of sequence stills, employing all techniques used in previous photographic courses. Emphasis will be given to the following areas: script writcamera techniques. There will be a materials fee.

## PHYSICAL EDUCATION

Unless exempt, each student is re-
quired by district policy to schedul quired by district policy to schedule one may take $A$-B-C-D sections of the same course, but not in the same semester.

## PE 1 (4)

PHYSICAL EDUCATION ACTIVITY MILITARY SERVICE
Prerequisite: The satisfactory comple-
tion service one year or more in the military wishing credit for military. The studen present his DD214 or equivalent supporting document to the Admissions Office. If the student signs up for the class for military credit and does no submped as a No-Show and will not re ceive credit. PE 1 does not count for units toward VA or full-time student status. These hours are not contact education requirement, but may be taken only once.
PE 2A (1)
BEGINNING GYMNAStics, COED 2 Hrs. Lab.
ion to gymnastics, which involves the heavy apparatus plus the nvolves the heavy apparatus plus the
so-called free exercise or free calis-so-called free exercise or free calis-
thenics. Individual development and performance is emphasized with a stress on safety
PE 2B (1)
INTERMEDIATE GYMNASTICS, COED ${ }_{2}^{2}$ Hrs. Lab. Prerequisites: PE 2A or approval of in-
structor. Offers training in the advanced structorentals of gymnastics, instruction is given concerning group stunts and exhibitions.

## PE 3A (1) BEGINNING

HEGINNING TENNIS, COED
Beginning. tennis offers training in the basic fundamentals of the game includ-
ing history, rules and etiquette.

## PE 3B (1)

intermediate tennis, coed
Prerequisite: PE 3A or approval of intructor. Offers training in the advanced cipation. Social etiquette of the game is stressed along with the worthy use of isure time
PE 3C (1)
ADVANCED TENNIS, COED 2 Hrs. Lab.
Prerequisite: PE 3 B or approval of instructor. Review and practice of fore hand, backhand, serve and volley; overstrategy and tactics for singles and doubles competition.
PE 4ABCD (1-1-1-1)
BADMINTON, COED
2 Hrs. Lab.
Etiquette, rules, background and tech niques of playing badminton.

## PE 5A (1)

BEGINNING SWIMMING, COED
This course is primarily concerned with leaching the student to successfully execute the proper strokes with empha is on safety.

## PE 58 (1)

NTERMEDIATE SWIMMING, COED
Hrs. Lab.
rerequisites: PE 5A or approval of in-
structor. This course is primarily conerned with the teaching of advanced Safety knowledge is also stressed.

PE 6 (2)
IFESAVING
11/2 Hrs. Lec. $11 / 2$ Hrs. Lab.
1/2 irs. Lec. $1 / 1 / 2$ Hrs. Lab.
Prerequisite: PE 5 B or approval of in-
structor. Techniqu structor. Techniques of life saving an water safety. This course meets require
ments of the Red Cross Senior Life Saving Certificate.

PE 7 (2)
PE 7 (2) TRAINING Hr. Lec. 2 Hrs. Lab. Prerequisite: Advanced Life-saving card for W.S.I. A course designed to acquain the student with the basic principles of advanced water safety skills. It will also
prepare the student to teach basic PE 14ABCD (1-1-1-1)
rescue and advanced life-saving, CPR RECREATIONAL GAMES, COED and basic first aid as it applies to water safety procedures. Successful completion of this course may include certificaSafety Instructor and as ard Cross Wate tor.

## PE 8A (1)

beginning bowling, coed
2 Hrs. Lab.
An introduction to the etiquette, rules
background and techne

## PE 88 (1)

INTERMEDIATE BOWLING, COED
2 Hrs. Lab.
Prerequisite: PE 8A or appro Prerequisite: PE 8A or approval of in-
structor. A follow-up of Beginning Bowiing stressing fundamental skills and score-keeping plus league bowling.
PE 9ABCD (1-1-1-1)
${ }_{2}{ }_{2} \mathrm{Hrs}$. Lab
Open only to students who are unablo to
participate in regular physical education program. Adapted Physical Exercise is
designed for the stut deeigned for the student who cannot course is specifically designed to meet the individual needs of these students.

PE 10 A (1)

| TEAM SPORTS Lab. |
| :--- |
|  |

2 Ars. 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 and basketball (men); volleyball and
.

E 108
PEAM (1)
2 Hrs. Lab.
nills troduction to fundamental physica skills and team games. Designed to
stimulate the development of and physical alertness and poise, and to encourage regular participation in a softball (men); basketball soccer and tennis (women). PE 108 may be taken
betore PE 10
before PE 10A.

## PE 11ABCD (1-1-1-1) VOLLEYBALL, COED

${ }_{2}^{2}$ Hrs. Lab.
A course designed to present the basic serve, setting of volleyball such as the Rorve, setting, spiking, and team play.
Rules and class competition

## RECREATIONAL GAMES, COED

 2 Hrs. Lab.participate in many activities chance to wise offered in the physical education curriculum. Recreation majors, physical education majors, and those just interested in setting up community recrea-
tion centers will find this course most valuable. Meets physical education activity requirement.
PE 15ABCD (1-1-1-1) FIGURE CONTROL FOR WOMEN 2 Hrs. Lab.
hysical conditioninged to emphasize Equips the student with a knowledge o exercises and conditioning activities which can be used to maintain physical PE 16ABCD (2-2-2-2)

## 4 Hrs. Lab.

Practice and performance class for songleaders and cheerleaders. Satisfies
physical education activity class re physical education activity class re
PE 17ABCD (1-1-1-1) 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 college and adult PE 18A
BEGINNING GOLF, COED
2 Hrs. Lab.
Offers training in the basic fundamen-
tals of strokes with putters: includes rules and etiquette of the game.
PE 188 (1)
INTERMEDIATE GOLF, COED
$2 \mathrm{Hrs}$. Lab.
Offers training in the advanced fundaparticipation upon the golf course Social etiquette of the game is stressed long with the worthy use of leisure time
PE 19A (1)
KARATE, COED
Designed to give the student an introduction to the basic movements and self-defense tactics used in Okinawan Kempo Karate.
PE 19B (1)
KARATE, COE
2 Hrs. Lab.
Prerequisite: PE 19A or permission of in structor. Course is designed to give the student greater skill and expertise in
using techniques and self-defense tac
tics learned tics learned in PE 19A. Kumite (free
sparring) will be a developing the skills learnent in further
PE 19C (1)
ADVANCED KARATE
2 Hrs. Lab.
Prerequisites: PE 19A and PE 198. This
course is designed course is designed to give the interand perfect pin - ans and fighting then niques learned in PE 19B. Breaking techniques will also be included as part
of the course. of the course
PE 20ABCD (1-1-1-1)
BICYCLING, COED
BICYCLING
2 Hrs. Lab.
Designed to provide physical exercis recreation and transportation.
PE 21AB (1-1)
HORSEMANSH
Hr.
1 Hr Lec. 1 Hr . Lab.
(Same as Ag 64AB)
PE 21C (1)
NTERMEDIATE HORSEMANSHIP.
1 Hr . Lec. 1 Hr . Lab.
(Same as Ag 66)
PE 22ABCD (1-1-1-1) RACQUETBALL AND HANDBALL,
2 Hrs. Lab
Instruction and development of the
handball skills. Presentation and doubles play, including basic shots and strategy.
PE 23ABCD (1-1-1-1)
BASKETBAL
2 Hrs. Lab.
Designed for women students interested in basketball. To offer basic and adstrategy.
PE 24ABCD (1-1-1-1)
BASKETBALL FOR MEN
${ }_{2}$ Anrs. Lab.
An introduction to the fundamental
skills and strategy of the and class competition are game. Rules the course.
PE 25ABCD (1-1-1-1)
FOLK DANCE, COED
2 Hrs. Lab.
Participation and instruction in basic
fundamentals, forms dancing. E 2 A
PE 26A (1)
2 Hrs. Lab. Dance as a creative art activity. Develop-
ment of individual movement vocabuary and the understanding of time
pace and force factors affecting move
ment.

PE 26B (1)
INTERM
2 COED
2 Hrs. Lab. structor. More advanced dance skills Improvisational problems using various
forms of motivation. More complex individual dance sketches and small group dance studies.
PE 27ABCD (1-1-1-1)
DISCO DANCE, COED
DISCO DAN
Hrs. Lab.
2 Hrs. Lab. sent day "disco" patterns.
PE 28ABCD (2-2-2-2)
3 Hrs. Lab. 1 Hr . by arrangement
Prerequisite: Permission of the instruc tor. A performance group presenting all A minimum of five outside performances required each semester. Meets physical education activity requirement.
PE 29ABCD (1-1-1-1)
2 Hrs. Lab
A study of syncopated movement.
PE 30AB (1-1)
2 Hrs. Lab. Instruction in the principles of Classical
Ballet, a stylized technique which develops muscle coordination as well as physical and mental discipline. This course is designed to give the student the tools
for creating good movement so that he for creating good movement so that he
and/or she can develop confidence poise and grace, along with an appreciation for the dance as an alt ase semes er the physical education requirement.
PE 31AB (2-2) NTERC
Hours to be arranged hall. Limited to students trying out fo varsity team. The students must sched 0 hours per week PE 32ABCD (2-2-2-2)
NTERCOL AND P.E.
Theory and practice of basketball. Limited to students trying out for varsity team. The student must schedule for a minimum of 10 hours per week.
PE 33AB (2-2)
INTEAB 12 LL Theory and practice of track. Limited to students trying out for varsity team. The

E 34AB (2-2) AND P.E.
Hours to be arranged to students trying out for varsity team The student must schedule for a min mum of 10 hours per week PE 35ABCD (2-2-2-2) NTERCOL EGIATE WRESTLING AND P.E. Hours to be arranged ed to students trying of wrestling. LimitThe student must schedule for mum of 10 hours per week. PE 36AB (2-2)
INTERCOLLEGIATE GOLF AND P.E. Hours to be arranged . Limited to students trying out for varsity team.
PE 37AB (2-2)
INTERCOLLEG

## NTERCOLLEGIATE CRO

 COUNTRY AND P.E. Hours to be arrangedIntercollegiate cross country running over a four-mile course. The student hours per week
PE 38AB (2-2)
PE 38AB (2-2) Hours to be arranged Eligibiitity will be determined by Desert will be permitted to take the class and work out with the team. IVC guideline in the AS Handbook for athietics we the also apply. Team membership men and women.
PE 39ABCD (2-2-2-2)
10 Hrs. Lab.
(Same as Ag 69ABCD
PE 40ABCD (2-2-2-2)
SYNCHRONIZED SWIMMING
4 Hrs. Lab.
Prerequisite: Consent of instructor. of swimming as an art form. The swimmer executes movements in time with music as a solo
other swimmers.

PE 41AB (2-2)
(2-2) AND P.E
P.t. be arranged

Prerequisites: Eligibility will be deter mined by Desert Conference rules. IVC guidelines in the Associated Students handbook for Athletics will also apply vidual a well-rounded knowledge in vol eyball. The course should help develop
a relationship of athletics to other matmanship and competition. The student must schedule for a minimum of 10 must schedure hours.
PE 42AB (2-2)
INTERCOLLEGIATE SOCCER AND P.E.
Hours to be arranged
Theory and practice of soccer. Limited Theory and practice of soccer. Limited to students trying out for a varsity team
The student must schedule for a minimum of 10 hours per week.
PE 44 (1)
PE 44 (1) DEFENSIVE TACTICS
2 Hrs. Lab.
(Same as LE 23)
PE 47 (2)
COACHING T
WRESTLING
2 Hrs. Lec.
Course designed to prepare physical education students winhe basick edge of wrestling fundamentais and new programs and conducting of tournaments.
PE $50{ }^{(2)}$ INTRODUCTION TO PHYSICAL EDUCATION
2 Hrs. Lec. education and areas of specializatio education and
within the field.

## PE 51 (2)

PE STUCTURING INTRAMURALS 1 Hr . Lec. 4 Hrs . Lab.
Prerequisite: Basic knowledge and/or experience in competitive sports and
recreational games. The course is derecieat to provide students experience in structuring various types of sports and recreat in the IVC intramural program.

## PE 52 (2)

Hrs. Lef BASEBAL
A history of the game, knowledge of rules, current and possible future trends in the game, coaching techniques and
scouting. Recommended for physica scouting. Recomm, potential coaches and recreation majors.

PE 53 (2) 2 Hrs. Lec. This course is designed for physica and potential coaches. Coaching tech niques and theories, history, rules an current and possibe will be offered.

PE 54 (2)
THEORY OF FOOTBALL
2 Hrs. Lec.
Provides students with fundamental
concepts, theories and techniques of concepts, theories and techniques of and interscholastic football.
PE 56 (2)
CARE AND PREVENTION OF
2 Hrs. Lec.
This course is designed for the coach, coach-trainer, physical education and
recreation student. Emphasizes the screening and conditioning of athletes, prevention, care and treatment of athletic injuries. Includes techniques of applying supportive materials, rehabilitation ities. Organization of a new athletic raining program.

## PE 58 (2) PSYCHOL

## 2 Hrs. Lec.

COACHING
Prerequisites: Sophomore status or per-
mission of instructor. A course cover all the aspects of the psychology of
coaching sports. Includes certain ing may be applied to the coaching of sports, and to bring out the relationship of meaningful learning to successful athletic coaching
PE 59AB (3-3)
SPORTS OFFICIATING, MEN
2 Hrs. Lec. 3 Hrs. Lab
officiating in highly the techniques of
and sports such as basketball, football.
wrestling, baseball, track and tennis.
Students must plan
three hours per week to officiate at elementary schools.

PE 60AB (3-3)
SPORTS OFFI
SPORTS OFICIATING, WOMEN ${ }_{2}$ Hrs. Lec. 3 Hrs. Lab.
To familiarize prospective physical edu-
cation majors and of team and individual sports for girls.
PE 61 (3)
PHYSICAL EDUCATION IN THE 3 Hrs. LTARY SCHOOL
3 Hrs. Lec.
This course is designed to prepare the
elementary scher whole child through physical education.
PE 62AB (3-3)
ATION FOR SPECIAL ${ }^{2}$ LYmPI Lec. 2He arranged 2
A dents to cesdigned to train college stupersons for competition in retarde


PL 22ABCDEFGH (2-2-2-2-2-2-2-2)
THE ART OF CONVERSATION
2 Hrs. Lec.
The development of a set of skills that will improve conversation abilities and

PL 23ABCDEFGH (2-2-2-2-2-2-2-2)
PL 23ABCDEFGH (2-2-2-2-2-2-2-2)
TACTILE ART FOR THE PHYSICALLY LIMITED
4 Hrs. Lab.
This course is designed to enrich the
aesthetic experience of the physically aesthetic experience of the physically
imited. Students will explore various art medias and methods PL 24ABCDEFGH (1-1-1-1-1-1-1-1)
GENERAL AND APPLIED MUSC FOR THE VISUALLY HANDICAPPED
2 Hrs. Lab.
course to provide experience with elements, basic structure and style. Application of skills involving sensitivity to rhythm, pitch, sound and structure of
music with individual and group participation in singing and in rhythmic accompaniment. Course designed for the visually handicapped.

## PL 30 (3)

NTRODUCTION TO SPEECH AND LANGUAG
This course is designed to acquaint the student with the normal speech and
language developmental sequence, and introduce him to deviations from normal patterns. Etiology, characteristics, and prognosis for various speech and lang-

## PL 31 (3)

PNTERVIEWING AND TESTING TECHNIQUES FOR SPEECH AND HEARING
Hrs. Lec.
A course designed to acquaint students with good interview techniques, and to provide experience in administration of basic speech and language screening
materials. The students will gain insight into test design and factors affecting test outcomes.
PL 32 (3)
BEHAVIOR MODIFICATION TECHNIGUES FOR SPEECH AND 3 Hrs. Lec.
Prerequisite: Psych 1A or Psych 5 and course designed to introduce the student to principles of behavior modification as used in speech and hearing pa-
thology, to enable him to isolate modifiable behavior, and to successfully modify simple behavior patterns.

PL 33 (3)
INTRODUCTION TO AUDIOLOGY 3 Hrs . Lec. 1 Mr . Lab.
This course includes an introduction to the science of hearing, fundamentals of testing, basic anatomy and physiology of the hearing mechanism, pathologies causing impaired hearing, interrelationship of hearing to speech and language
development, and familiarization with development, and familiarization with
audiologic assessment and clinical procedures.
PL 34 (3)
PL ${ }^{34}$ (3) CONSERVATION
3 Hrs. Lec. 1 Hr. Lab.
Prerequisite: PL 33 recommended. This
course includes identification metry, pre-school hearing screening, industrial audiometry, and the role of the audiometrist, nurse-audiometrist and
speech-hearing therapist in the total speech-hearing therapist in the
conservation of hearing program.
PL 40 (3)
INTRODUCTION TO PHYSICAL THERAPY
3 Hrs. Lec.
THERAPY
Ars.
Lec.
A course dealing with the most common types of neurological and orthopedic
problems and various methods of physical therapy used in treatment of these problems.
PL 41 (3)
INTRODUCTION TO OCCUPATIONAL THERAPY
3 Hrs. Lec.
3 Hrs. Lec.
An introduction to the basic philosophy. principles and techniques used in occupational therapy. This course will survey rehabilitation of specific disabilities,
facilities employing OT , faciilies emplaying O.T. specialists,
neuro-muscular integration, activities of daily living, principles of self-care, personal hygiene and transfer techniques.
Activities and field trips to Activities and field trips to clinics are
required.
PL 50 (3)
SHOP MATHEMATICS
3 Hrs . Lec
(Same as
(Same as
Weld 50)
PHYSICAL SCIENCE
PHYS SCI 25 (4)
INTRODUCTION TO PHYSICAL INTRODU
SCIENCE
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 Bio 3 for a
year course in the basic principles of natural science.

## PHYS $2 A$ (4) GENERAL PHYSICS

 3 Hrs. Lec. 3 Hrs. Lab.Prerequisites: Algebra; trigonometry
strongly recommended. mechanics and heat. Statics, uniform motion, accelerated motion, work and nentals of heat and heat flow, properties of gases.
PHYS 2B (4) 3 Hrs. Lec. 3 Hrs. Lab.
Prerequisite: Phys 2A. Simple harmonic motion, sound, doppler effect, acoustielectricity, Ohm's Law, light, spectro scopy, geometric optics, modern phy sics.
PHYS 4A (4)
PRINCIPLES OF PHYSICS
${ }^{3}$ Hrs. Lec. 4 Hrs. Lab.
rerequisite. in Math for or concurren enroilment in Math 3A. This course is undamental principles of mechanics.
PHYS 4B (4)
PRINCIPLES OF PHYSICS 3 Hrs. Lec. 4 Hrs. Lab. rerequisite: Phys 4A and credit or concourrent enrollment in Math 3B. This tanding of the fundamental principles of physics in
magnetism.
magnetism.
PHYS 4C (4)
PRINCIPLES OF PHYSICS
3 Hrs. Lec. 4 Hrs. Lab.
rerequisites: Phys 4 B and completion give an understanding of the funda mental principles of physics in the are of heat, wave motion, sound, light, and modern physics.

PHYSIOLOG

## HUMAN PHYSIOLOGY

HUMAN PHYSIOLOGY
2 Hrs. Lec. 6 Hrs. Lab. rerequisites: Chemistry and Biology o Anatomy at either high school or col
legiate level. The functions of the human ody; emphasis on the circulatory, mus ular, and nervous systems. POLITICAL SCIENCE

## OLY SCI 1 (3)

NTRODUCTION TO POLITICAL SCIENCE
Hrs. Lec.
An introduction to the theories, princi-
An introduction to the theories, princi-
ples and problems of modern political
lite and the methods of studying and ac quiring political knowledge. Illustrative
materials drawn primarily from the American experience. This course and either Poly Sci 2 or Hist 17B will meet graduation requirements in American POLY SCI 2 (3)
government and Hrs. Lec.
he origin, development and operation of local, state and national political instithe contemporary operations American political system. This course and either Poly Sci 1 or Hist 17 A will
meet graduation requirements in Ameri
can institutions. May be taken before
Poly Sci 1.

## POLY SCI 3 COMPARATIV

3 Hrs. Lec.
Prerequisite: Poly Sci 1 or 2. A compara-
tive study of modern political
tive study of modern political systems.
Emphasis upon
tion and problems of decision-making in
various cultural contexts.
POLY SCI 14 (3)
INTERNATIONAL RELATIONS
$3 \mathrm{Hrs}$. Lec.
An introdu
An introductory course stressing the factors making for conflict the basic ment in contemporary international ations. Problems of nationalism and im causes of war, methods of powe peace, the role of international organizations, and the foreign policies of the
major powers will be consider phasis will be upon contemporary. Em opments.

PSYCHOLOGY
PSYCH 1A (3)
GENERAL PSYCHOLOGY
3 Hrs. Lec.
Prerequisite: Twelth grade reading leve
ability is recommended his course. An introduction to the fun damental principles and concepts o human behavior. Includes consideration of human development, learning, bio ehavior, mental health, motivation and emotion
PSYCH 18 (3)
3 Hrs. Lec. This cours.
mis course is designed to explore the


Prerequisite: Math
(Same as Math 12)

PSYCH 13AB (3-3)
OUNSELINOFESSIONAL IN 2 Hrs. Lec. 3 Hrs. Lab.
A course designed for student parapro
fessionals to increase their ness, assertiveness, communicareskills, and helping skills. Topics covered include an overview of theories and research on human development and bebavior; characteristics of the "healthy"
personality; issues faced by college stupersonality; issues faced by college stu-
dents; types of change agents; techniques for facilitating change; group dy-
namics; ethics and the namics; ethics and the role of student paraprofessionals in college settings.
Two hours lecture, three hours spent weekly in supervised on-campus exper-
iential placements such as in iential placements such as in peer coun-
seling, tutoring, etc. (Same as HR 13AB) PSYCH 14 (3)
ychologr
Prerequisites: Psych 1A. Recommended: Psych 2 and Psych 3 . This course re-
views the causes and problems of disviews the causes and problems of dis-
ordered behavior. therapy and prevention are emphasized The topics of anxiety and fear, psychoneuroses, organic and functional psyhoses are included.
PSYCH 15 (3)
SYAMAND PSYCHOLOGICAL
3 Hrs. Lec. OF DRUG USE
Prerequisite: Completion of, or concur
rent enrollment in, Psych 1A, Psych 1 B
Sociol 1 or Sociol 17 is recomen This course views drug ise 17 is rended This course views drug use behavior
from a sociological and psychological perspective. It includes an analysis o actors contributing to drug use; societal influences, subcultural influence, pri-
mary group influences (peer group, and mary gromily, andluences (peer group, and
the ics and development. It encompasses illegal as well as legal drug use, particularly alcohol. Some emphasis will be
given to potential solutions and preven-
tive mether tive methods which could be of prevenen-
value to parents value to parents and various profession-
al and semi-profession al and semi-professional workers
(Same as Sociol 15)

PSYCH 16 (3)
THE PSYCHOLOGY OF
NTERPERSONAL RELATIONSHIPS
An investigation of the dynamics of in
terpersonal relationships. Starting, de-
veloping, understanding and veloping, understanding, and improving our relationships with others will be the ove, jealousy, meeting people, communications skills, self-disclosure, fai fighting techniques, sex roles, person perception, and transactional an
ecture-discussion-experiential

## PSYCH 17 (3)

hology A study of the social and psychological aspects of how people interact and influence each other. The course will cover
such topics not included in Psych 1 A or Sociol 1 as: methods and ethics of re search, influence, attitude changes, persuasion, and propaganda, aggression,
cooperation and competition, conformity, prejudice, communication, affiliation, dynamics of group structure, in Cluding leadership and role playing. These topics are covered at both the
theoretical and practical levels. (Same as Sociol 17)
PSYCH $20(3)$
DEVELOPMENTAL PSYCHOLOGY OF CHILDREN
3 Hrs. Lec.
A study of the psychological developand 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 children's behavior, intelligence, learning, mental and physical well-being, and motivation.
The factors covered would include The factors covered would include
heredity, environment, maturation, and heredity, environment, maturation, and ogy. (Same as ECE 20)
PSYCH 21 (3)
EARLY CHILDHO SOCIALIZATION: CHILDREN, FAMILY A
3 Hrs . Lec
3 Hrs. Lec.
(Same as ECE 21 )
PSYCH 22 (3)
PSYCH 22 (3)
PRINCIPLES OF CHILD
PRINCIPLES OF CHILD 3 Hrs. Lec.
PSYCH 23AB (3-3)
DEVELOPMENTAL CURRICULUM
DEVELOPMENTAL
3 Hrs. Lec.
(Same as ECE 23AB)
PSYCH 24 (3)
CREATVE LEARNING EXPERIENCES FOR PRE-SCHOOL CHILDREN ${ }_{3} \mathrm{Hrs}$. Lec.
(Same as ECE 24)
PSYCH 25AB (3-3)
FIELD EXPERIENCE
1 Hr . Lec. 10 Hrs . field experience
1 Hr. Lec. 10 Hrs. field
(Same as ECE 25AB)
PSYCH 26 (3)
PSYCHOLOGY

## 3 Hrs. Lec. This course

This course is Lec. ents and parents-to-be with practica down-to-earth methods of being good
parents. While it is based on sound psy-
chological principles, its content wil be theoretical but practical, giving examples and illustrations on aspects of sound parenthood. (Same as ECE 26) PSYCH 27 (3) UNDERSTANDING EXCEPTIONAL
STUDENTS STUDENTS
2 Hrs. Lec. 2 Hrs. Lab.
Prerequisites: Psych 20/ECE 20 or Prerequisites: Psych 20/ECE 20 or
Psych 1A. A psycho-educational approach to the study of exceptional students including physical, mental, emo-
tional, sensory, speech, and learning disabilities. Designed for parents, as well as, for teachers and paraprofessionals, working with exceptional stu-
dents. Surveys the entire spectrum from gifted to retarded through observation, participation and lecture. Students will learn how to develop teaching strategies for all the exPSYCH 28 (3)
PSYCH 28 (3)
ADMINISTRATION AND
SUPERVISION IN EARLY CHILDHOOD EDUCATION
3 Hrs. Lec.
(Srame as ECE 28)
PSYCH 29 (1)
CHILD DEVELOPMENT ASSOCIATES INTRODUCTION AND INITIAL
1 Ar. Lec.
1 Hr. Lec.
(Same as ECE 29)
PSYCH 30 (3)
PSYCHOLOGY OF ADOLESCENCE
Deals with the practical aspects of the
development and growth of adolescence. Particular attention is given to
the influences, settings, and problem areas of adolescence and youth PSYCH 35 (3)
DEVELOPMENTAL PSYCHOLOGY: CONCEPTION TO DEATH
Prerequisites:
None (Psych 1A recommended). A study of the psychological development of human beings from convelopment, infancy, toddlerhood de schoolers, middle childhood, adolescence and adulthood including old age and death. The course will cover major search, and problem areas of both a social and psychological nature.
PSYCH 40 (3)
PSYCHOLOGY OF CRISIS COUNSELING
3 Hrs. Lec.
Prerequisite: Psych 1A. A course de-
signed to familiarize the student with
signed to familiarize the student with a
basic understanding of the causes, tional illness, especially relevant to crisis situations.

PSYCH 41 (3)
SOCIETY
3 Hrs. Lec.
Course par
Course participants will examine various issues related to the changing status
of single people in contemporary of single people in contemporary
America. Participants will consider the economic, social, and personal differences between being single and being
coupled, and will have an opportunity to coupled, and will have an opportunity to
clarify their own attitudes and choices regarding single vs. coupled.
PSYCH 46 (3)
THE MENTALY ILL, ALCOHOLIC,
TRE MENTALLY ILL, ALCOHOL DRUG. Lec.
Prerequisit
Prerequisite: Psych 1 A is recommended. An integrated approach to the under-
standing of laws governing the treatment of the emotionally disturbed indi-
vidual, alcoholic, and drug addict as vidual, alcoholic, and drug addict as
seen from the viewpoint of the professeen from the viewpoint of the profes-
sional, paraprofessional, law enforcement and the courts. (Same as Law Enf 46)

RECREATION
REC 70 (3) 3 Hrs. Lec.
3 Hresents the basic ideas and problems
in our contemper in our contemporary society and projects our disposal. The course shows the need our disposal. The course shows the need
of our citizenry to cope successfully
with the pressures of our daily lives and with the pressures of our daily lives and
have a balanced and meaningful use of leisure time in maintaining mental and physical health.
REC 71 (3)
SOCIAL RECREATION
SOClaL. Lec.
A Hrser
A theory and activity course designed to mation necessary to effectively conduct social recreation in clubs, playgrounds, recreation centers, churches and camps. Emphasis is on the social devel-
opment and integration of individuals into group programs, including planning, programming, and conducting activities. REC 72 (3)
OUTDOOR RECREATION 2 Hrs. Lec. 3 Hrs. Lab.
History, development, principles and trends of organized camping, nature and conservation, and outdoor recrea-
tion. Laboratory and field trios, includtion. Laboratory and field trips, includ-
ing camping and hiking activities. Practical skills in firecrafts, outdoor cooking and backpacking. Leadership training in camp counseling. Required for recrea-
tion majors. (Will not satisfy PE requirement.)

REC 73 (4)
RECREATION FOR SPECIAL GROUPS
2 Hrs. Lec. 4 Hrs. Lab. Field work in therapeutio the community. The special groups in phasis area is dedicated to understand ing and serving individuals and groups ational needs. Students must plan for two additional hours by arrangement. REC 74 (3)
INTRODUCTION TO COMMUNITY ${ }_{3}$ RECREATION
$3 \mathrm{Hrs}$. Lec.
For recreat
gor recreation majors and non-majors, a
gerientation to the field of jocrer gen and parks, including a history of the
tion and
develo development of the recreation profes-
sion, a survey of recreation and leisure services, description and interpreisure of recreation as a form of community service and the nature and scope and
significance a social force in contemporary sotion as Emphasis is on the role of the poliety. sional leader in a variety of settings.

SOCIAL SCIENCE

## SOC SCI 52 (3)

## NTRODUCTION TO AMERICAN

GOVERNMENT
3 Hrs. Lec.
major chaction to the foundations and major characteristics of the govern-
ments of the United nia, stressing United States and California, stressing the politital habits of the
American American people within a historical set-
ting. This course will meet the gran ting. This course will meet the gradua-
tion requirement in American Institutions at Imperiai Valley College, but is offered to students who do not intend to to students with credit in Hist 17AB or
Poly Sci 1 .

SOC SCI 69
SOC SCI 69 (3)
PERSONAL
${ }^{3} \mathbf{H r s .}$. Lec.
(Same as Bus 11)

## SOCIOLOGY

## SOCIOL 1 (3)

3HINCIPLE.
An introc.
An introductory course to the field of
sociology. A study of the charatid of social life which emphasizes the tistics
cesse cesses of social interactions that are en-
countere ountered in everyday living. A study of
social structure social structure, social parterns, and
social institutions as they relate to social institutions as they relate to life
in the United States.

SOCIOL 2 (3)
PROBLEMS
3 Hrs Lec.
Prerequisites: Sociol 1 or Psych 1A. This course deals with contemporary social problems and will cover those areas that
are currently being defined by ty as problem issues. Emphasis will be ty as problem issues. Emphasis will be
given to understanding these problems on the societal level, the group problems
from the from the standpoint of the individual.
SOCIOL 10 (3)
SOCIOLOGY OF MINORITY GROUPS
3 Hrs. Lec.
This course includes the study of the
theories of prejudice and discrimination of different groups within American society. It will cover a historical analysis of the problems of these groups and
typical areas will include racism agism, and ethnic and religious discrim, ination.
SOCIOL 15 (3)
SOCIAL AND PSYCHOLOGICAL
DYNAMICS OF DRUG USE
3 Hrs. Lec.
3 Hrs. Lec.
(Same as
Same as Psych 15)
SOCIOL 17 (3)
SOCIAL PSYCHOLO
3 Hrs. Lec.
(Same as Psych 17)
SOCIOL 33 (3)
MORIOL 33 (3)
3 Hrs
3 Hrs. Lec.
An analysis of factors predictive of sucfocused mapon such family proctention courtship, marriage, reproduction child rearing, and marital dissolution.
SOCIOL 41 (3)
MASS SOCIOLOGY AND
COLLECTIVE BEHAVIOR
3 Hrs. Lec.
This course
This course will study the formation and
evolution of evolution of groups and group behavior participants, audience and outsiders will
pe be used to examine the reltionships of the individual to the group, groups to
each other, and social movements and each other, and social movements and
collective behavior. Problems of social control and change wiil be explored as they relate to group behavior, mass
crowd behavior, social movements, and riots. (Same as Law Enf 41)
SPANISH

High school Spanish
used to meet the dish courses may be vanced Spanish prerequisites of adlanguage inde training in all four basic language skills: listening, speaking,
reading and writing. The courses must
have included phonetics, practice both guided and free conversation in
well as in reading ing and listeading aloud; testing in reading from dictation; and word-picture association. These high schoold-picture
will not courses will not count as college credit toward
graduation. Placement will be examination and/or consent of the by
structor. structor. Contact the IVC Counseling Center for further information.
The last year course taken by dent in the high school language se-
quence may be repeated quaduation credit repeated in college for units of repeated foreign language work For advance placement, at least one the year prior to entering have been taken wise, it is suggested that the student en roll in Span 1 .
The above requirements may the instructor.
SPAN 1 (4)
ELEMENTARY SPANISH
Hrs. Lec. 1 Hr . Lab.
to speak and read English. Not be able
to students with native ability in Spanish
sta (See Span 20A) For additional in opal prac
tice, tice, concurrent enrollment in Span 5A
is recommended. The beginning is recommended. The beginning Span
ish course is based on a contrastive analysis between Spanish and English and is designed to develop in the En-glish-speaking student rudimentary hearing, speaking, reading and writing The main emphasis is on the present Tense of both regular and irregular verbs. these features of Hispanic culture whith reflect the different frame of reference from which the native speaker of Span-
ish views the world around him. ish vews the world around him

## SPAN 1A (2)

2 HTs.
Prerequisite: The student must be abl
to speak and read English. This course is one-half the content of the regular Span course. Completion of Span 1 A and 1 B 1. and the total of 4 units.

SPAN 18 (2)
Hrs. Lec. $1 / 2$ SPANISH
Prerequisite: $\operatorname{span} 1 \mathrm{Hr}$. Lab. The student must be able to speak and read English. For additiona oral practice, concurrent en-
rolliment in Span $5 A$ is recommended. This course is one-half the content the regular Span 1 course. Completion equivalent of $S$ pan sequence will be the equiva




SPECIAL STUDIES 51 or 81 (1-3)
VOCATIONAL EDUCATION
Hours by arrangemen
SPECIAL STUDIES 52 or 82 (1-3) HUMANITIES
Hours by arrangemen
SPECIAL STUDIES 53 or 83 (1-3) ENGLISH
Hours by arrangement
SPECIAL STUDIES 54 or 84 (1-3) NATURAL SCIENCE
SPECIAL STUDIES 55 or 85 (1-3) Hours by arrangemen
SPECIAL STUDIES 56 or 86 (1-3) BUSINESS

SPECIAL STUDIES 57 or 87 (1-3) AND RECREATION
Hours by arrangemen
SPECIAL STUDIES 58 or 88 (1-3) SPECIAL STUL SCIENCE
BEHAVIORAL
Hours by arrangement

SPECIAL STUDIES $51-8$ 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 semesavailable staft. Notofiered every semes-
ter. Courses numbered $81-88$ are non-
transferable.

SPEECH
SP 1 (3)
ORAL COMMUNICATION
3 Hrs Lec.
Training in the fundamental processes emphasis on organizing material, outemphasis on organizing material, out-
lining, constructing, and delivering various forms of speeches

## SP $2(3)$ INTERME

3 Hrs. Lec. 3 Hrs . Lec.
Prerequisite: Sp 1. A continuation of Sp
1 with particular emphasis 1 with particular emphasis on organiza-
tion and delivery, and study in the areas of parliamentary, procedure, debate, discussion, and oral reading

## SP 10 (3)

3 Hrs. Lec.
Prerequisite: Sp 1, taken previously or
Prerequisite: Sp 1 , taken previously or
concurrently. An introduction to the
problems of evidence and inference with emphasic to rational discussion of social logic to ra
problems.
SPAL INTERPRETATION READERS THEATRE Hrs. Lec.
Discovering and imparting, vocally, inprinted page.
SP 12ABCD (1-1-1-1)
Hr. Lec.
rerequisites: Eligibility for Eng 1A and permission of the instructor. Sp 1 and upon participation in forensic or compeitive speech activities as a member of the IVC Speech Team. Student must be prepared to meet the following: 1) be with instructor during the semester (by arrangement with instructor); 2) be prepared to attend at least two forensi SP 30 ( 3 ) VOICE.AND ARTICULATION DEVELOPMENT
3 Hrs. Lec.
Satisfies the requirement of voice and ommended for those planning careers in elementary education, special educaingual education majors. En and bistudent to develop a pleasant voice and manner of expression. The various prob ems of voice and diction are presented duction and phonetics. Drills for the improvement of the student's voice are presented. Recommended for bilingual
students to improve their articulation and English language usage.

TEACHER AIDE
TA 1 (3)
NTRODUCTION TO EDUCATION
NARB. Lec.
3 Hrs.
Introductory
sted in a course for students interAssociate or in a teaching credential. goals, new directions, problems and issues in public education today, organzation of school systems, financial and legal aspects of teaching, career opporate requirements, and use of instruc tional media in the classroom.
TA 2 (3)
NTRODUCTION TO NSTRUCTIONAL ASSOCIATE
3 Hrs. Lec. Prerequisite: TA 1. For students planning to become Instructional Associate
in elementary school. Defines terminology; legal status in California; needed
functional, clerical and mechanical skills; role in classroom and in community: reviews duties, responsibilities, pos-
itive relationships with students, teachitive relationships with students, teach-
ers, administrators, parents; provides iners, administrators, parents; provides in-
formation on employment trends, ways to find jobs and to further career.
TA 3 (3)
PSYCHOLOGY OF PERSONAL AND SOCIAL ADJUSTMENT
3 Hrs. Lec.
(Same as Psych 3)
TA 4 (3)
NTRODUCTION TO BILINGUAL MULTICULTURAL EDUCATION Prerequisite: TA 1 and TA 2. A history of the development of goals and philosotion. A study of various implemented programs and the role of the instructional aide in a bilingual-multicultural classroom. Also includes the techniques of second language.

TA 5 (3)
CURRICULUM AND INSTRUCTION 3 Hrs. Lec.
Prerequisites: TA 1, TA 2, TA 4. A continuation of the basic program in TA 4. Also bilingual-multicultural materials in various subject areas and the methods of eaching all subiect areas in the bilin-gual-multicultural classroom.

TA 6 (3) INSTRUCTIONAL ASSOCIATE 3 Hrs. Lec.
Prerequisite: TA 2 . Introduction to bas language art skills of listening, speaking, reading and writing needed for instrucschool. Experiences in use of children's literature, commercial materials. Covers grade level readiness criteria.

TA 7 (3)
CREATIVE ARTS FOR
INSTRUCTIONAL ASSOCIATE INSTRUCTI
3 Hrs. Lec.
Prerequisite: TA 2. Current trends and methods in instructing children at the elementary school in art, crafts, music. cal education, fundamentals of first aid and safety. Covers effective use of materials, techniques, creative thinking, innovative practices through use of
demonstrations, project making, laboratory experiences and school visitations.

## TA 8 (3)

ICS FOR

## instructional associate <br> 3 Hrs. Lec.

Prerequisite: TA 2. Understanding of system, numeratips of the real number system, numeration systems, mathema-
tical sets, philoso matics. Emphasis on providing matheeffective techniques for instruction of elementary school children. Study of visitations to observe programs schools,

## WATER TREATMENT TECHNOLOGY

## WT 1 (4)

WATER TREATMENT PLANT 3 Hrs. Lec. 3
Prerequisite. Mrs. Lab.
score on math placement test 51 or satisfy
course will provide information needed
ooperate a basic fresh-water treatment
will consist of start-up operation, daily peration, interpretation of laboratory sults, and possible approaches to

## WT 2 (4)

OPARER TREATMENT PLANT
Hrs. Lec. 3 Hrs
Prerequisite: WT 1. Lab. Study of fresh-water maintenance, safety, sampling, labora tory procedures, hydraulics, records
WT 3 (4)
WT 3 (4)
3 Hrs. Lec. 3 Hrs. Lab.
Prerequisite: Math 51 or satisfactory
score score on math placement test. This
course will provide to operate a waste-water treatment plant as efficiently as possible. Course will consist of start-up operation, daily oper-
ation, inter ation, interpretation of laboratory re-
sults, and sults, and possible approaches to solv-
ing operational problems. WT 4 (4)
WASTE WATER TREATMENT II
3 Hrs. Lec. 3 Hrs. Lab.
maintenance, safety, samplingte-water tory procedures, hydraulics, records
WT 5 (3)
ATER-BORNE DISEASES
3 Hrs. Lec.
his course is designed to give water hd waste water treatment plant operadures anderal knowledge of the procetion and control of water-borne dis-
eases Thel eases. The subjects covered are: Water-
Dorne Diseases; Water purities; Standards: Elementary and Im-
and Microbiology; Basic Hydraulics and WELD 36A (3)
Hydrostatics: Treatment; Cross Connections; Sampling; Bacteriological 2 Hrs. Lec WEELDING Tests Commonly Used in Water Sanita-

## WT 6 (3)

FOR TREATMENL PROCEDURES OR TREATMENT PLANT
3 Hrs. Lec.
This course is designed to give water
and waste water treat general knowled teatment operators a ics as applied to treatment plant omat tions. The subjects covered are: calcula tion of treatment plant problems; frac
tions portions; decimals; percentages; ratio; pro metric system conversion; estimation waste water collections; and preliminary treatment problems

## WT 7 (3)

COMPUTATIONAL PROCEDURES FOR TREATMENT PLANT
OPERATOR II
OPERATOR
3 Hrs. Lec.
Prerequisite: WT 6. This course is designed to give water and waste water
treatment lreatment operators a general know-
ledge of basic mathematics to treatment plant operations. The subjects covered are: Mathematics pertaining to primary treatment; secondary
treatment; trickling filters: clarifiers; activated sludgers; sludgecondary ment and disposal; effluent treatment and disposal; and laboratory calcula-
tions.
$\qquad$

## WELD 30 (3)

2 Hrs. Lec. 4 Hrs. Lab
Theory, practice and application of arc
welding processes. Flat horizo
tical and processes. Flat, horizontal, ver-
tical and overhead positions. Mild steel
stainless steel and cast iron. Electrede stainiess steel and cast iron. Electrode
classification and application. Joint design and mechanical testing.

## WELD 32 (3)

2 Hrs OCETYLENE WELDING 2 Hrs. Lec. 4 Hrs. Lab. ing metals by the application of joincess. Includes metal cladding cutting and bronze welding.
WELD 34 (3)
INERT GAS SHIELDED ARC WELDING 2 Hrs. Lec. 4 Hrs. Lab. Theory, practice and application of
Tungsten-Inert-Gas Tungsten-Inert-Gas processes on alum-
inum, stainless steel, mild other exotic metals.

## 2 Hrs . Lec. 4 Hrs . Lab

 Prerequisites: Weld 30 approval of the instructor Weld 32 or trated course in Shielded A concenWelding (SMAW) where the student Arcvelops his welding skill to velops his welding skill to a professional entry level on flat plate in all possitions.
Includes a review cutting.
WELD 36B (3)
ADrs.
2 Hrs. Lec. 4 Hrs. Lab
sion of instructor. Emphasis is in isfield of metal fabrication with is in the welding of design, layout, fitting, and forms of Arc, Tig, Mig, and. Advanced are included with a study and Gas welding isms of welding equipment.
WELD 36C (3)
ADVANCED WELDING
Prerequisites: Weld 36 B or by permis field of the study of metals and in the lurgy of welds. Studies are concentrated on the testing of metals, the atomic metals and thals, the effects of heat on metals, and the effects of welding on
metals. WELD 38 (3)
SHEET METAL FUNDAMENTALS
2 Hrs. Lec. 4 Hrs. Lab.
of planning practice in the fundamentals of planning, layout, pattern develop-
ment and fabrication of flat shen into useful products. WELD 50 (3)
SHOP MATHEMATICS
3 Hec.
(Same as Ag 50, Auto Tech 50, Math 50
and PL 50)
WELD 75 (3)
AUTRODUCTION TO INDUSTRIAL/
3 Hrs. Lec
(Same as Auto Tech 75/Ag 75)

## COOPERATIVE WORK EXPERIENCE <br> Cooperative Work Experience Educa gram by Imperial Valley eductional pro College and the community employits It is an approved program of activities and objectives which in college. The college provides the by the college. The college provides the organ- ization, the class facilities and the personnel to coordinate the program. The employers provide places tow 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. All students re required to be entered in a sertificats or degree program. General work experience courses are not approved for veteran's benefits.

PRSONAL EFFICIENC
1 Hr. Lec. 10 Hrs. Lab.
Emphasis is placed on the capacity and tasks, securing an appropriate position and increasing efficiency with work progress. Laboratory work will be arranged any occupation but must have educational value for the student.

## WE GEN 71 (3)

1 Hr. Lec. 10 Hrs. Lab
Motivation is studied from the employees and employers perspective. Per-
sonal leadership development and improvement is emphasized. Laboratory work will be arranged with the employer. The work may be in any occupation but nust have educational value for the ludent

## WE GEN 72 (3) <br> LABOR AND THE ECONOMY

Hr. Lec. 10 Hrs. Lab.
are discussed. Thagement relationships on labor and the economy is empha sized. Employee procurement, collective bargaining and the labor movement is part of the instruction. Laboratory work will be arranged with the employer. must have educational value for the student.
WE GEN 73 (3) 1 Hr . Lec. 10 Hrs. Lab
Labor laws that affect the welfare and security of employees are emphasized. ance, workman's compensation, social security and taxes are among laws discussed. Laboratory work will be ar-
ranged with the employer. The work may be in any occupation but must have educational value for the student.

## WE OCC 80 (4)

ERSONAL EFFICIENCY
1 Hr . Lec. 15 Hrs. Lab.
efficiency of accomplishing desity and asks, securing an appropriate positio and increasing efficiency with work prowith employer. The work must be in the field of the student's planned course of occupational training.

## WE OCC 81 (4)

1 Hr Lec. 15 Hrs Lab
Motivation is studied from the employee's and employer's perspective. Perprovement is emphasized. Laboratory work will be arranged with the employer The work must be in the field of the student's planned course of occupational

## WE OCC 82 (4) LABOR AND THE ECONO LABOR AND THE LC. 1 Hr. Lec. 15 Hrs. Lab.

Labor and management relationships are discussed. The effect of governmen on labor and the economy is empha-
sized. Employee procurement tive bargaining and the labor movement is part of the instruction. Laboratory work will be arranged with the employer. dent's planned course of occupational training.

## WE OCC 83 (4)

 1 Hr. Lec. 15 Hrs. LabLabor' laws that affect security of employees are welfare and industrial welfare, unemployment insur-
ance, workman's security and taxes ampensation, social cussed. Laboratory work will be disranged with the employer. The work planned course of of the student's ing.
$\qquad$
$\qquad$
ZOOL 1A (4)
GENERAL ZOOLOGY
2 Hrs. Lec. 6 Hrs. Lab
Prerequisite: Any year course in a high lent. Introduction to basic princ equivaanimal biology with reference to structure, functions, classification, heredity, and the environment of animals in gen-
zool 1B
GENERAL ZOOLOG
2 Hrs. Lec. 6 Hrs. Lab.
Prerequisite: Zool 1A. Continuation of
Zool 1A with emphasis upon comparative anatomy and physiology, development of vertebrate forms and their interionships
ZOOL 10 (3)
INTP OF THE PAST: AN
PALEONTOLOGY
3 Hrs. Lec.
(Same as Geol 10)

## MAJORS

Generally, 18 units of specified course work will satisfy the quire more than 18 units. Please nover, some majors will rerequired units at the beginning of each major description of
The following definitions apply to the major descriptions
hown in this catalog

1. Required courses are the specific courses which must Accer requirements in an area of study. may select in order to meet the from which the studen The total number of meet the total units requirement plus the number of units selected by the course list. the acceptable course list must equal at least the total
Col major
Courses recommended as electives are beyond the only, and selection from this list depends upon the student's individual desire and depends upon the electives available within his own program.
Students may satisfy the major requirements in the follow
ing fields of study:

## AGRICULTURAL BUSINESS

wenty-four units required for the major

$$
\begin{align*}
& \text { Ag } 14 \text { Entomology } \\
& \text { and Manal Business Organization } \\
& \text { Ag } 40 \text { Soils ........... }  \tag{3}\\
& \begin{array}{l}
\mathrm{Ag} 41 \\
\mathrm{Ag}
\end{array} \\
& \begin{array}{l}
\text { Soils } . . . \\
\text { Fertilizers }
\end{array} \\
& \text { Weeds and Weed Contro } \\
& \text { Ag } 49 \text { Weeds and Weed Contro } \\
& \text { Ag } 27 \text { Agricultural Sales and Service } \tag{3}
\end{align*}
$$

## AGRICULTURAL CHEmical technology

wenty-two units required for the major
Required courses for the major
$\begin{array}{ll}\text { Ag 14 } \\ \text { Ag 28 } & \begin{array}{l}\text { Entomology ............... } \\ \text { Heavy Equipment Operation } \\ \text { and Maintenance ............ } \\ \text { Soils }\end{array} \\ \text { Ag } 40\end{array}$
$\begin{array}{ll}\mathrm{Ag} 40 & \text { Soils } \\ \mathrm{Ag} 41\end{array}$
Ag 41
Ag 49
Soils.
Fertilize
Weeds and Weed Contro
II. Acceptable courses for the major ( 5 units irm lowing courses)

| Ag 30 | Agricultural Mec |
| :---: | :---: |
| Ag 32 | Irrigation and Drainage |
| Ag 33A | Farm Power .......age |
| Ag 37 | Small Gasoline Engines |
| Ag 45 | Vegetable Production |
| Ag 65 | Control of Insects \& O |
| Bot 1A | General Botany |
| Chem 2A | Introduction to Chemistry |
| Eng 7 | Technical and Report Writ |
| WE Occ 80 | Personal Efficiency .... |
| WE Occ 81 | Motivation ....... |
| WE Occ 82 | Labor and the Economy |
| WE Occ 83 | Laws Affecting Employee |
| Weld 30 | Arc Welding ........... |
| Weld 32 | Gas Welding |



Twenty-two AGRICUTLRUAL MECHANIC
Requir uncer for the major

| Ag 28 | Heavy Equipment Operation and Maintenance |
| :---: | :---: |
| Ag 30 | Agricultural Mechanics |
| Ag 33A | Farm Power .......... |
| Weld 32 | Arc Welding |

1. Acceptable courses for the major ( 3 units from the fol
Ag 33 B
Ag 35
Ag 36
Ag 37
Ag 38
Ag 50
WE Occ
WE Occ
WE Occ
WE Occ

Farm Power
Fluid Power animal science
required for the major

| Ag 20 | Animal Scienc |
| :---: | :---: |
| Ag 21 | Feeds and Feedin |
| Ag 22 | Livestock Selection |
| Ag 23 | Animal Diseases. |
| Ag 24 | Horse Husbandry |

Horse Husbandry
Acceptable co
lowing courses
$\mathrm{Ag} 14 \quad$ Entomol
Ag 28
Heavy Equipment Operation
and Maintenance
$\begin{array}{ll}\mathrm{Ag} 30 & \text { And Maintenance.... } \\ \text { Ag } 33 \mathrm{~A} & \text { Agricultural Mechanics. }\end{array}$
Ag 33 A
Ag 42 Farm Power
Plant Science \& Forage Crops
Horsemanship Horsemanship-Equitation
Intermediate Horsemanship Equitation Ho.... ntroduction to Chemistry Motivation. Efficiency
Labor and the Economy. aws Affecting Employees Arc Welding

 r Ag 35
Ag 36
Ag 37
Ag 38
Ag 50
WE Occ 80
WE Occ 81
WE Occ 82
WE Occ 83 Agricultural Construction Small Gasoline Engines. Slectricity on the Farm Personal Efficiency Motivation.
Laws Affecting Economy..

| Ag 42 | Plant Science \& F |
| :---: | :---: |
| Ag 64 | Horsemanship-Equitation |
| Ag 66 | Intermediate Horsemanship- |
| Chem 2A | - |

4

## ANTHROPOLOGY

Twenty-one units required for the major
I. Required courses for the major

| Anthro 1 | Physical Anthropotogy ............. (3) |
| :---: | :---: |
| Anthro 2 | Cultural Anthropology ............. (3) |
| Anthro 3A | Intro. to Arch. Site Surveying ...... (3) |
| Anthro 4 | California Indians ............ |

$\begin{array}{ll}\text { Anthro } 4 & \text { California Indians... } \\ \text { Psych 1A }\end{array}$

## AUTOMOTIVE TECHNOLOGY

Twenty-eight to 31 units required for the major
I. Required courses for the major $\begin{array}{ll}\text { Auto Tech } 50 & \text { Shop Mathematics (if required) .... (3) } \\ \text { Auto Tech } 51 & \text { Engine Technology, or equivalent . (5) }\end{array}$ Auto Tech 52 Manual Transmissions and Auto Tech 53 Power Trains........... $\begin{array}{ll}\text { Auto Tech } 53 & \text { Brakes and Suspensio } \\ \text { Auto Tech } 54 & \text { Carburetors, Fuel and }\end{array}$ Exhaust Systems
Auto Tech 55 Gasoline and Diesel Engines
Auto Tech $\left.60 \begin{array}{c}\text { Electrical, Starting, Charging, Ignition } \\ \text { and Related Electrical Systems }\end{array}\right)$
II. Acceptable courses for the major

$$
\begin{aligned}
& \text { Auto Tech } 56 \text { Diagnostics. } \\
& \text { Auto Tech } 57 \text { Fluid Power }
\end{aligned}
$$

| Auto Tech 56 | Diagn |
| :---: | :---: |
| Auto Tech 57 | Fluid Power |
| Auto Tech 58 | Automotive Air-Conditioning |
| Auto Tech 59 | Small Gasoline Engines |
| Auto Tech 61 | Automatic Transmission |
| Weld 30 | Arc Welding |
| Weld 32 |  |

Arc Welding ............

## AUTOMOTIVE BODY REPAIR AND PAINTING

Twenty-four to 27 units required for the major

1. Required courses for the major

Auto Body 70 Auto Body Repairing \& Painting .. Auto Body 71 Advanced Auto Body Repairing Auto Body 72 Auto and Light Truck Major Auto Tech 50 Collision Repairing .......... Auto Tech 50 Shop Mathematics (if required) $\begin{array}{ll}\text { Weld } 30 & \text { Brakes and Suspension } \\ \text { Arc Welding }\end{array}$ Weld 30
Weld 32

$$
\begin{aligned}
& \text { Arc Welding . Welding } \\
& \text { Oxy-Acetylene Welding }
\end{aligned}
$$

H. Acepta courses for the (ive ............ (3) Acceptable courses for the major (five units from the fol-
lowing list may be accepted as major credit if the equivalowing list may be accepted as major credit if the equiva-
lent of Auto Body 70 has been completed in high school (two years of high school auto body).
Auto Tech 51 Engine Technology, or equivalent Auto Tech 54 Electrical and Fuel Systems $\begin{array}{ll}\text { Auto Tech } 58 & \text { Automotive Air-Conditioning } \\ \text { Cooperative Work Experience }\end{array}$ WE
Weld $34 \quad$ Cooperative Work Experience.
Inert Gas Shielded Arc Welding

## banking-Administrative services

Twenty-three units required for the major
I. Required courses for the major

| Bus 1A | Principles of Accounting .......... (4) |
| :---: | :---: |
| Bus 18 | Principles of Accounting .......... (4) |
| Bus 6 | Management Concepts of Supervision. |
| Bus 7 | Human Relations in Management .. (3) |
| Bus 60 | Principles of Bank Operations ..... (3) |
| Acceptable courses) | courses for the major (select any two |
| Bus 5A | Business Law . . . . . . . . . . . . . . . . (3) |
| Bus 42 | Business Correspondence ......... (3) |
| Econ 1 | Principles of Economics........... (3) |
|  |  |

## BANKING-CREDIT ADMINISTRATION

Twenty-three units required for the major

1. Required courses for the major

| Bus 1A |  |
| :---: | :---: |
| Bus 18 | Principles of Accounting ......... (4) |
| Bus 60 | Principles of Bank Oper |
| Bus 61 | Analysis of Financial Statements |
| Bus 62 | Installment Credit |
| Acceptab courses) | for the major (select any two |
| Bus 5A | Busin |
| Econ 1A | Principles of Economics |
| Sp 1 | Oral Communication... |
| Bus 7 Bus 42 | Human Relations in Management . . (3) |
| Bus 63 | Financing Business |
| Bus 64 | Agricultural Finance $\square$ (3) |

## BANKING-SECRETARIAL

Twenty-two to 28 units required for the majo

1. Required courses for the major

Bus 5A
Bus 21AB
Bus 32AB
Bus 40 or
Bus 41 or
Bus 42
Bus 60

$$
\begin{aligned}
& \text { Business Law ............ } \\
& \text { Proficiency-Exit Typing } \\
& \text { Dictataion \& Transcription } \\
& \text { Grammar and Usage.... } \\
& \text { Essentials of Business } \\
& \text { Correspondence ... }
\end{aligned}
$$

Act Principles of Bank Operations...... (3) lowing courses)

| Sp 1 | Oral Com |
| :---: | :---: |
| Bus 7 | Human Relations in Management .... (3) |
| Bus 23 | Office Machines ................. (3) |
| Bus 39 | Office Procedure |
| Bus 50 | Introduction |

Minimum skill Introduction to Data Processing ... (3) qualify for major. If skill level attained in Bus 21A excused from Bus 21B
Minimum skill ievel of 90 words per minute required to qualify for major. If attained in Bus 32A, student is excused
***BANKING-GENERAL OPERATIONS
wenty-two to 25 units required for the major
Required courses for the major

## Bus 5A Bus 10A Bus 21 AB <br> Bus 21 AB Bus 23 <br> Bus 23 Bus 40 <br> Bus 40 Bus 60

Acceptable
courses)
Sp 1
Sp 7
Bus 7
Bus 39
Bus 39
Bus 50

41 Office Procedures


## BILINGUAL-BICULTURAL STUDIES

Twenty-one to 24 units required for the major

1. Required courses for the major

| Eng 2 | Introduction to Linguistics |
| :---: | :---: |
| Eng 30A | The Mexican American in Literature |
| Hist 30 | Mexico \& the American So |
| Span 42 | Introduction to Mexican A |
|  | Studies |

Required for monolingual students only

Required for bilingual students only
$\begin{array}{ll}\text { :Span } 208 & \text { Bilingual Spanish ................. (4) (4) } \\ \text {-Span 21 } & \text { Intermediate Bilingual Spanish ... (4) }\end{array}$ $\begin{array}{ll}\text {-Span } 21 & \text { Intermediate Bilingual Spanish .... (4) } \\ \text {-Span } 22 & \text { Advanced Bilingual Spanish ...... (4) }\end{array}$
These courses may be waived on the basis of language pro ficiency examination.

## BOOKKEEPING

Twenty units required for the major
Required courses for the major
Bus 10A
Bus 10B
Bus 21AB
Bus 23
Bus 24
B 20

| Practical Bookkeeping Practical Bookkeeping Proficiency-Exit TypewOffice Machines |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |

Bus 50
Records Managemen
I. Acceptable for the major (3 units from the following
$\mathrm{Ag} 25 \quad$ Agriculture Bus. Management.....
Agriculture Business Organization
Bus 2 Introduction to Busines

$\begin{array}{ll}\text { Bus } 11 & \text { Personal Finance } \\ \text { Bus } 12 & \text { Personal Income }\end{array}$
Bus 13 Applied Business La Minimum skill level of 40 net words per minute required to
qualify for the major. If skill ievel is attained in Bus 21 A , student is excused from Bus 218

## business supervision

Twenty-one units required for the major

1. Required courses for the major

Bus 2
Bus 3

Bus 7
Bus 10
Bus 13
Bus 50

## BUSINESS-TRANSFER

Twenty units required for the major
I. Required courses for the major

| Bus 1A | Principles of Accounting ......... (4) |
| :---: | :---: |
| Bus 18 | Principles of Accounting .......... (4) |
| Bus 5A | Business Law.................... (3) |
| Econ 1 | Principles of Economics........... (3) |
| Econ 2 | Principles of Economic |

II. Acceptable for the major (3 units from the following ourses)

| Bus 2 | Introduction to Business |
| :---: | :---: |
| Bus 5B | Business Law |
| 9 | Math. for Business Analysis ....... (3) |
| 23 | Office Machines .................. (3) |
| s 42 | Business Correspondence |
| Bus 50 | Introduction to Data Processing |

CARPENTRY
Twenty-four units required for the majo
I. Required courses for the major

| Carp 1 | The Apprenticeship \& Math |
| :---: | :---: |
| Carp 2 | Pre-job and Plot Planning ......... (3) |
| Carp 3 | Rough Framing . . . . . . . . . . . . . . . (3) |
| Carp 4 | Roof Framing . . . . . . . . . . . . . . . . (3) |
| Carp 5 | Interior and Exterior Finish ........ (3) |
| Carp 6 | Stair Building . . . . . . . . . . . . . . . . . (3) |
| Carp 7 | Concrete and Forms .............. (3) |
| Carp 8 | Heavy Timber Construction and Welding $\qquad$ |

Eighteen units required for the major
I. Required courses for the major

| Bus 21AB | writing ..... |
| :---: | :---: |
| Bus 22 | Machine Transcription |
| Bus 23 | Office Machines ................. (3) |
| Bus 24 | Records Manageme |
| Bus 41 or | Essentials of Business Correspondence .. |
| Bus 42 | Business Correspondence......... (3) |
| Acceptable courses for the major |  |
| Bus 10A | Practical Bookkeeping |
| Bus 13 | Applied Business Law . |
| Bus 39 | Office Procedures |
| Bus 43 | Business Correspondence in Spanish |
| Bus 50 | Introduction to Data Processin |

To qualify for the clerical major, the student must have a Bus 21A, student is excused from Bus 21B.

## COSMETOLOGY

Forty-five units required for the major
I. Required courses for the major

| Cos 50A | Introduction to Cosmetology ..... (10) |
| :---: | :---: |
| Cos 50B | Introduction to Cosmetology ...... (10) |
| Cos 52A | Intermediate Cosmetology ........ (10) |
| Cos 52B | Intermediate Cosmetology ....... (10) |
| $\cos 54 \mathrm{~A}$ | Advanced Cosmetology |

## data processing

Twenty units required for the major

| Bus 1A | Principles of Accounting |
| :---: | :---: |
| Bus 18 | Principles of Accounting. |
| Bus 50 <br> Bus 5 | Introduction to Data Processing ..... (3) |
| Bus 53 | Computer Programming 1 ......... (3) |
| Bus 54 | Data Processing Systems |

## EARLY CHILDHOOD EDUCATION

Twenty-seven units required for the major

1. Required courses for the major

| E $20 /$ | velopmental Psychology of |
| :---: | :---: |
| Psych 20 | Children.................. |
| Psych 21 | Early Childhood Sociali |
| ECE 22/ | Principles of Child Development |
| Psych 22 | and Observation... |
| ECE 23AB/ <br> Psych 23AB | Early Childhood Develop |
| ECE 24/ | Creative Learn |
| Psych 24 <br> ECE 25AB/ | for Pre-school |
| sych 25AB | Field Experie |
| E 28/ | Administration and |
| Psych 28 | Early Childhood |
| Psych 1A | General Psychology |
| Additional c | ses from following list |
| ECE 29/ | Child Development Asso |
| Psych 29 | Intro. \& Initial Assessm |
| Psych 18 | Advanced General Psycho |
| Psych 2 Psych 3/TA 3 | Intro. to Physiological Ps |
| Psych 3/TA 3 | Psychology of Personal and |
| Psych 9/HR | Intervial Adjustment .............. (3) |
| Psych17/ | d Counseling ...... (3) |
| Sociol 17 | ial |
| Psych 26/ | PsyChology ................ (3) |
| ECE 26 | Psychology of |
| Psych $27 / 1$ | Understanding Exceptionai |
| ECE 27/PL 1 | Students ......eptiona |
| Psych 30 | Psychology of Adolescence ...... (3) |
| Sociol 1 | Principles of So |
| Sociol 2 | Contemporary Social Problems .... (3) |
| Sociol 33 | Marriage and the Family |
|  | ENGINEERING |

Ighteen units required for the major
Required courses for the major

| Engr 2A |  |
| :---: | :---: |
| Engr 3 | Descriptive Geowetry. |
| Engr 10 | Engineering Problems ............ (3) |
| Engr 16 | Dynamics |
| Engr 18A | Plane Surveying |
| Engr 18B | Plane Surveying $\ldots \ldots \ldots \ldots \ldots \ldots \ldots$ (3) |
| Recommended as electives (do not fulfill major requirements) |  |
| Engr 5 |  |
| Engr 6 | Properties of Materials |
| Engr 12 | Architectural Drafting |
| Engr 13 | Architectural Drafting II |
| Engr 30 | Architectural Drawing III ........... (3) |

II. Recommend Surveying for Engineering Tech..... (3)
ments

| Astron 21 | Elementary A |
| :---: | :---: |
| Engr 11 | Fundamentals of Electric... |
| Engr 12 | Architectural Draftingricity |
| Engr 18A | Plane Surveying |
| Engr 18B | Plane Surveying |
| Engr 55 | Strengths of Materiais |
| Math 2 | Advanced Algebra and |
| Math C | Trigonometry. |
| Math 47 | Programming in For |
| Weld 30 | Arc Welding |
| Weld 32 | Oxy-Acetyl |

Student may substitute the transfer Welding ..............(3) terminal-type course. If the student meets stated prerequi-
sites.

## ENGLISH

Eighteen units required for the majo
. Required courses for the major ( 12 units)

| Eng 1A | Reading and Composition $\ldots \ldots \ldots$ (3) |
| :--- | :--- |
| Eng 1B | Introduction to Literature....... (3) |
| Eng 17AB | Survey of English Literature ..... (3-3) |

Survey of English Literatur
Eng 16AB World Literature ................... (3-3)
II. Acceptable courses for the major ( 6 units from the . owing courses)
Eng 2
Intro. to English Linguistics


Eng 3/Hum 3/ Introduction to Film History (3)
Eng 4A/ and Criticism.................... (2)
Hum 4A/ Film Criticism: Westerns,

## $\begin{array}{ll}\text { Phys 4A } & \text { Principles of Physics } \\ \text { Phys 4B } \\ \text { Principles of Phsics }\end{array}$ <br> Phys 4C Principles of Physics <br> Math 3A Analytic Gof Physics Analytic Geometry \& Calculus. Calculus \& Differy \& Calculus. Progral Equation ENGINEERING TECHNOLOGY <br> (4) (4) (4) (5) (5) (4) (3)

Eighteen units required for the major
Required for the majo

| Engr 3 | Descriptiv |
| :---: | :---: |
| Engr 10 | Engineering Problem |
| Engr 23 | Hand Calculators \& Comp |
| Engr 65 | Statics |
| Engr 72B | Surveying for Engin |

Hum 4A/ Film Criticism: Westerns, Comedies,
MPP 4A
Musicals .................... (2)

Eng 4B/
Hum 4B/ Film Criticism: Horror, Fantasy and
4B
Film Criticism: Gangsters, Politics
Film Criticism: Gangsters, Politics
and Social Protest .............
Film Criticism: Documentaries, Experimental Films ..............(2) (2)
Advanced Composition ........... (3)
Creative Creative Writing ........................ Studies in Literature $\ldots .$. ..........-3
The Mexican

Eng 30B

| Eng 4C/ Science Fiction |  |
| :---: | :---: |
|  |  |
| Hum 4C/ | Film Criticism: Gangsters, Politics |
| Eng 4D/ and Social Protest .............. (2) |  |
| MPP 4D Film Criticism: Documen |  |
|  |  |
| Eng 8 | Advanced Composition ............ (2) |
| Eng 9 Creative Writingosition ........... (3) |  |
| $\begin{array}{ll}\text { Eng 20AF } & \text { American Literature } \\ \text { Studies in Literature }\end{array}$ |  |
|  |  |
| Eng 30A The Mexican America |  |
|  |  |
| Eng 30B | The Mexican Americ |
|  | Literature. |

1. Required tor the mai

## ire-



## 

 sites.$\qquad$

[^0](3)

## fire science

Twenty-one to 24 units required for the major
I. Required courses for the major

Fire Sci 81 Introduction to Fire Science Fire Sci
Fire Sci 82 Introduction to Fire Science.......
Fire Fighting Tactics \& Strategy .. Fire Sci 83
Fire Sci 84 Fire Sci 84
Fire Sci 85

Fire Sci 86
Fire Sci
Fire Sci 87
"Math 51 Fire Hydraulics
Fire Apparatus \& Equipment.
Fire Company Organization and
Procedure ..................... Rescue Practic Fundamentals of Fire Prevention.... (3) Math 51 , or equivalent, required before registration in Fire Science 83.

## foreign language

Twenty units required for the major
. Required courses for the major (a minimum of 20 units from any of the following sequences with a minimum concentration of 16 units in one language). Additiona
units to complete the major can be selected from sea ond language area and/or the acceptable course listed below.

| French |  |
| :---: | :---: |
| Fr 1 | Elementary French* |
| Fr 2 | Elementary French** |
| Fr 3 | Intermediate French |
| Fr 4 | Intermediate French |
| Fr 10 | Intermediate Conversational French |
| Fr 11 | Intermediate Conversational French $\qquad$ |
| Spanish |  |
| Span 1 | Elementary Spanish*** |
| Span 2 | Elementary Spanish*** |
| Span 3 | Intermediate Spanish |
| Span 4 | Intermediate Spanish |
| Span 10 | Intermediate Conversational |
| Span 11 | Advanced Conversational |

## Spanish (Bilingual)

Span 20A Bilingual Spanish
Span 20B Bilingual Spanish
Span 21
Span 22

## Intermediate Bilingual Spanish

 Advanced Bilingual SpBilingual Oral
Acceptable courses for the major (will fufill ..... (3) quirements if 16 units minimum in will fulfill major re been completed in one of the areas listed below)
Fr 20A French Drama: Reading and Fr 20B
Fr 40
Fr 41
Introduction to French Civilization
and Culture Beyond France
Ger 1
Ger 2
Ger 10
Ger 10
Ger 11 French Drama: Reading and Performance................ and Culture Elementary German
Elementary German
Conversational German Conversational German and Culture .............${ }^{(2)}$ Advanced Conversational Spanish (2)
$\qquad$ (Conducted in Spanish) ........
Introduction to Spanish American Literature (Cond. in Spanish). The Mexican American in Literature........... Literature.. Civilization of Spain and Portugal. . (3) Civilization of Spanish America Introduction to Mexican American Studies........................... (3) History and Culture of the
Philippines

Some courses may be waived through testing or advanced
Students with one year high school foreign language skills in listening, speaking, reading and writing, meeting course 1
objectives, may enter course 2 (Fr 2, Span 2, Ger 2); two years, course 3 (Fr 3, Span 3, Ger 3); three years, course 3 or 4; four years, course 5. Intermediate level conversational courses should be taken concurrently: Fr 10 and Fr 3; Fr 4 should first contact the language instructors and counselors in order to determine whether they have met the performance guidelines as defined in the description of competence by levels. This description is available in the Counsel Center and the Las Departmen.
.. Completion of Fr 1 A and 18 sequence is equivalent to Fr 1 .
$\because$ Completion of Fr 2 A and 2 B sequence is equivalent to Fr 2 .
$\cdots$ Completion of Span 1 A and 1 B sequence is equivatent to Span
.... Completion of Span $1 A$ and 18 sequence is equivaent to Span 1.

GENERAL BUSINESS
Twenty units required for the major
I. Required courses for the major

| Bus 2 | Introduction to Business |
| :---: | :---: |
| Bus 3 | Business Management |
| Bus 4 | Principles of Marketing |
| Bus 10A | Practical Bookkeeping |
| Bus 50 | Introduction to Data Pr |(3)

(3)
(3)
(3)
(3)
II. Acceptable courses for the major

Bus 13 Applied Business Law
Bus 14
Bractical Salesmanship...............(3)
(3)
$\begin{array}{ll}\text { Bus 21AB } & \text { Proficiency-Exit Typewriting } \ldots \ldots \text { (2-2) } \\ \text { Bus 23 } & \text { Office Machines } \ldots \ldots \ldots \ldots \ldots \text { (3) } \\ \text { Bus }\end{array}$
Bus 24 Records Management
Bus 41 Essentials of Business
Business Correspondence in
Bus 79/Jrn 8 Public Relations Techniques

## GENERAL MAJOR

Completion of a minimum of eighteen units of lower division courses that are required or recommended subjects as
specified for upper division standing in specified for upper division standing in a designated major
by a college to which the suber
this mans to transfer.
This major provides for students whose lower division
preparation for a specific college requires than one division. Soma coilege requires courses in more random from the University of California mublication "P at requisites and Recommended Sabjects" and from the "Prefornia State University, San Diego catalog) are as follows: Agriculture ............. Agriculture, Mathematics, Social Science
 Biological Science .......
Business ............. Biological Science, Chemistry
.... Business, Social Science, Mathematics,
Mparative Literature ........... English. History, Philosoophy,
Criminology . . . . . . . . English, Foreign Lang Foreign Languag Economics .............. Social Science, Mathe, Social Science, English ...........................anglish. Social Sce, Mathematics. Busines Engineering ........ Engineering, Matheciatics, Physical Science
Foreign Language ....... Foreign History................ Historeign Language, Mathematics, Foreign, Philosophy Home Economics .................... Biological Scrience, Physics
$\qquad$
Physical Education ...... Physical Educatiomatics, Social Sciegical Science,

$$
\begin{aligned}
& \text { Pre-Dentistry ............. Biological Mathematies.s. Social Science, Science } \\
& \text { Shysical Science. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Pre-Physiotherapy. }
\end{aligned}
$$

Pre-Physiotherapy ......... Biological Sciengee. Physical Science.
Psychology .....................Biological Sciencs, Social Science,

$$
\begin{aligned}
& \text { Biological Science, Mathematics, } \\
& \text { Rhysical Science, Philosphy, Anthropology, Sociologion }
\end{aligned}
$$

Recreation ......................psical Education, Biological Science.
Students in the General Main will Philosophy, Mathematics

$$
\begin{aligned}
& \text { Students in the General Major will work out in conference } \\
& \text { with a counselor a course of studv that will }
\end{aligned}
$$

$$
\begin{aligned}
& \text { With a counselor a course of study that will meet require- } \\
& \text { ments for their specific majors at the sel }
\end{aligned}
$$

$$
\begin{aligned}
& \text { expect to attend. }
\end{aligned}
$$

## general science

Successful completion of all courses offered in one sub Math, Physics, Physiology, and Zoology) may be combing with courses from at least two other subjecet fields (within the hours for the General Science Majience) to accumulate 18
The most
The most reliable guide for appropriate course combina-
ons in this major will be the cata ge to which the student will transfer.
Natural Science

| Anat 8 | H |
| :---: | :---: |
| Anat 10 |  |
| Bio 3 | Principles of Biological Science |
| Bio 21 | General Microbiology ......... |
| Bot 1A |  |

nv Sci 5/Ag General Botany

| Physio 1 | Human Physiology |
| :---: | :---: |
| Zool 1A | General Zo |
| Zool 18 | General Zoology |
| Zool 10 | Life of the Past: An Introductiont: An |
| Physical Science |  |
| Anthro 1 | Physical Ant |
| Astron 21 | Elementary Astronogy ............ (3) |
| Astron 22 | Intermediate Astronomy ............ (3) |
| Chem 1A | General Inorganic Chemistry ...... (3) |
| Chem 18 | General Inorganic Chemistry ...... (5) |
| Chem 5 | Quantitative Chemistry |
| Chem 12 | Organic Chemistry............... (4) |
| Geog 1 | Physical Geography ............ (5) |
| Geol 1A | Physical Geology ................ (3) |
| Math 2 | Advanced Algebra \& Trigonometry (4) |
| Math 3A |  |
| Math 3B | Analytic Geometry \& Calculus.... (5) |
| Math 4A | Calculus \& Differential Equations... (5) |
| Phys Sci 25 | Introduction to Physical Sonc... (4) |
| Phys 2A | General Physics ...........nce... (4) |
| Phys 2B | General Physics |
| or Phys 4A | Principles of Physics |
| Phys 4B | Principles of Physics |
| Phys 4C | Principles of Physics ............ (4) |

GOVERNMENTAL MANAGEMENT - PUBLIC
AEMINISTRATION
Twenty-one to 22 units required for the majo
equired courses for the major

$$
\begin{array}{ll}
\text { Bus } 8 & \text { Personnel Management } \\
\text { Bus } 70 & \text { Fundamentals of Gover }
\end{array}
$$

$$
\begin{align*}
& \text { Personnel Management ....... }  \tag{3}\\
& \text { Fundamentals of Governmental } \\
& \text { Management }
\end{align*}
$$

Bus 71 Management $\quad$ State and Local Government.............3)
Bus 72 Management $\ldots \ldots \ldots \ldots \ldots$.................
11. Acceptable courses for the major (select three courses from the following
Bus 6 Management Concepts of
$\begin{array}{ll}\text { Bus } 7 & \text { Hupervision..................... (3) } \\ \text { Bus } 50 & \text { Hum Relations in Management }\end{array}$
$\begin{array}{ll}\text { Bus } 50 & \text { Introduction to Data Processing }\end{array}$
WE Occ 83 Laws Affecting Employees
WE OcC 83 Laws Affecting Employees ........ (4)

## GRAPHIC ARTS

Twenty-two units required for the majo

1. Required courses for the major

|  | GA 10 | Graphic Communi |
| :---: | :---: | :---: |
|  | GA 11 | Graphic Communication 1......... (2) |
| (4) | GA 12 | Composition Layout ${ }^{\text {a }}$ (1)....... (3) |
| (5) | GA 20 | Offset Printing I |
| (3) | GA 21 | Offset Printing I . . . . . .......... (3) |
| . (4) | GA 22 | Photot Printing II............... (3) |
| (4) | GA 23 | Bindery, Cutting Platemaking ..... (3) |
| (4) | GA 30 |  |
| (3) |  | Management Fundamentals |

Areas of emphasis: Community Mental Health Worker Counseling, School, Social Services, Personnel, Employment Counseling and Supervision
Twenty-four units required for the major
I. Required courses for the major

| ych 1A | Gen |
| :---: | :---: |
| Psych 3/TA 3 | Psychology of Personal and Social Adjustment |
| Psych 9/HR 9 | Interviewing and Counseling |
| ych 11 |  |
| HR 11A | Practicum |

II. With the approval of his/her counselor and the Division Chairperson, the student will select a minimum of nine units (depending on areas of emphasis) from the follow certain areas of emphasis to take more than nine units from the list below.

| Anthro 2 | Cultural Anthropology |
| :---: | :---: |
| Bus 6 | Management Concepts of Supervision. |
| Bus 7 | Human Relations in Management . . (3) |
| Bus 50 | Introduction to Data Processing |
| Bus 79 | Public Relations Techniques ...... (3) |
| HR 8/Psyc | Personal and Career Development . (3) |
| HR 10/Psych 10Small Group Leadership .......... (3) |  |
| Jrn 3 | Mass Communications |
| Psych 1B | Advanced General Psychology |
| Psych 2 | Introduction to Physiological Psychology. |
| Psych 5 | Psychology of Effective Behavior .. (3) |
| Psych 118/ |  |
|  |  |
| Psych 12/ |  |
| Math 12 | Elementary Statistic |
| Psych 14 | Abnormal Psychology |
| Psych 15/ | Social and Psychologicai |
| Sociol 15 | Dynamics of Drug |
| Psych 17/ |  |
| Sociol 17 | Social Psychology |
| Psych 20/ | Developmental Psyc |
| ECE 20 | Child |
| Psych 26/ |  |
| ECE 26 | Psychology of Parenthood ........ (3) |
| Psych 30 | Psychology of Adolescence |
| Psych 35 | Developmental Psychology: <br> Conception to Death |
| Psych 40 | Psychology of Crisis Counseli |
| Psych 46/ | The Mentally lil, Alcoholic, Drug |
| LE 46 | Addict and the Law |
| Sociol 2 | Contemporary Social Problems |
| Sociol 10 | Sociology of Minority Groups |
| Sociol 33 | Marriage and the Family |
| Sociol 41/ | Mass Sociology and Collective |
| LE 41 | Behavior |

Spanish take a series of courses in Conversational Spanish.

## INDIVIDUAL INTERDISCIPLINARY MAJO

This major for an Associate Degree provides occupationaloriented students with an area of concentration within two -
The requirements for the major will be met by satisfactory completion of nine (or more) units in each division.
The courses required will be approved by division chairEducation. The courses approved will be from courses already established. The student will initiate the request for the major through the Counseling Office.

## INDUSTRIAL POWER TECHNOLOG

Twenty-eight units required for the major
I. Required courses for the major

| Ag 33A | Farm Power |
| :---: | :---: |
| Ag 33B | Farm Power ..................... (5) |
| Ag 37 | Small Gasoline Engines ........... (3) |
| Ag 35 | Fluid Power ..................... (4) |
| Auto Tech 52 | Transmission Systems ............ (3) |
| Auto Tech 58 | Automotive Air Conditioning ...... (3) |
| HM 36 | Power Transmission Systems...... (5) |
| Three (3) units to be selected from the following courses |  |
| 50 | Shop Mathematics ................ (3) |
| Eng 7 | Technical \& Report Writing ........ (3) |
| Weld 30 | Arc Welding ..................... (3) |
| Weld 32 | Oxy-Acetylene Welding ........... (3) |
| WE Gen 70 | Personal Efficiency ............... (3) |
| WE Gen 71 | Motivation . . . . . . . . . . . . . . . . . . . (3) |
| WE Gen 72 | Labor and the Economy . . . . . . . . . . (3) |
| WE Gen 73 | Laws Affecting Employee |

## Journalism

Twenty-one units required for the major
I. Required courses for the major


MPP 10/ Introduction to Motion Picture
Eng 10
Production ...........................
II. Acceptable courses for the major (minimum of 3 units from the following courses)

| Econ 1 | Pri |
| :---: | :---: |
| Econ 2 | Principles of Economics |
| Eng 18 | Introduction to Literature |
| Jrn 3 | Mass Communications |
| Jrn 8/Bus 79 | Public Relations Techniques |
| Sociol 1 | Principles of Sociology |
| Sociol 2 | Contemporary Social Pr |
| MPP $10 /$ | Introduction to Motion Pic |
| Eng 10 | Production |
| Jrn 5/Ph 5 | Introduction to Pr |
| ly Sci 1 | Introduction to Political Scie |
|  |  |

*If not used to satisfy the American Institutions requirement for graduation.

## LAW ENFORCEMENT

wenty-one units required for the major
I. Required courses for the major

| LE 21 | Introduction to the Administration of Justice |
| :---: | :---: |
| LE 33 | Concepts of Criminal Law ........ |
| LE 35 | Legal Aspects of Evidence |
| LE 36 | Principles and Procedures of |
|  |  |

## 1. Required courses for the major

Twenty-four units operation AND MAINTENANC

| HM 35 | Heavy Equipment Operation and Maintenance. |
| :---: | :---: |
| Ag 35 | Fluid Power |
| Ag 37 | Small Gasoline Engines .......... (4) |
| Weld 30 | Arc Welding .................. (3) |
| Weld 32 | Oxy-Acetylene Welding ........... (3) |
| Six (6) units to be selected from the following.... (3) |  |
| Ag 50 | Shop Mathematics ... |
| Eng 7 | Technical \& Report Writing |
| WE Gen 70 | Personal Efficiency ............... (3) |
| WE Gen 71 | Motivation ........................ (3) |
| WE Gen 72 | Labor and the Economy.......... (3) |
| WE Gen 73 | Laws Affecting Employees .......... (3) |

## MARKETING-SALES TECHNOLOGY

## Eighteen units required for the major

$$
\begin{array}{ll}
\text { Bus 2 } & \text { Introduction to Business } \\
\text { Bus 4 } & \text { Principles of Marketing.. } \\
\text { Bus 13 } & \text { Applied Business Laww... } \\
\text { Bus 14 } & \text { Practical Salesmanship.. }
\end{array}
$$

Thirty-six units required for the maio
. Required courses for the major

| Bus 5A | Business Law. |
| :---: | :---: |
| LA 1 | Intro. to Legal Assistants ............. (3) |
| LA 2 | Library Science \& Legal Writing .... (3) |
| LA 3 | Civil Procedures I................. (3) |
| LAG | Crimina |
| LA 7 | Criminal Law ..................... (3) |
| LA 8 | Corporations and Taxation |
| LA9 | Civil Discovery and Evidence ...... (3) |
| LA 10 | Family Law .......... |
| LA 11 | Real Estate -Creditor/Debtor |
|  | Assistants |
| LA 12 | Wills/Trusts/ |
|  | liberal studies <br> (See Teacher Preparation) |
|  | LIFE SCIENCE |

R Rajur
from the following for the major (minimum of 18 units

| Anat 8 | Human Anatomy. |
| :--- | :--- |
| Anat 10 | Human Anatomy |
| Bio 3 | Principles of Biolo |

$\begin{array}{ll}\text { Bio } 3 & \begin{array}{l}\text { Human Anatomy Anatomy and Physiology } \\ \text { Principles of Biological }\end{array} \\ \text { Biol..................... }\end{array}$
Bot $1 \mathrm{~A} \quad$ General Microbiology
ot 1B General Botany
$\begin{array}{ll}\text { Physio } 1 & \text { Human Potany.... } \\ \text { Zool 1A } 1 \text { Hyiology. } \\ \text { General Zoology }\end{array}$
Zool 1B General Zoology
General Zoology...........
$\begin{aligned} & \text { Env Sci } 5 / \mathrm{Ag} 5 \\ & \text { Man and His Environmen }\end{aligned}$
$\begin{array}{ll}\text { Mnthro } 1\end{array}$

1. Acceptable courses for the major ( 6 units from the fol-
lowing courses) owing courses)


## MATHEMATICS

Eighteen units required for the majo
I. Required courses for the major

Math 3A Analytic Geometry \& Calculus ..... (5) Math 3B Analytic Geometry \& Calculus ..... (5)
II. Acceptable courses for the major
$\begin{array}{ll}\text { Math C } & \begin{array}{l}\text { Plane Trigonometry } . . . . . . . . . . . . . . . . . . ~ \\ \text { Advanced Algebra and }\end{array} \\ \text { Math } 2\end{array}$
Math $4 \quad$ Trigonometry................. Math 6 Math 12 Eleme Algobra Programming in Fortran............. (3)
Either Math C or Math 2, but not both, are acceptable for th
ments)
neral Inorganic Chemistry ........(5)

Engr 16 Dynamics
Phys 4A
Phys 4B
Phys 4C

$$
\begin{aligned}
& \text { Dynamics ............... } \\
& \text { Principles of Physics. } \\
& \text { Principles of Physics. } \\
& \text { Principles of Physics. }
\end{aligned}
$$

NOTE: It is highly rec Differential Equations; and Math 6, Linear Algebra be completed at Imperial Valley College.

## MEDICAL OFFICE ASSISTING

Thirty units required for the major

1. Required courses for the major

| Bus 21AB | Proficiency-Exit Typewriting |
| :---: | :---: |
| Bus 24 | Records Management |
| Bus 49AB | Medical Terminology. |
| Bus 22 | Machine Transcription |
| Bus 48 | Medical Insurance |
| MA 1/Bus 47 | Medical Office Assi |
|  |  |

MA 1/Bus 47
Eng 1A Medical Office Assisting..
Reading and Composition(2-2)
II. Acceptable courses for the major ( 3 units from the fol lowing courses)
$\begin{aligned} \text { Psych } 3 & \begin{array}{c}\text { Psychology of Personal and } \\ \text { Social Adjustment }\end{array} . . . . . . . . .\end{aligned}$ $\begin{array}{ll}\text { Psych 5 } & \begin{array}{l}\text { Social Adjustment } \\ \text { Psychology of Effective Behavior ........... (3) } \\ \text { Ssych } 17\end{array} \\ \text { Social Psychology }\end{array}$ $\begin{array}{ll}\text { Psych } 17 & \text { Social Psychology .................. (3) } \\ \text { Psych } 40 & \text { Psychology of Crisis Counseling .. (3) }\end{array}$
III. Recommended as electives (do not fulfill major requirements)
Span 19/ Business Correspondence in Bus 41 Spanish ............

Correspondence.
MOTION PICTURE PRODUCTION
Twenty-two units required for the major

1. Required courses for the major

Ph 5/Jrn 5 Introduction to Photography ....... (3)
MPP 10/Eng 10introduction to Motion Picture
MPP 11 Intermediate Motion Picture
MPP 12 Production ............
Eng 3/Hum 3/ Introduction to Film History
and Criticism ............................
MPP 3
ind Criticism
ana Cricism .

Two units to be selected from one of the following courses.
Eng 4A/
Hum 4A/ Film Criticism: Westerns, Comedies,
MPP 4A
Musicals .......................
MPP 4A
Eng 4B/
Hum 4B/ Film Criticism: Horror, Fantasy and
MPP 4B Science Fiction .................. (2)

Film Criticism: Gangsters, Politics
and Social Protest ..............
Film Criticism: Documentaries, Experimental Films
II. Acceptable courses for the major (minimum of six units required from the following courses), with at least one course in each of two areas
Art 22A or 228 Design
Drm Arts
Hum 25

The Humanities
Mus 30
Mass Communications
Mus 30
o Music Literature
Multi-Media ..

## Music

Thirty-three units required for the major Required for the mat
following courses)
a. Academic courses (minimum of 20 units from the following courses)

| Mus 8A | Beginning Musicianship . . . . . . . . . (2) |
| :---: | :---: |
| Mus 8B | Beginning Musicianship ........... (2) |
| Mus 8C | Intermediate Musicianship......... (2) |
| Mus 8D | Intermediate Musicianship ......... (2) |
| Mus 9A | Beginning Harmony .............. (3) |
| Mus 9B | Beginning Harmony .............. (3) |
| Mus 9C | Intermediate Harmony ............. (3) |
|  |  |

Note: Music 8A and 9A must be taken concurrently and the sequence followed through 8 D and 9 D .
b. Applied Music (minimum of 5 units from the following courses). (Requirement may be waived through proficiency examination.)
Mus 10A Beginning Group Piano
Mus 32AD Applied Music ....................1-1-1)
Performance Ensembe (minimum of 8 units from the following courses)
Mus 17AF Chamber Singers.
Mus 18AF Chamber Orchestren Mus 18AF Chamber Orche Mus 28AF College-Community

Chorus.
$(2-2-2-2-2-2)$
$(2-2-2-2-2-2)$ $(2-2-2-2-2-2)$
$(2-2-2-2-2-2)$ . (2-2-2-2-2-2)

Note: All music majors are required to perform in at ast one the above college music organizations every semester enrolled.
II. Recommended as electives (do not fulfill major require ments)




| MAJORS |  |  |  |
| :---: | :---: | :---: | :---: |
| Acceptable courses for the major (2 units to be selected from the following courses) |  |  |  |
|  |  |  |  |
| PE 2A Begining Gymnastics |  | II. Ac | A, B and C |
| PE 3A | Beginning Tennis, Coed, Coed.... (1) | PE 62AB | Courses for the major |
| PE 3B <br> PE 4ABCD | Intermediate Tennis, Coed .......... (1) |  | Physical Education for Special |
| PE 5A | D Badminton, Coed ................. (1-1) | PL. 12 | Advanced Commun............ (3-3) |
| PE 6 | Beginning Swimming, Coed ....... (1) | PL. 12 | Avanced Communication with |
| PE 10A | Life Saving ..................... (2) | PL 13AD | Communication with the Deaf in the (3) |
| PE 17ABCD | Team Sports.................... (1) |  | College Classroom........ (1-1-1-1) |
|  | CD Physical Fitness, Men .............. (1) | PL 31 | Intro. to Speech \& Language . . . . ${ }^{\text {a }}$ (3) |
| PE 18A | Beginning Golf, Coed .......... $1-1-1-1$ ) |  | Interview and Testing Techniques for |
| PE 25ABCD | CD Intermediate Golf, Coed.............. (1) |  | Behavior Modification Problems.... (3) |
| PE 26A | Foik Dance, Coed.......... (1-1-1-1) | PL 32 | Speech \& Hearing Pathochniques for |
| PE 26B | Intermediate Modern Dance, Coed... (1) | PL 40 | Introduction to Physical Therapy ... (3) |
| PE 27ABCD | D Disco Dance, Coed ............... (1) | PL 41 <br> Psych 3 | Intro. to Occupational Therapy .... (3) |
|  |  |  | Psychology of Personal and Social |
|  |  | Psych 9 Rec 73 Sociol 1 Sp 1 | Interviewing and counso........ (3) |
|  |  |  |  |
|  |  |  | Principlen for Special Groups ..... (4) |
|  |  |  | Oral Communication . . . . . . . . . (3) |
|  |  |  |  |
| REHABILITATION TECHNICIAN FOR THEPHYSICALLY LIMITED |  | SECRETARIAL* |  |
|  |  | Twenty or 21 units required for the major |  |
| Twenty-three units required for the major |  |  |  |
| Required courses for the majo |  | 1. Required for the major |  |
| PL 1/Psych 1/ ECE 27 PL 2AB |  | Bus 21AB | Proficiency-Exit Typew |
|  | 1/ Understanding Exceptional | Bus 22 Bus 23 | Machine Transcription .............(1) |
|  | Practicum Exprie............... (3) | Bus 24 | Records Manes ................. (3) |
|  | Practicum Experience to Work with | Bus 32AB | Records Management .............. (3) |
| Psych 1A or Psych 5 | General Phsically Limited Person. (2-2) | Bus 39 | Office Proredunscription Lab ... (3-3) |
|  | General Psychology ............ (3) | Bus 40 | Grammar and Usage |
| Eng 51 or | The Communicationtive Behavior .. (3) | Bus 41 or | Essentials of Business ............ (3) |
| Eng 1A | Reading \& Composition ${ }^{\text {a }}$. $\ldots$. . (3) |  | Correspon Busi |
| Select 12 units from any of thposition...... |  | Bus 42 | Business Correspondence |
|  |  | -To qualify for a secretarial major, the student must have a minimum skill level of 60 words a minute in typing and 100 words a minute in |  |
|  |  |  |  |  |
| $\begin{aligned} & \text { PL } 20 \\ & \text { PL } 21 \end{aligned}$ | Literary Braille <br> and dictationte in typing and 100 <br> Psychology of Physical |  |  |
| * 6 units selected fromabilities ................... (3) |  |  |  |  |
|  |  |  |  |  | SOCiAL SCIENCE |  |
| from acceptable courses below or from |  | I. Required courses for the major |  |
| Option B |  | The requirements for a major in Social Science may be satisfied by taking 18 units from |  |
| PL 10 B | Beginning Communication with the Deaf. |  |  |
| PL 11 |  | Anthropology |  |
|  | Intermediate Communication with | Anthropology |  |
| *4 units selected from acceptable |  | Anthro 2 <br> Anthro 3A | Physical Anthropology <br> Cultural Anthropology |
| Options A and C | drom acceptable courses below or from C |  |  |
| Option C |  | Anthro 3B | Site Surveying................ (3) |
| $\begin{array}{ll} \text { PL } 33 & \text { Ir } \\ \text { PL } 34 & \text { A } \end{array}$ | Introduction to Audiology <br> Audiometry and Hearing | Anthro 4 | Excavations ................... (3) |
|  |  |  |  |
|  |  | Anthro 5 | Archaeology: Theory, Prehistory ${ }^{\text {a }}$ (3) |
|  |  |  | and Laboratory |
| * 6 units selected from acceptable courses below or from Options A and B |  | Aconomics Indians of North Am |  |
| Option D |  | Econ 1 Econ 2 |  |
| HA 15A or HA 15B or HA 15C | Hospital Nursing Assistant <br> Community Health Aide <br> Developmental Disability/Mental |  | Principles of Economics.......... (3) Principles of Economics |
|  |  |  | Principles of Economics............ (3) |
|  |  | Geography |  |
|  | Retardation Aide............... (9) | Geog 1 <br> Geog 2 | Physical Geography .............. (3) |
|  |  |  | graphy ............... (3) |


| History |  |
| :---: | :---: |
| Hist 4A | History of Western Civilization..... (3) |
| Hist 4B | History of Western Civilization..... (3) |
| Hist 8A | History of the Americas ........... (3) |
| Hist 8B | History of the Americas ........... (3) |
| Hist 10 | History of Modern Russia ......... (3) |
| Hist 17A | United States History ............. (3) |
| Hist 178 | United States History ............. (3) |
| Hist 30 | Mexico \& the American Southwest. (3) |
| Hist 40 | Civilization of Spain \& Portugal .... (3) |
| Hist 41 | Civilization of Spanish America and Brazil |
| Political Science |  |
| Poly Sci 1 | Introduction to Political Science ... (3) |
| Poly Sci 2 | American Government \& Politics .. (3) |
| Poly Sci 3 | Comparative Politics .............. (3) |
| Poly Sci 14 | Introduction to International |
| Social Science |  |
| Soc Sci 52 | Intro. to American Government .... (3) |
| Soc Sci 69 | Personal Finance ................. (3) |
| Sociology |  |
| Sociol 1 | Principles of Sociology............ (3) |
| Sociol 2 | Contemporary Social Problems .... (3) |
| Sociol 10 | Sociology of Minority Groups ..... (3) |
| Sociol 33 | Marriage and the Family .......... (3) |
| SOIL AND WATER TECHNOLOGY |  |

Twenty-two units required for the major
I. Required courses for the major

| Ag 30 | Agricultural Mechanics............ (3) |
| :---: | :---: |
| Ag 32 | Irrigation and Drainage ............ (3) |
| Ag 35 | Fluid Power ..................... (4) |
| Ag 37 | Small Gasoline Engines ........... (3) |
| Ag 40 | Soils ............................. (3) |
| Ag 41 | Fertilizers |

II. Acceptable courses for the major ( 3 units from the folwing courses

| Ag 28 | Heavy Equipment Operation and Maintenance $\qquad$ |  |
| :---: | :---: | :---: |
| Ag 33A | Farm Power | 5) |
| Weld 30 | Arc Welding | (3) |
| Weld 32 | Oxy-Acetylene Welding | (3) |
| Chem 2A | Introduction to Chemistry |  |
| Engr 72 | Surveying for Engineering Technology |  |
| WE Occ 80 | Personal Efficiency |  |
| WE Occ 81 | Motivation |  |
| WE Occ 82 | Labor and the Econo |  |

## SPEECH PATHOLOGY AND AUDIOLOGY

Twenty-four units required for the major
I. Required courses for the major

| Sp 1 or | Oral Communication |
| :---: | :---: |
| Sp 2 | Intermediate Public Speaking...... (3) |
| Sp 30 | Voice \& Articulation Development |
| PL 30 | Intro. to Speech and Language .... (3) |
| PL 31 | Interview and Testing Techniques for Speech \& Hearing Problems (3) |
| PL 32 | Behavior Modification Techniques for Speech \& Hearing Pathology . |
| PL 33 | Introduction to Audiology |
| PL 34 | Audiometry and Hearing |

PL 33 $\begin{gathered}\text { Speech \& Hearing Pathology } \\ \text { Introduction to Audiology ....... } \\ \text { Audiometry and Hearing }\end{gathered}$
Conservation.
I. Recommended as electives (do not fulfill maior ,

| Math A | Intermediate Algebra |
| :---: | :---: |
| Phys Sci 25 | Intro. to Physical Science |
| Psych 1A | General Psychology |
| Psych 2 | Physiological Psychology |
| Psych 20 | Developmental Psychology o Children |
|  | TEACHER AIDE |

Twenty-four units required for the maio

1. Required courses for the major

| TA | Introduction to Ed |
| :---: | :---: |
| TA 2 | Intro. to Instructional Associate. |
| TA 3/Psych 3 | Psychology of Personal and Social Adjustment ........ |
| TA 4 | Introduction to BilingualMulticultural Education |
| TA 5 | Bilingual-Multicultural Curriculum and Instruction $\qquad$ |
| TA 6 | Language Arts for Instructional Associate. |
| TA 7 | Creative Arts for Instructional Associate |
| TA 8 | Mathematics for Instructional Associate |

The Teacher Preparation and Licensing Law of 1970 (Ryan Act) provides for two types of teaching credentials, each permitting instruction in grades K-12. One is the MULTIPLE SUBJECT CRECENTIAL for teachers in a self-contained classroom as commonly practiced in California elementary
schools. The other is the SINGLE SUBJECT CREDENTIAL for teachers responsible for only one subject as practiced in unior and senior high schools.
To satisfy the requirements for the MULTIPLE SUBJECT (National Teachers Examination - Commons Section) o complete an approved major. This major must cover 84 sem ester units with 21 units in each of the following areas: (1) English and Communications, (2) Mathematics and Science 3) Social Science, (4) Humanities. Most universities have
eveloped LIBERAL STUDIES majors which have been developed for this credential. The National Teachers Exam ination may be taken at any time that the student feels capable of passing it. Only passing scores are to be submitted. or those passing the examination, any degree major may be courses including student teaching are required. A full cre dential requires 30 semester units after the B.A. degree. To satisfy the requirements for the SINGLE SUBJECT CREDENTIAL, the individual must pass an examination or Agriculture History Mathematics Art Home Economics Music Business Industrial Arts Physical Education English Languages Physical Science Government Life Sciences Social Science Other degree majors may be subsumed under these cateCheck the university catalog for specific listings. A person would increase the possibilities for employment by passing several examinations in addition to his major. It is no longer possible to teach a "minor" subject. Professional education
courses and student teaching are required and a full credential is earned by completion of a year past the B.A. degree

## SPECIALIST CREDENTIALS

individual has earned a valid advanced preparation after the

Early Childhood Education
$\begin{array}{ll}\text { Bilingual-Cross Cultural } & \text { Agriculture } \\ & \text { Mathematic }\end{array}$ Special Education including learning Meading capped, mentally retarded, physicallhandicapped, speech and hearing dis
orders.

## SERVICES CREDENTIAL

These also require advanced preparation after the indi
vidual has a validu .

$$
\begin{aligned}
& \text { Pupil Personnel } \\
& \text { Health }
\end{aligned}
$$

## Liberal studies major at ivc

The Liberal Studies Major offers a general type of educa-
tion that will enable the student tion that will enable the student to extend his-her back ground in the four multiple subject groups of knowledg
identified below.
The Liberal Studies Major is also recommended for students who plan to enter elementary education. It meets all specified in the Ryan Act.
To complete the lower division
to the four-year college or university, a min for transferring are needed to make formal application to the school of your 1. Enolise. SEE A COUNSELOR.

1. English: (12-15 units required)

Required Courses: Eng 1A, Eng 1B, Eng 2, Sp 1
Electives: (one of the following literature) Eng 15, Eng 16A. Eng 16B, Eng 17A, Eng 17B
2. Math and Science: (9-12 units required)

Required Courses:
a. Math 10, Bio 3, Astron 25 , or Phys Sci 25
b. Three or more units from any of the following: Anat 8. Bio 21 Chem 1A, Chem 2A, Geog 1, Phys 2A, Phys
4A Zoo 14
3. Social Sclence: ( $12-15$ units required)

Required Courses:
a Hist 17A and Hist 17B or Poly Sci 1 and Poly Sci
Nine units to include courses from the following Anthro 2, Econ 1, Econ 2, Geog 2, Hist 4A, Hist 4B
Poly Sci, Psych 1A, Sociol
umanities and Fine
(12-15 units required)
Required Courses: Ar
Art 22A, Mus 7 and three 1B, Span 40, Span 41
Electives: Six units selected from the following
a. Fr 1, Fr 2, Fr 3, Fr 10, Fr 11, Ger 1, Ger 2, Ger 10, Ger Span 10, Span 11, Span 20A, Span 20B, Span 21,

The following courses are strongly recommended NOTE. GR, Mus 10B, Mus 11A, Mus 11B, PE 61 point average is required to enter studentive grade grade point avale. Some universities require a 3 .

WATER TREATMENT TECHNOLOGY
Twenty-two units required for the major
I. Required courses for the major

| WT 1 | Water Treat |
| :---: | :---: |
| WT 2 | Water Treatment Plant Operator I. . (4) |
| WT 8 | Waste Water Treatment I |
| WT 4 | Waste Water Treatment II .......... (4) |
| WT | Computational Procedures for Treatment |
| WT 7 | Computational Procedures for ..... (3) |
|  | Treatment Plant Operator II |

Recommended courses for the major
Bus $3 \quad$ Business Mana
$\begin{array}{ll}\text { Bus } 3 \\ \text { Bus } 6 & \quad \begin{array}{l}\text { Business Management } \ldots \ldots \ldots \ldots \text { (3) } \\ \text { Management Concepts of }\end{array}\end{array}$
Supervision..........
Human Relations in Management
General
Introduction to Chemistry
Whan
$\begin{array}{ll}\text { WT } 5 & \text { Introduction to Chemistry } \\ \text { Water Borne Diseases.. }\end{array}$

## WELDING TECHNOLOG

The practice of joining metals by welding is becoming
more of a science every day. Imperial Valley nizes this and consequently has instituted a two-year recog ciate Degree progrequently has instituted a two-year Assois designed to troin technicians by giving the student ample firm background in associated subith related theory, plus a and metal-fabricating teciated subjects such as mechanics meta-fabricating techniques.
The welding facility consists of an indoor, air-conditioned welders, Mig welders, and oxy-acetylene, arc weiders, Tig
Graduates from thi
Graduates from this program will find many opportunities panies, construction crews, etc. The future is aimost unlimited for the student with interests along these lines. Twenty-four units required for the major

1. Required courses for the major

| Weld 30 | Arc Welding |
| :---: | :---: |
| Weid 32 | Oxy-Acetylene Welding ........... (3) |
| Weld 34 | Gas Shielded Arc Welding ........ (3) |
| Weld 36A | Advanced Welding . . . . . . . . . . . . . . (3) |
| Weld 36B | Advanced Welding |
| Weld 38 | Sheet |

II. Acceptable courses for the major (minimum of three

Ag 28
Heavy Equipment Operation
and Maintenance
Ag 35 and Maintenance
Ag 36
Ag 38

## CERTIFICATE PROGRAMS

## FIELD ARCHAEOLOGY Certificate Program

Forty-three units required for the certificate

| Anthro 1 | Physical Anthropology |
| :---: | :---: |
| Anthro 2 | Cultural Anthropology ......... |
| Anthro 3A | Introduction to Archaeological sie Surveying |
| Anthro 3B | Introduction to Archaeological Excavation |
| Anthro 3C | Advanced Archaeological Su |
| Anthro 3D | Advanced Archaeologia Excavation |
| Anthro 4 | California Indian |
| Anthro 5 | Archaeology: Theory, Prehistory and Laboratory |
| Bio 3 | Principles of Biologic |
| OR |  |
| Bot 1A | Genin and Composition |
| Eng 1A | Physical Geography ..... |
| Geog OR |  |
| Geol 11 | General Geology: An Introduction to Geology |
| Ph 5/Jin 5 | Introduction to Photography |
|  | General Zoology |
|  | Tota |

AUTOMOTIVE TECHNOLOGY Certificate Program
Thirty-one to 34 units required for the certificate
Required courses for the certificate Auto Tech 50 Shop Math (if required) ............ $\begin{array}{ll}\text { Auto Tech } 51 & \text { Engine Technology, or equival } \\ \text { Auto Tech } 52 & \text { Manual Transmissions and }\end{array}$ Auto Tech 52 Power Trains Auto Tech 53 Brakes and Suspension ............... 3 Auto Tech 54 Carburetors, Fuel and Exhaust Auto Tech 55 Gasoline and Diesel Engines Auto Tech 60 Electrical, Starting, Charging, Ignitions \& Related Electrical Systems
able courses for the certificat Auto Tech 56 Diagnostics.
 Auto Tech 58 Automotive Air-Condins Auto Tech 59 Small Gasolne Engines Weld 30
Weld 32 Arc Welding.. Arc Welding ..........
auto body repair and painting Certificate Program

## 7 wenty-four to 27 units ody Certificate Program. <br> Huto Tech 50 Shop Mathematics, if required ...... 3

 Auto Body 70 Auto Body Repairing \& Painting. $\begin{array}{ll}\text { Auto Body } 70 & \text { Autv Body Repars Auto Body Repair and } \\ \text { Auto Body } 71 & \text { Advanced }\end{array}$ Auto Body 72 Auto and Light Truck Major Auto Tech 53 uto Tech Weld 30Weld 32 Auto and Light Truck Ma Brakes and Suspension Arc Welding Arc Welding ..............

The following courses may be substituted for any of the above required courses except Auto Body 70 and Auto Body 71: $\begin{array}{ll}\text { Auto Tech } 54 & \text { Electrical and Fuel Systems ........ } 3 \\ \text { Auto Tech } 58 & \text { Automotive Air-Conditioning ...... } 3\end{array}$ $\begin{array}{ll}\text { Auto Tech } 58 & \text { Automotive Air-Cond Arc Welding ..... } \\ \text { Weld } 34 & \text { Inert Gas Shielded }\end{array}$
general certificate in bank services*** Clerk Typist:

| Bus 5A | Business Law |
| :---: | :---: |
| Bus 10A | Practical Bookkeeping* |
| Bus 21AB | Proficiency-Exit Typewriting* |
| Bus 23 | Office Machines |
| Bus 40 | Grammar and Usage |
| Bus 60 | Principles of Bank Operations ..... 3 |
|  | Select any two of the following electives |
| Bus 7 | Human Relations in Manageme |
| Bus 39 | Office Procedures .... |
| Bus 41 | Essentials of Business Correspondence. |
| Bus 50 | Introduction to Data Processing .... 3 |
| Sp 1 | Oral Communication ............... 3 | qualify for certificate. If skill level attained in Bus 21A student is excused from Bus 21B

-Bus 1 A will be substituted if student has completed 1 year of high school bookkeeping.
$\cdots$ Designed for bank tellers, file clerks, bookkeepers, etc.
Not intended for secretarial staff members.
secretary certificate in bank service

| Bus 5A | Business Law |
| :---: | :---: |
| Bus 21AB | Proficiency-Exit Typewriting**....2-2 |
| Bus 32AB | Dictation and Transcription Lab** .3-3 |
| Bus 40 | Grammar and Usage .............. 3 |
| Bus 41 or | Essentials of Business Correspondence |
| Bus 42 | Business Correspondence............ 3 |
| Bus 60 | Principles of Bank Operations |
|  | Select any two of the following electives |
| Bus 7 | Human Relations in Management ... |
| Bus 23 | Office Machines |
| Bus 39 | Office Procedures |
| Bus 50 | Introduction to Data Processing .... 3 |
| Sp 1 | Oral Communication .............. 3 |

Minimum skill level of 60 net words per minute required to
qualify for certificate If skill level attained in Bus 21 A student is excused from Bus 21B.
Minimum skill level of 90 words per minute required to qualify for certificate. If attained in Bus 32A, student is excused from Bus 32B.
business

CREDIT ADMINISTRATION CERTIFICAT IN BANKING

| Bus 1A | Principles of Accounting |
| :---: | :---: |
| Bus 1A Bus 1B | Principles of Accounting ..... |
| Bus 60 | Analysis of Financial Statements.... 3 |
| Bus 61 | Anstallment Credit................. 3 |
| Bus 6 | Select any two of the following electives |
|  | Business Law..... |
| Bus 7 | Human Relations in Management |
| Bus 42 | Business Correspondence..... |
| Bus 63 | Financing Business Enterprises |
| Bus 64 | Agricultural Finance .... |
| Econ 1 | Principles of Econtion... |
| Sp 1 | Communication ............... 23 |

Proficiency-Exit Typewriting
$(50 \mathrm{wpm})^{*}$
..2-2
Bus 21 Ab
Bus 22
Bus 23
Bus 24
Bus 24
Bus 39
Math 51
Eng 51 or
Eng 56B
Office Machines
Office Machines ...
Records Management Business Electives Basic Mathematics..........
The Communication Proces The Communication Process ........ $3^{3}$
Writing Fundamentals........... ${ }^{3}$
Total Units .........

Secretary Stenographer:
Bus 21AB Proficiency-Exit Typewriting .....2-2
Bus 22
Bus 23
Bus 24
Bus 32AB
Bus 39
Bus 40
Bus 42
Eng B or
Eng 1A

## Bookkeeper-Payroll Clerk

| Bus 10A | Practical Bookkeeping ............ 3 |
| :---: | :---: |
| Bus 10B | Practical Bookkeeping .............. 3 |
| Bus 21AB | Proficiency-Exit Typewriting ......2-2 (40 wpm)* |
| Bus 23 | Office Machines ................ 3 |
| Bus 24 | Records Management ............... 3 |
|  | Business Electives |
| *Math 51 | Basic Mathematics ................. 3 |
| Eng 51 or | The Communication Process ...... 3 |
| Eng 568 | Writing Fundamentals .............. ${ }_{3}$ |
|  | Total Units ......... 26 |

*Denotes the completion-level skill required.

- Required unless satisfactory proficiency therein can be demonstrated


## CARPENTRY

The Apprenticeship and Math
Pre-job and Plot Planning
Rough Framing .
Interior and Exterior Finish
Stair Building..
Concrete and Forms


Total Units | .. |
| :--- |
| 3 |
|  |

COSMETOLOGY
Certificate Program
Introduction to Cosmetology Introduction to Cosmetology Intermediate Cosmetology Intermediate Cosmetology Advanced Cosmetology

EARLY CHILDHOOD EDUCATION
Certificate Program
ECE 20/Psych 20 Developmental Psychology of Children..................... ECE 21/Psych $21 \begin{aligned} & \text { Early Childhood Socialization: } \\ & \text { Children, Family \& Community ... }\end{aligned}$ ECE 22/Psych 22 Principles of Child Development ECE 23AB/ Early Childhation ECE 23AB/
Psych 23AB arly Childhood Developmental

## ELECTRONICS

Basic Electronics:
Electronics $1 \mathrm{~A} \quad$ Basic Electronics ................. 4 $\begin{array}{ll}\text { Electronics 1B } & \text { Electronics Assembi-conductors } \\ \text { Elansistors }\end{array}$ Electronics 3
居 5 FCC 2nd Class Radiotelephone
License Preparation.............. 3
3 License Preparation............ 3

Electronics Certificate:
$\qquad$
Intermediate Electronics Certificate: Certificate ........ 18 Possession of the Basic Electronics
Electronics 4 FCC 1st Class Radiotelephone ........... 3

## EmERGENCY MEDICAL TECHNICIAN

Certificate Program
EMT 1
Emergency Medical Technic

## FIRE SCIENCE

Certificate Program
Fire Sci 81
Fire Sci 82
Fire Sci 82
Fire Sci 83
Fire Sci 84
Fire Sci 84
Fire Sci 85
Fire Sci 86
Fire Sci 87
Fire Sci 87
-Math 51 Fire Hydraulics
Fire Hydraulics ................ Fire Apparatus and Equipmen Fire Company Organization and .............. escue Practices
$\begin{array}{ll}\text { Math } 51 & \text { Fundamentals of Fire Prevention... } \\ \text { Basic Mathematics, or equivalent ... }\end{array}$ Science 83.

GERONTOLOGY
GERONTOLOGY
five units required for the certificate
Geron $1 \quad$ Fundamentals of Aging
$\begin{array}{ll}\text { Geron } 2 & \text { Sociology of Aging, } \\ \text { Psychology of Aging }\end{array}$
$\begin{array}{ll}\text { Psychology of Aging } \\ \text { Geron } 3 & \text { Biology of Aging... }\end{array}$
Geron 5
Geron 11AB
Gsych 1A
Sociol 1 ging and the Quality of Gerontology Practicum General Psychology ....
Principles of Sociology.. Principles of Sociology ...
Total Units

GOVERNMENTAL MANAGEMENT-PUBLI SERVICE ADMINISTRATIO
Certificate Program
Personnel Management ............ 3
Fundamentals of Governmental
 State and Local Government State and Local
Management
Finance Management ............ $3_{3}^{3}$ Select any three of the following courses Management Concepts of Managervision..................... 3
Supan Manement ... 3 Human Relations in Management. Introduction to Data Processing Labor and the Economy... Laws Affecting Employees ........21-23
GRAPHIC ARTS - MULTI-MEDIA Certificate Program
Fourteen units required

$$
\begin{aligned}
& \text { GA } 10 \\
& \text { GA } 11 \\
& \text { GA } 12 \\
& \text { GA } 22 \text { or } \\
& \text { GA } 20
\end{aligned}
$$

Graphic Communications I Graphic Communications il ........
Composition, Layout and Paste-up
GA 20

Eleven units requir

| GA 2 | Offset Printing |
| :---: | :---: |
| GA 21 | Offset Printing in ${ }^{\text {a }}$ |
| GA 22 | Photography |
| GA 23 | Bindery, Total Units .. |

GA 22 Bindery, Cutting \& Distrib
GA 23
health aide
HEALTH AIOE
Certificate Program
equired courses for all certificates:
Required courses for al Ettective Behavior ... 3 Psychology of Effective Be
(or Psych 1 A , if eligible) (or Psych 1A, ir eligible)
The Communication Process ....... Eng $51 \quad$ The Communc if eligible) PE

| Health Aide course according to certificate desired: |  |
| :---: | :---: |
|  | Hospital Nursing Assistant |
| HA 15A or | Community Health Aide...... |
| HA 15C or | Developmenta $\begin{aligned} & \text { Retardation Aide }\end{aligned}$ |
|  | Mental Health Aide |
| $\begin{aligned} & \text { HA 15D } \\ & \text { HA 15E } \end{aligned}$ | Patient Education |

HEAVY MACHINERY

| HEAVY MACHINERY |
| :---: |
| Certificate Program |

Total of 35 units required for the certificate
and eight (8) units to be selected from the following courses: $\begin{array}{ll}\mathrm{Ag} 50 & \text { Shop Mathematics } \ldots \ldots \ldots \ldots \ldots ._{3} \\ \text { Weld } 30 & \text { Arc Welding }\end{array}$ Weld 30
Weld 32 Shop Mathematics $\ldots \ldots \ldots \ldots \ldots \ldots .{ }^{3}$
Arc Welling...................... 3
Oxy-Acetylene Welding WE Gen 70 Oxy-Acetylene Welding
WE Gen 70 WE Gen 72 Motivation.
Labor and
Labor and the Economy..
Laws Affecting Employees

## HUMAN RELATIONS

Areas of emphasis: Community Mental Health Worker Counseling, School, Social Services, Personnel Employment Counseling and Supervision
wenty-four units required for the certificate
Required courses for the certificate
Psych 1A
Psych
General Psychology
Psych 3/TA 3 Psychology of Personal and .......... 3
Psych 9/HR 9 Interviewing and Counseling ......... 3
HR 11AB
Practicum
Practicum .............
Principles of Sociology
.................3-3
11. With the approval of his/her counselor and the Division Chairman, the student will select a minimum of nine units (depending on areas of emphasis) from the following courses. It is considered advisable for students in certain areas of emphasis to take more than nine units
from the list below. from the list below.

| Anthro 2 | Cultural Anthropology ............. 3 | T 53 |
| :---: | :---: | :---: |
| Bus 6 | Management Concepts of | T 54 |


| Bus 6 | Management Concepts of |
| :--- | :--- |
| Supervision............................ 7 |  |
| Bus 7 | Human Relations in Magement... |
| Bus 50 | Introduction to Data Processing $\ldots .3$ | Human Relations in Management. Bus 79 Public Relations Techniques HR 8/Psych 8 Personal \& Career Development HR 10/Psych 10 Small Group Leadership

Jrn 3
Psych 18
Psych 2
Psych 2
Psych 11AB/
Psych 11AB/ Psychology of Effective Behavior.
HR 11 AB
HR 11AB Practicum ..............................
Math 12 Elementary Statistics
Psych 14 Abnormal Psychology..................
Psych 15 Social and Psychological Dynamics
Psych 17 of Drug Use
Psych 17
Psych 20

## Psych 26 ECE 26 ECE 26 Psych 35 Psych 40 Psych 46/ Psych 46 LE 46 Sociol 2 Sociol E 41 <br> LE 41

## LE 21 LE 33 LE 35 <br> LE 35 LE 36 <br> LE 37 LE 38



Psychology of Parenthood Psychology of Adolescence ......... $3_{3}^{3}$ Developmental Psychology: Conception to Death .
sychoogy of II. Ais Counseling .... 3
Drug Addict, and the Law
Drug Addict. and the Law ........ 3
Contemporary Social Problems.... 3
Mass Sociology and Collective Behavior

Total Units ............. ${ }^{3}{ }^{3}$

## AW ENFORCEMEN Certificate Program

Intro. to Administration of Justice .. 3 Concepts of Criminal Law Legal Aspects of Evidence ....... Justice System
Community Relations


## LEGAL ASSISTANT

## Cerla Progr

ntroduction to Legal Assistants ibrary Science \& Legal Writing ivil Procedures
Criminal Law
Corporations and Taxation civil Discovery and Evidence
Bankruptcy-Creditor/Debtor Real Estate for Legal Assistance Wills/Trusts/Probate
Total Units
asic library technician Certificate Program
Introduction to Library Services Support for Public Services. intro. to Audio-Visual Servic Cataloging and Classifyin Total Units

| Eighteen units required for the certificate |  |
| :--- | :--- |
| Bus 2 | Introduction to Business $\ldots \ldots \ldots \ldots 3$ |
| Bus 4 | Principles of Marketing........... |
| Bus 13 | Applied Business Law............ 3 |
| Bus 14 | Practical Salesmanship........... 3 |

Six units to be selected from the following courses:
Principles of Accounting. Bus 21 AB
Bus 23
Bus 65
Econ 1

Principles of Accounting
Practical Bookkeeping .. Proficiency-Exit Typewriting Office Machines Principles of Ecconomi Total Units

MEDICAL OFFICE ASSISTING Certificate Program
Thirty units required for the certificate
I. Required courses for the certificate Bus 21AB Proficiency-Exit Typewriting
. .2-2 $\begin{array}{ll}\text { Bus 24 } & \text { Proficiency-Exit Typ } \\ \text { Bus 24 } & \text { Records Management } \\ \text { Bus 49AB } & \text { Medical Trminel }\end{array}$ Bus 49AB Medical Terminology. Bus 22 Machine Transcription MA $1 /$ Bus
Eng Medical Iffice Assisting.
Reading and Composition
$\qquad$
 Reading and Composition.
II. Acceptable courses for the certificate ( 3 units from the

| ch 3 | Psychology of Personal and Soc Adjustment |
| :---: | :---: |
| Psyc | Psychology of Effective Behavior |
| Psych 17 | Social Psycholo |

Psychology of Crisis Counseling
III. Recommended as electives ido not fulfill certificat requirements)

| Span 19/ | Business Correspondence in |
| :---: | :---: |
|  | Spanish ............ |
| Bus 41 | Essentials of Business |

REAL ESTATE
Upon 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 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.

| Bus 90 | Real Estate Principles ............ 3 |
| :---: | :---: |
| Bus 91 | Real Estate Practices.............. 3 |
| Bus 92A | Legal Aspects of Real Estate |
| Bus 92B | Legal Aspects of Real Estate |
| Bus 93 | Real Estate Finance |
| Bus 94A | Real Estate Appraisal |
| Bus 94B | Real Estate Appraisal |
| Bus 95 | Real Estate Economics |

## RECREATION

|  | Certificate Program |
| :---: | :---: |
| Rec 70 | Introduction to Leisure . . . . . . . . . . . 3 |
| Rec 72 | Outdoor Recreation . . . . . . . . . . . . . 3 |
| Rec 73 | Recreation for Special Groups |
| Rec 74 | Intro. to Community Recreation .... 3 |
| PE 14 | Recreational Games ............ |

Two units selected from the following courses

| Art 31 | Crafts |
| :---: | :---: |
| PE 59AB | Sports Officiating. Men.............3-3 |
| PE 60AB | Sports Officiating, Women ........3-3 |
| PE 61 | Physical Education in the Elementary School... |
| PE 62AB | Physical Education for Special Olympics |
| Rec 71 | Social Recreation |

Two units selected from the following courses

| PE 2B <br> PE 3A <br> PE 3B <br> PE 4ABCD <br> PE 5A <br> PE 6 <br> PE 17ABCD <br> PE 18A <br> PE 18B <br> PE 25ABCD <br> PE 26A <br> PE 26B <br> PE 27ABCD | Intermediate Gymnastics, Coed. <br> Beginning Tennis, Coed. <br> Intermediate Tennis, Coed $\qquad$ <br> Badminton, Coed <br> Beginning Swimming, Coed <br> Life Saving <br> Physical Fitness, Men $\qquad$ <br> Beginning Golf, Coed $\qquad$ <br> Intermediate Golf, Coed <br> Folk Dance, Coed. $\qquad$ <br> Beginning Modern Dance, Coed . Intermediate Modern Dance, Coed <br> Disco Dance, Coed <br> Total Units |
| :---: | :---: |
| REHABILIT | ation technician for the HYSICALLY LIMITED Certificate Program |
| Twenty-three units required for the certificate |  |
| I. Required courses for the certificate |  |
| PL 1/Psych 1/ Understanding Exceptional ECE 27 Students :............... |  |
| PL 2AB | Practicum Experience to Work with the Physically Limited Person ...2-2 |
| Psych 1A or Psych 5 | General Psychology Psychology of Effective Behavior |
| Eng 51 or | The Communication Pr |
| Eng 1A | Reading and Composition |


|  | Option A |
| :---: | :---: |
| PL 20 | Literary Braille...................... |
| PL 21 | Psychology of Physical Disabilities . |
| - 6 units selected from acceptable courses below or from |  |

# Option B 

6 units selected from acceptable courses below or from 6 units selected fr
Options B and C

PL 11 intermediate Communication with
the Deaf.......................... 4 unis selected irom acceptable courses below or from Options A and C

## Option C

PL 33 Introduction to Audiology ............ Conservation ..................... 3 6 units selected from acceptable courses below or from Options $A$ and $B$

Option D
HA 15A or Hospital Nursing Assistant ......... 9 HA 15B or ommunity Health Aide. evelopmental Disability/Mental
Retardation Aide.................

CERTIFICATE PROGRAMS


Psych 5
VN 50
VN 51
VN 52
VN 52
VN 53
VN 53
VN 54
VN 54
VN 55
VN 56
VN 56

## WT 1 WT 2

WT 2
WT 3
WT 4
WT 4
WT 6
WT 7


## CATIONAL NURSING <br> Certificate Program

Options A, B and C acceptable courses below or from
Acceptable courses for the certificate
Olympics...... for Special
the Deaf.................. with
PL 30 College Classroom..........1-1-1-1
merview and Testing Technie..... Speech \& Hearing Problems
Behavior for for Speech \& Hean Techniques Introduction to Physical Therogy. Psychology of Personal and Soc.... Interviewing and Counseling. Principles of Sociology

## Certificate Program

ntroduction to Education
Psychology of Persol Associate.....
Adjustment.......................
Multicultural Edingua
Bilingual-Multilingual Curriculum
and
Language Arts for Instructiona......



Psychology of Effective Behavior ... 3
(or Psych 1A Medical-Surgical if eligible) Medical-Surgical Nursing Medical-Surgical Nurs ... Maternal-Child Health Nu if Clinical Fundamentals Nursin Medical-Surgical Nursing ii. Total

## WATER TREATMENT TECHNOLOGY <br> Certificate Program

Water Treatment Plant Operator I Waste Water Treatment Operator II Waste Water Treatment II
Computational Procedures for
Computational Procedurer I I....... 3
Treatment Plant Operator II
Total Units ..........

| A | Credit by Examination .............................. 19 |
| :---: | :---: |
|  | Credit for Upper Division Course Work .............. 19 |
| Absence ........................................ 20 | Credit Classes.................................. . 18 |
| Academic Dismissal ................................ $20 .$. | Curricula, Occupational............................. 25 |
| Academic Probation .............................. 19 |  |
| Academic Renewal ................................. 19 | D |
| Accreditation.................................... 15 |  |
| Activities, Student . . . . . . . . . . . . . . . . . . . . . . . . . . . 16 | Deadline Dates . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 5 |
| Administration ..................................... 6 | Degrees........................................ 14 |
| Admission ....................................... 16 | Dismissal Policies ................................ 20 |
| Advanced Standing ................................ 16 | Directors and Coordinators ....................... 7 |
| Foreign Students . . . . . . . . . . . . . . . . . . . . . . . . . 16 | Division Chairpersons ........................... 7 |
| High School Graduates .......................... 16 | Dramatic Art .................................. 37 |
| Non-Graduates of High School ..................... 16 | E |
| Out-of-State Students ........................... 16 |  |
| Special High School Students . . . . . . . . . . . . . . . . . 16 | Early Childhood Education........................... 37 |
| Affiliations, Institutional . . . . . . . . . . . . . . . . . . . . . . . . . 15 | Economics . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 37 |
| Agricuiture ....................................... 26 | Education (not a major) ............................. 38 |
| Alpha Gamma Sigma ............................... 15 | Education, Teachers Preparation .................... 86 |
| Anatomy . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 28 | Electricity ........................................ 38 |
| Anthropology ...................................... 28 | Electronics . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 38 |
| Approval by Veterans Administration ................. 2 | Emergency Medical Technician .................... 38 |
| Art. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 29 | Engineering ...................................... 38 |
| Assistance. Financial ............................... 15 | English ........................................... 40 |
| Associate Degree Nursing . ........................ 57 | Enroliment, Concurrent High School and College ..... 14 |
| Associate in Arts Degree . . . . . . . . . . . . . . . . . . . 14, 21 | Entrance Examinations ............................ 16 |
| Associate in Science Degree ...................... 14, 21 | Environmental Science ........................... 43 |
| Associated Students . . . . . . . . . . . . . . . . . . . . . . . . . 16 | Evening Coliege ................................. 14 |
| Astronomy . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 30 | Expenses ........................................ 15 |
| Athletics .......................................... 16 | Extension Courses, Credit for ....................... 24 |
| Courses ....................................... 60 | External Campus ................................. 14 |
| Intercollegiate .................................... 16 |  |
| Attendance and Automatic Withdrawals.............. 20 | F |
| Automotive Body and Paint ........................ 30 |  |
| Automotive Technology . ............................ 30 | Facilities ......................................... 12 |
| Aviation......................................... 31 | Facuity ........................................... 8 |
| Awards, Scholarship ............................... 15 | Family Educational Right \& Privacy Act of 1974 ...... 17 |
| B | Fees, Registration ................................ 15 |
|  | Financial Assistance . . . . . . . . . . . . . . . . . . . . . . . . . 15 |
| Biology ............................................ 31 | Fire Science .................................... 43 |
| Board of Trustees .................................. 6 | Foreign Students . . . . . . . . . . . . . . . . . . . . . . . . . 16 |
| Bookstore.......................................... 16 | French ............................................ 44 |
| Botany ........................................... 31 |  |
| Business ....................................... 31 | G |
| c | General Education............................... 13 |
| c | Requirements at IVC............................. 22 |
| Calendar ........................................... 4 | Requirements for California State Colleges ......... 25 |
| California State Colleges............................ 25 | Requirements for University of California .......... 25 |
| Carpentry . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 35 | Geography . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 45 |
| Certificate Programs . . . . . . . . . . . . . . . . . . . . . . . 25, 88-93 | Geology .......................................... 45 |
| Chairpersons, Division.............................. 7 | German . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 46 |
| Changes in the Catalog . . . . . . . . . . . . . . . . . . . . . . . . 21 | Gerontology . ...................................... 46 |
| Chemistry . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 36 | Governmental Management ........................ 34 |
| Class Schedules, Change in .......................... 18 | Grade Points .................................. 19 |
| College Center ..................................... 16 | Grade Reports, Semester ........................... 19 |
| Construction Inspection ........................... 36 | Grades........................................ 18 |
| Cooperative Work Experience . . . . . . . . . . . . . . . . . 14, 71 | Grading System ..................................... 18 |
| Correspondence \& Extension Courses, Credit for ..... 24 | Graduation Honors ................................. 14 |
| Cosmetology . ...................................... 36 | Graduation Petition . . . . . . . . . . . . . . . . . . . . . . . . . . 21 |
| Counseling and Guidance Services ................. 15 | Graduation Requirements . . . . . . . . . . . . . . . . . . . . . . 21 |
| Courses of Instruction ............................... 26 | Grants ........................................... 15 |
| Courses, Types . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 13 | Graphic Arts . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 46 |
| Credentials. Teaching ............................. 86 | Guidance Services................................. 15 |
|  |  |


|  | H |
| :---: | :---: |
| Health Aide |  |
| Health Education | .............. 47 |
| Hearing Process. | 48 |
| Heavy Machinery | 20 |
| High School, Attendan | , 48 |
| Honors .... Attendance of Student .................. 14 |  |
| Summer | 14 |
| Vocational | 14 |
| High School \& College, Concurrent Enroliment ........ 14History |  |
|  |  |
| History of College................................ 48 |  |
| Honor List, President's.............................. 12 |  |
| Honors Courses .................................. 15 |  |
| Honors, Graduation ........................... 14 |  |
|  |  |
| Honors, Scholastic ...ing School Students............ 14 |  |
| Humanities...t |  |
| Human Relations Courses ....................... 49 |  |
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## Natural Science

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