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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
American Welding Society
Commission on Peace Officers Standards and Training
California Board of Registered Nursing
California Board of Vocational Nurse and Psychiatric Examiners

A
MEMBER
of
California Community and Junior College Association

## APPROVED

for
The Veterans Administration

## IMPERIAL VALLEY COLLEGE 1989-1990 SCHOOL CALENDAR

| 1989 |  |  |  |
| :---: | :---: | :---: | :---: |
| August | 22 | Tuesday | Registration |
|  | 23 | Wednesday | Registration |
| September | 4 | Monday | Holiday (Labor Day) |
|  | 5 | Tuesday | Faculty Service Day (Orientation) |
|  | 6 | Wednesday | Fall Semester Classes Begin |
| November | 10 | Friday | Holiday (Veteran's Day) |
|  | 23 | Thursday | Recess (Thanksgiving) |
|  | 24 | Friday | Recess (Thanksgiving) |
| December | 18 | Monday | Recess (Christmas) |
| 1990 |  |  |  |
| January | 1 | Monday | Last Day of Recess (Christmas) |
|  | 9 | Tuesday | Registration |
|  | 10 | Wednesday | Registration |
|  | 15 | Monday | Holiday (King's Birthday) |
|  | 22 | Monday | Final Exams Begin (Day \& Evening) |
|  | 26 | Friday | Last Day of Final Exams |
|  | 29 | Monday | Semester Break |
|  | 30 | Tuesday | Semester Break |
|  | 31 | Wednesday | Spring Semester Classes Begin |
| February | 9 | Friday | Holiday (Lincoln's Birthday) |
|  | 19 | Monday | Holiday (Washington's Birthday) |
| April | 16 | Monday | Recess (Spring) |
|  | 20 | Friday | Last Day of Recess (Spring) |
| May | 28 | Monday | Holiday (Memorial Day) |
| June | 6 | Wednesday | Final Exams Begin (Day \& Evening) |
|  | 7 | Thursday | Final Exams |
|  | 8 | Friday | Final Exams |
|  | 9 | Saturday | Graduation (Service Day) |
|  | 11 | Monday | Final Exams |
|  | 12 | Tuesday | Last Day of Final Exams |

## IMPERIAL VALLEY COLLEGE DEADLINE DATES

## FALL SEMESTER 1989

| September | 5 | Tuesday |
| :--- | ---: | :--- |
| September | 6 | Wednesday |
| September | 20 | Wednesday |
|  |  |  |
| September | 25 | Monday |
| September | 29 | Friday |
| October | 13 | Friday |
|  |  |  |
| November | 13 | Monday |
| December | 8 | Friday |
| January | $22-26$ | Monday - Friday |
| January | 26 | Friday |

Residence Determination Date Fall Semester 1989 First Day of Classes
Last Day to Add or Register (End of 2nd Week) Last Day to Apply for Tuition Refund
First Census Day (Monday of 4th Week)
Last Day to Apply for Graduation and Certificates
Last Day to Remove Incompletes for Spring 1989 and Summer 1989 (End of 6th Week)
Second Census Day (Monday of 11th Week)
Last Day to Drop with a "W" Grade (End of 14th Week) Final Examinations
Last Day of Fall Semester 1989

## SPRING SEMESTER 1990

| January | 30 | Tuesday | Residence Determination Date Spring Semester 1990 |
| :--- | ---: | :--- | :--- |
| January | 31 | Wednesday | First Day of Classes <br> Last Day to Add or Register (End of 2nd Week) <br> February |
|  | 14 | Wednesday | Last Day to Apply for Tuition Refund |
| February | 20 | Tuesday | First Census Day (Monday of 4th Week) |
| February | 23 | Friday | Last Day to Apply for Graduation and Certificates <br> Last Day to Remove Incompletes for Fall 1989 <br> March |
|  | 9 | Friday | (End of 6th Week) |
| April | 9 | Monday | Second Census Day (Monday of 11th Week) <br> May |
| 11 | Friday | Last Day to Drop with a "W" Grade (End of 14th Week) |  |
| June | $6-8$ | Wednesday - Friday | Final Examinations |
| June | 9 | Saturday | Graduation Day |
| June | $11-12$ | Monday . Tuesday | Final Examinations |

## THE BOARD OF TRUSTEES

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EOPS Director/Financial Aid Coordinator
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LEONARD, THOMAS
Psychology
1964.72
NOVAK, RUTH
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1958-72
HINSHAW, JOHN
MINSHAW,
Mathematics
1942-73
UPSON, JOHN
English
1966.77
GARTIN, HERBERT
Psychology
$1966-78$
MOORE, ERNEST
Business
1970.78
SPENCER, TERREL
Superintendent/Presiden
1963.78
BARKER, MICHAEL
Anthropology
1968.79
WHITE, HOWARD
WHITE, HOWARD
Law Enforcement
SWANN, MARIE
English
S.
English
1964.80

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EMERITUS FACULTY
WEISSMAN, HARRY

## English 1969.80

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Law Enforcement
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FINLEY, LUTHER
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Engineering
1960.81
FINNEY, DEE
Physical Education
GENTRY, GLENN A.
Work Experience Work Experience OVERMAN, RUTH Business
$1965-81$
SAMUELS, CARMEN Nursing
1971.81
SAMSON, WALTER SAMsY
History
1963.82
ANDERSON, LESLIE
Law Enfo
1967.83
LEWIS, STANLEY H.
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## THE COLLEGE

## LOCATION

The Imperial Valley College is located in Imperial Valley, lons recognized as one of the richest, most productive agricultura region attractive to tourists and helped it to become an outstand ing 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 mperial County and is within reasonable commuting distance

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 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 commehool districts.
It had its beginning on May 9, 1922, when the Board of Trustees of the Central Union High School District of EI Centro passed a resolution establishing the Central Junior College. This institution rmall opened
Two years later, in the fall of 1924, the Brawley Union High Enrollments increased in both schools until the war years, when attendance dropped sharply. Brawley Junior College was forced by lack of attenda
1947 school year.
Although enrollment dropped at Central Junior College, the institution continued to operate and after the war years, steadily gained in attendance.
The Associate in Arts degree was first conferred by Central Juior College in 1934.
In the fall of 1951, students, in cooperation with the administration and faculty, petitioned the Board of Trustees for a more epresentative name for the college, for it was now serving stu dents from alf of the Imperial valley. By action of the B
The school, under the administration of the Central Union High School District, gained recognition as an accredited institution higher education. As the institution grew with the community this growth was reflected in the steady rise in enrollment
the diversity of courses and curricula that was offered.
The extended-day program, which offered regular college rowth served to enlarge the service of the collese to the cap munity.
An increasing number of students from other high school disricts attended the college in EI Centro, and it was felt that a ounty-wide community college district with a campus of its own could offer much more to the students and be of greater servic
A recommendation that such a county-wide community college
district be established in Imperial County was submitted to the State Department of Education and was approved on July 10 1959. The County Superintendent of Schools then set a date for
an election at which all qualified voters residing within the boundaries of the seven high school and unified school districts were
eligible to vote. The election was held on October 6, 1959; and by an overwhelming vote of twelve to one, the Imperial Valley Junio College District was established. This was followed by the election of the members of the Junior College District Board of Trustees, ne of whom comes from each of the seven high school or unified school districts represen
Junior College District.
This District includes all of Imperial County except a small area in the northwest corner of the County which is a part of the Coa chella Valley Community College District.
Because of the increase in enrollment at both Central Union
ligh School and the Imperial Valley College and ber High School and the Imperial Valley College, and because of the ack of space on the campus of the Central Union High Schoo in El Centro, the Imperial Valley College moved to temporary School in Imperial, California.
On October 4, 1960, an all-time state record was set by the people of Imperial County when they voted thirteen to one in favor of bonds to finance the building of a new campus.
The Board of Trustees selected a nationally known architectural firm to plan the new buildings, and a 160 acre site which met the criteria recommended by the Citizens' Committee was selected he new campus.
On January 13, 1971, the Board of Trustees changed the name of the District to Imperial Community College District in order
of further emphasize the close relationship the college has with its service area.

## FACILITIES

On October 29, 1961, an impressive ground-breaking service was held for the new campus. Board members manned gian earth-moving equipment to break ground for thes eroject. The new
buildings included a library, science laboratories, fine arts rooms, student activities building, academic classrooms, administration and faculty offices, social science rooms, physical education shower and locker rooms, and agriculturaled.
and shop. The new campus opened in 1962.
A steady growth pattern began in April of 1967 with the addition A steady growth pattern began in April of 1967 with the addition
of the multi-purpose building. The building was designed to house sporting and theater events, and was comparable to any such community college structure in the State. Three other projects followed which were completed through community donations:
The Janey Jackson Memorial Fountain, 1969; the renovation of the Holtville Train Depot, located in the cactus garden, 1971; and the Meyer Center for Business and Commerce. The Meyer Center was dedicated February 20, 1972, at ceremonies commemorating the 50th anniversary of the Imperial Community
College District. Also recognized the same day was the opening of the archaeological museum at 442 Main Street in El Centro in buildings donated by H. P. Meyer and the new agriculture-weldins complex. The museum was later named the Barker Museum honoring Michael Bark
archaeology instructor.
Other building projects which followed were: Associated Students Activities Building, 1971; the new Library/Media Center 1975, which was later named the Spencer Library Media Center honoring Terrel Spencer, President Emeritus; the swimming pool complex, 1975; remodeling of the Student Union and the cafeteria
into the College Center complex, 1977; and the preschool, 1981, which was constructed off Highway 111 on a section of the campus named Rider Park, honoring Amos R. Rider, deceased. Mr. Rider served as the first custodian and maintenance supervisor at the new campus in 1961. Additionally, a modernization of facilities to remove arch
pleted in 1982.

On September 17, 1982, ceremonies were held to commemrom less than one thousand students a year in the insly sixties, the college now enrolls approximately five thousand students ach year

## MISSION AND GOALS

The urban isolation experienced by Imperial Valley Coilege wide range of educational programs services, and innovations.
In view of this privileged role, the over-riding mission of Imperial Valley College is to serve our community today and in the future We are both a leader for new ideas and a servant fulfiling the sts and also presen new ideas that will be community inter ests and also pre
the years ahead.
To fulfill this mission, we must know our constituency well It is a unique one with highly diverse interests and educational back rounds. The area is predominately agricultural with a large nority population, and statistically, it is a low economic sector advanced education and training for many of the residents. As an educational institution, our primary responsibility is to Through our offerings, Imperial Valley College seeks to enrich the lives of our students, be it vocationally, academically, or avocaionally. We must be sensitive to the individual and to his/her needs,
Our offerings must extend outside of the classroom. Through counseling, special programs, presentations and services, Imperia aliley College striyes to contrib
The goals for Imperial Valley College are as follows:

1. Provide quality teaching that is responsive and sensitive to the individuals served through the integrated efforts of all the staff. The college exists for the benefit of the stuPROCESS - Close communication between and students, input by community and staff at all levels of operation, accessibility of services and personnel, diverse programs designed for a diverse population, staff training and sharing of ideas.
2. Provide a quality vocational and professional education for students. A major emphasis at Imperial Valley College is
oo equip the student with marketable skills and to allow members of the work force to upgrade their skills.

PROCESS - Two-year degree programs, cer tificate programs with
ing education courses.
3. Develop a well-rounded formal academic program. mperial Valley College offers an associate degree program comparable to
United States.

PROCESS - Staff commitment to high standtransfer program with lower division courses, developmental program to prepare students for the mainstream of college work with special
attention to students whose native language is attention to students whose native language is aids for students deficient in educational skills.

Provide enrichment and special interest programs. Edu atlyon ond spirs a means to expand horizons and grow intellectu program or be ends in themselves.

PROCESS - Short-term programs, continu ous courses in the arts and culture, encourage ment of student presentations and participa
tion, flexibility of schedules and course loads.
5. Provide integrated support services for educationa programs and student activities. Successful education is

PROCESS - Strong counseling program, service library, creative and supportive studen activities personnel, open cooperation and communication between areas
6. Provide services to the community at large. As a leading educational institution, Imperial Valley College recognizes
responsibility to go beyond the campus and the course. PROCESS - Special cultural and informationa presentations open to all, entertainment, avail ability of resources and facilities, exchange of wide publicity of events and services.
7. Maintain high standards through assessment, develop Maintain high standards through assessment, develop-
ment, evaluation, improvement, and accountability. The commitment to excellence is an ongoing process. To fulfill its many responsibilities, our college must be current with its

PROCESS - Tin
munity input encourageds surveys and com development, meaningful evaluations of all aspects of the college program and subsequen improvements, goals efficiently.
8. Prepare students to make contributions, through know Prge, to the quality of life in the imperial Valley. Educa tion creates opportunities and makes choices possible.
mprovement of self-concept heightens respect for others and or the environment. Ultimately, it builds a solid community,
otrong nation, a verier woris

PROCESS - Diverse offerings that serve the needs of our diverse community, honesty and respect for all involved, dedication to instilling
high ideals and standards.

TYPES OF COURSES AND PROGRAMS
In order that Imperial Valley College may achieve its goal of serving all students who desire to learn, a variety of courses are
offered. Some will equip a student with job entry.level skills and other courses provide a 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 collegis and uniessities.
Regardless of the interests of the students, the first two years of
college work normally can be completed at Inperial Valley Col lege. 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 it offers an excellent transition between the high school 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 instructors personally; and the chance to participate in the dent that might not be available in an institution where the very size of enrollment makes personal interest in every student more dificult. Not only can the student receive excellent persona
assistance with work, but the opportunities for leadershin in assistance with work, but the
student affairs are increased.
Through the counseling program, a close scrutiny is given to the Is anich a student enrollis. The student plans ahead, sets up goals and systematically in

Many of the needs of the student who seeks employment at the end of the sophomore year can be met by a variety of occupa sic hadd in the shortest pibl to to the the meet specific needs in the shortest
student for a field of employment.
These courses also offer a well-organized general education program to meet the needs of the individual
years to devote to post-high school education.
The community college program also includes courses of stud which may be taken by adults who can demonstraute their ability to do college work but who have not had the opportunity to com
plete high school. Evidence of success in classes of college leve plete high school. Evidence of success in classes of college leve
will permit these adults to continue their educational endeavors Coordinated with the general divisions of courses at the college students who can devote only evenings to school; students wh cannot fully participate in regular classes on the main campus tudents who can coordinate their college study with a program students who can profit by special work at the college level; and physically limited students.

1. The Evening College

The Evening College, composed of regular college classes ciate in Arts degree or Associate in Science degree, to con plete regular lower-division work in a four-year program, to make up any high school deficiencies, or simply to take addi Although evening college programs require more time to adequate planning and the assistance of a counselor they are able to attain their higher education goals in a surprisingly short time.
2. The External Campus

The External Campus program provides Imperial County residents practical and convenient access to college courses
for credit in all communities at approximately 98 locations The credit in all communities at approximately 98 locations. time and evening classes staffed by pedrict provides day bers of the main campus faculty, and one counselor
The goal of the off-campus program is to offer expande delivery capability, flexibility, and quality instruction to the 14 communities comprising the Imperial Valley College District.
These community-based classes help solve the problem of isolation experienced by Imperial Valley residents. All classes are scheduled in frequent cycles throughout the year in suc
areas as: Office Technician, Legal Assistant, Hospital Nursin areas as: Office Rechnician, Legai Assistant, Hospital Nursing
Assistant, Patient Services Administration, Emergency Medical Technician, Real Estate, Microcomputer Operations, Sourses are offered in Allied Health Technologies, Admin istration of Justice, and Fire Science. Private Industry hurches, school districts, and San Dieg State University, Imperial Valley campus
3. Cooperative Work Experience

Cooperative Work Experience is a cooperative educationa program between Imperial Valley Community College an community employers. The college provides the organization the coordination of class facilities, and the personnel for the tions) and on-the-job training which has educational value fo the students. The units of credit earned may be used to meet the requirements of a certificate or a degree.
4. Attendance of Local High School Student

Local high school students attending the college under the Honors or Vocational programs are restricted to a spectator' role in college student activities, and extracurricular partici
pation is to be confined to the high school Counseling is pation is to be confined to the high school. Counseling is
available at the college, but every effort will be made to leave availabes at the college, but every enfort wiility to the high school counseling staffis.
Students must be authorized for attendance and shall receive appropriate college credit. High school credit for Honors o
Vocational classes may be negotiated. or
Students must attend high school for the minimum schoo Admission of 11th and 12th Grade High School Students The president of any two-year community college may admit to the community college as a special part-time student an 11 th or 12th grade high school student whose admission is recommended by the high school principal. A principal of a
high school may recommend a high school student as a special part-time student pursuant to rules and regulations which may be adopted by the governing board of the distric maintaining the high school. A princinal of a high school shall not recommend a number of high school students in excess of
15 percent of the total number of 11 th and 12 th grade student 15 percent of the total number of the thand of recommendation
enrolied in the high school at the time of The student is authorized attendance at community college as a special part-time student pursuant to this section and shall receive credit for community college courses com
pleted in the same manner as if regularly enrolled at the com pleted in the same manner as if regularly enrolled at the com munity college unless, upon agreement between the two
districts, the student receives high school credit for the districts, the stud.
Each special part-time student shall attend high school classe for at least the minimum school day. (E.C. 76001)
Admittance of Pupil Who Has Completed 11th Grade to Summer Session: Crediting Summer Session
Attendance

The president of any two-year community college may admit ot the summer session of the community college as a specia grade and whose admission to summer session is recom gended by the principal of the high school in which the student completed the 11th grade. A principal of a high schoo may recommend such a student as a special student pursuan to rules and regulations which may be adopted by the gov
erning 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 11th grade in excess of 5
percent of the total number of sudents in the high schoo percent of the total number of students in the high schoo
who have completed the 11th grade immediately 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 apportionments from the for the purposes of alowances and apportionments from the
State School Fund and the student shall receive credit for community college courses completed, in the same manner
as if a regularly enrolled community college student. (E.C. as if a regularly enrolled community college student. (E.C. 6002)
5. Physically Limited Program

The Physically Limited Program is designed to provide sup-
portive services to students with physical disabilities, learning disabilities, and health problems. The program provides preferential registration, counseling, class scheduling, tutoring, mobility assistance, interpreting, braille transcribing, adaptive physical education, special parking, and nursing

## DEGREES

The Board of Trustees, on recommendation of the president and faculty of the college, is authorized in accordance with Article
12. Section 102, of the State Administrative Code, Title 5 , to confer the Associate in Arts (A.A.) and the Associate in Science (A.S.) degrees. Conditions under which the degrees are granted are outlined in the section on graduation requirements.
The community college degree is awarded to a student who fulfills a two-year organized program of work, either of an occupacollege type. A student who wishes to transfer to the uppercollege type. A student who wishes to transfer to the upper-
division of a four-year college must satisty the course, unit, and grade requirements of the college he/she wishes to enter.

## GCHOLASTIC HONOR

"With Distinction" is accorded those graduates who in the "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 colliege gives special recognition to top scholars each semester by publishing a list of students whose twelve or more units of work.

Alpha Gamma Sigma
Initial Membership: A person may attain initial membership if

1. Completed 12 semester units in a maximum of 3 semesters. more than two years prior to application for initial membermhip shall be used.
Continuing Membership: An initial merrber may attain continuing membership by:
2. Achieving for the previous semester not less than a 3.25
3. Maintaining a cumulative GPA of 3.25 or better in courses of recognized college standing
Continuing members will receive one semester's grace for every semester of earning continuing membership. If the continuing
member's GPA falls below 3.25 but remains above 2.5 (either per member's GPA fails below 3.25 but remains above 2.5 (either per
semester or cumulative), he/she may apply one semester's grace earned to maintain continuing membership for the semester the earned GPA would apply. There shall be no two consecutive grace periods.

Permanent Member: Any person who has completed a mini30 units completed recognized college courses with a minimum of 30 units completed at a community college who applies for per-
manent membership and who meets either of the following requirements:

1. A person who has maintained a cumulative grade point 2. ratio of 3.5 or above in all recognized college work.
2. Any continuing member who has maintained a cumulative been a member of AGS. Inc., for minimum work and has been
ters.
Any courses completed two years prior to application for permanent membership, whether at a community college or other institution of higher education, shall not be used to prohibit any person from becoming a permanent member

## FINANCIAL ASSISTANCE

Imperial Valley College believes that no student who has the ability to profit from instruction should be denied an education due to a lack of financial means.
There are several types of aid available to needy, deserving students each year. This assistance is made available by the coillege district, the state and federal governments, civic 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 scholarships, workloans.
Further information regarding financial assistance may be
secured from the Financial Assistance and Placement Services Secured from the Financial Assistance and

EXPENSES
All Fees and Tuition are due and payable at the time of registra.
Registration in courses WILL NOT be finalized until the tion. Registration in courses WILL NOT be finalized until the college has received full payment
FEES
Enrollment'Fee
10 units or more
less than 10 units
Parking Fee
$\begin{array}{ll}\text { First vehicle } & \$ 10.00 \\ \text { Each additional vehicle } & \$ 5.00\end{array}$
NOTE: Students enrolled solely in off.campus classes are not required to pay the parking fee.

## EXPLANATION OF FEES

The Enrollment Fee mandated by the California State Legislature, with the approval of the Governor, requires all Califirnia Community Colleges to charge students an Enrollment Fee assistance and fee waivers for low income students who cannot afford to pay this fee and who qualify according to State guide-
lines. Information for financial assistance and fee waivers can be obtained through the Financial Assistance and Placement
Services Office Services Office.
The Parking Fee provides administrative and operating funds for parking and transportation-related facilities.

## ruition

Non-residents and international students are required to pay tuition charges of $\$ 94.00$ per unit in addition to the fees outlined

The College will accept payment from non-resident and inter national students in cash, Western Union money orders, trave er's checks, and bank drafts. Personal checks cannot be accepted. Paynient of non
tuition cannot be deferred.

## OTHER FEES/CHARGES

Non-Sufficient Funds Check Charge
There will be a charge of $\$ 10.00$ for checks returned to the
college because of insulficient funds.

## REFUND POLICY

Upon completion of refund request form, reimbursement in
full will be made for the following

1. Fee or tuition collected in error
2. Fee or tuition for a discontinued clas

A student refund request form must be completed and filed ceive reimburse
ment or the following.

1. Enrollment Fee
2. Tuition

## PARKING PERMIT

ALL. vehicles parked on campus must have a valid parking permit. If you will be bringing a vehicle to campus, please com packet.

## ACCREDITATION

The college is officially accredited by the Accrediting Commis. sion for Junior Colleges, Western Association of Schools and Colleges, American Welding Society, the State Department of Education, and the Commission on Peace Officers Standards
and Training. The University of California and other colleges and universities give full credit for transfer courses completed here.

COUNSELING AND GUIDANCE SERVICE
It is the aim of Imperial Valley College to provide all students 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 mos 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 open between the hours of $8: 00 \mathrm{a} . \mathrm{m}$. and $9: 00 \mathrm{p} . \mathrm{m}$. Monday through Thursday, and 8:00 a.m. and 5:00 p.m. on Friday. A Career Center is located in the Counseling Center and provide
Although counselors assist in long-range planning and in check
ing specific requirements, THE RESPONSIBILITY FOR MEET ing specific requirements, THE RESPONSIBILITY FOR MEET
ING GRADUATION REQUIREMENTS OR REQUIREMENTS FOR TRANSFER TO OTHER COLLEGES OR UNIVERSITIES MUST BE ASSUMED BY EACH STUDENT. In the Counseling Center students have access to a reference library of catalog rom various colleges and universities.

## STUDENT ACTIVITIES

Student affairs are governed by the Associated Students of
mperial Valley College. erial Valley College.
Those students who are socially inclined will find an opportunity for the development of their interests in clubs and the social aifairs 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 oppor unities 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 textbook and necessary supplies are available. The College Center Building contains a snack and coffee bar that provides refreshments an

## ATHLETICS

Intercollegiate competition is held in a variety of sporls. IVC ompetes in the Pacific Coast Conference. Pacific Coast Co rerence includes Grossmont, MiraCosta, Palomar, San Diego
City. San Diego Mesa, and Southwestern Colleges,

## LEARNING SUPPORTIVE SERVICES

Learning supportive services are designed to provide extensive programs for remediation and enrichment learning and to offer
courses designed for the student to gain mastery of study skills and learning techniques. Tutorial assistance services are also available in the Learning Supportive Services Center, and the mperial Valley College Tutors Club provides many academic enrichment activities for students interested as tutors. In addition,
bilingual services exist for students with limited English-speaking ability and who desire academic assistance in lingual interpretation in their courses.
The Learning Supportive Services Center houses a variety of audiovisual equipment and media. It has an extensive inventory of slides, tapes, filmstrips, records, multi-media kits, and other ect range of courses offered on this campus An extensive video. cassette library has been developed which provides students with an opportunity to view educationally relevant television broad

## REGULATIONS

## ADMISSION

Admission to Imperial Valley College is governed by the laws of the State and such supplementary regulations as prescribed by the Board of Trustees. Students who register for eight or more units of work in a given semester or upon an accumulation of eigh or more units, are requested to ( 1 ) ensure that an official transcrip
of all work taken in high school and/or institutions of thigher educa tion are on file in the Registration Office; and (2) complete the college placement tests (unless they have completed regular college courses in both English and mathematics).
All students are admitted under one of the following classifi ations:

1. High school graduates or equivalent certificates (General (acaional Development or California High School Prfficiency Examination)
2. Non-graduates of high school who are eighteen years
of age. of age.
3. High school students who are recommended by the high school principal for one to nine units of work. (Must submit a
Concurrent Enrollment Form.) Extracurricular participation is to be confined to the high school. These students must attend high school for the minimum school day.
4. College transfers who submit official transcripts (high
school and college) may be granted advanced standing ) standing
5. Prospective foreign students and students from other
states may be accepted for enrollment. A tuition fee will be states may be accepted for enrollment. A tuition fee will be
charged. Contact the Registration Office for current

## TRANSCRIPTS

Imperial Valley College furnishes two free transcripts. Thereafter, a fee of $\$ 2.00$ is charged for each additional transcript. Requests for transcripts will not be
obligations to the College are met.

FAMILY EDUCATIONAL RIGHTS AND
PRIVACY ACT OF 1974 All educational records of students who enroll at Imperial Valley
College are kept in accordnce with the provisions of the Family
Educational Rights and Privacy Act of 1974. Educational Rights and Privacy Act of 1974.
The following information will be avaitable in the Admissions
and Counseling offices on each enrolled student: name, address and Counseling offices on each enrolled student: name, address,
telephone, birthdate, registration number, list of classes and section numbers, instructors, units, room numbers, hours in
which the student is enrolled, dates of attendance, enrollment date and completion/withdrawal date, activities participated in, and degrees awarded. Any student who does not wish his/her
name included on this listing must fie a petition name included on this listing must fiie a petition requesting
deletion from the list before the openig of the school term
For additional information or a copy of the entire law, contact

## AFFIRMATIVE ACTION POLICY

The District adopted an Affirmative Action Plan in 1973. The Plan was revised in 1979, 1981 and in 1985. The establishment and development of the Plan demonstrates the District's commitment to affirmative action and equal employment opportunities for all employees and prospective employees. The Plan is avalable in
the Spencer Library Media Center, the Superintendent's office, and the Affirmative Action Officer's office.

## NON-DISCRIMINATION POLICY

Imperial Valley College does not discriminate in the admission nor in the offering of programs and activities because of race, color
cap.
The coordinator for Imperial Valley Colleges's compliance with Section 504 of the Rehabilitation Act of 1973 is Melvin Wendrick,
P.O. Box 158, Imperial, CA $92251,(619)$ 352-8320, Ext. 312, TTY (619) $355-4174$. The Titte IX officer for Imperial Valley College is Jan Magno, P.O. Box 158, Imperial, CA 92251, (619) 352-8320,

## RESIDENCE REQUIREMENTS

Under the Education Code, the general rule is that a student must pay nonresident tuition unless the student can qualify as a resident student or meet the requirements of certain special pro-
visions. Since the concept of residence involves subjective intent visions. Since the concept of residence involves subjective intent,
this catalog cannot anticipate every question that will arise in this catalog cannot anticipate every question that will aris
connection with determining whether such intent exists.

Each person enrolled in or applying for admission to a California Community College is, for the purposes of admission and tuition,
classified as a "resident" or a "nonresident."
Students classified as a "resident" will be admitted without payment of nonresident tuition. Students classified as "nonresi-
dents" will be required to pay tuition in an amount set by the dents will be requ.
Governing Board.

1. A "resident" is a person who has resided within California for at least one year and a day prior to the term of enrollment.
2. A "nonnesident" is a person who does not have residence in California for more than one year and a day prior to the term of enrollment.
The "Residence Determination Date" shall be that date immediately preceding the first day of class either semester or summer
term. Resi
Residency requires physical presence in California with an ake one's home here.
To determine a person's place of residence, reference is made
3. Every person who is married or 18 years of age, or older,
and under no legal disability to do so, may establish residence.
4. There can be only one residence
5. The residence can be changed only by the union of act and intent.
6. The residence of the parent with whom an unmarried minor child maintains his/her place of abode is the residence of the unmarried minor child. When the minor lives with neither parent, his/her residence is that of the parent with
whom he/she maintained his/her last place of abode. The whom he/she maintained/ his/her last place of abode. The
minor may establish his/her residence when both parents are deceased and a legal guardian has not been appointed.
7. The residence of an unmarried minor, who has a parent The residence of an unmarried minor, who has a parent pointment of a legal guardian, or by relinquishment of a the self-supporting exception.
Exceptions to the determination of residency as set forth above may be applied to certain factual situations. If students would
otherwise be classified as nonresidents, but fit within one of the following exceptions, they may be granted resident classification obtain such classification.
8. Minors who remain in California after their parents have moved from the state, as long as the parents had been
residents of California prior to the resident classification residents of California prior to the resident classification
date.
9. Minors who have been self-supporting and in California Minors who have been self-supporting and in California
for one year preceding the day before the term, will be
10. Students who have not been adults for more than one year prior to the resident determination date, may add their pre-
18 -years-of-age residence to their post-18-years-of-age 18 -years-of-age residence to their post-18-yea
residence to obtain the durational requirements.
11. A child or a spouse of a member of the armed forces staA person who is a member of the armed forces not assigned to California, for purposes of education, may be entitled to resident classification for a period of one year. During that year, the person must establish permanent California tuition for any subsequent enrollment.
12. Adult aliens, present for one year and one day, will be given resident classification. Minor aliens may use parents' durational presence to satisfy the one year and one day require ment.
Aliens who hold the following classification are to be able to applied when evaluating any United States citizen:
a. Career Diplomat Visa
b. Fiance' Visa
13. A student hold

A student holding a valid credential authorizing service in a public school and employed in a certificated position classification.
7. A student who is an apprentice within the meaning of Sec
tion 3077 of the Labor Code, is entitled to resident classi tion 3077
fication.
8. A student who is a full-time employee of a California institution of public higher education, or whose parent or spous
is a full-time employee, may be granted resident classif is a full-time employee, may be granted resident
cation at the option of the institution of enrollment.
9. A student may be classified as a district resident if he/she lives with a parent who earns a livelihood primarily by per forming agricultural labor for hire in California and other
states and the parent has performed such labor in this state states and the parent has performed such labor in this state
for at least two months per year in each of the two pre for at least two months per year in each of the two pre-
ceding years; the parent lives within the district which ceaing years; the parent lives within the district which
maintains the community college attended by the student; mainains the community college attended by the student, his/her state or federal income tax returns, if he/she has
sufficient income to have a personal income tax liability.
10. A student may be classified as a district resident if he/she or hire in California and other states, and he/she has pe ormed such labor in this state for at least two months per year in each of the two preceding years.
No one factor is decisive; however, the institution may look for
certain objective manifestations of ertain objective manifestations of subjective intent on the part been maintained in spite of an absence from the state.
Examples of evidence that aid the college admissions officer in identifying that intent, but which are not individually decisive, license, a current utility bill, a receipt for registration to vote, a current lease, rental agreement, or rent receipt showing the stu-
dent's name and address and place of residence, a library card ast year's state and federal income tax information, a curren charge account or credit, or a checkbook.
The burden is on the student to demonstrate clearly both physical presence in California and intent to establish California residence.
A student who does not answer all of the questions on the Residence Questionnaire or on the Supplemental Residence Questionnaire, if one is used may be classified as a nonresident.

## STUDY LIST LIMITATIONS

A regular full-time program is 12 to 18 units. An average of 15 to
16 units must be taken to graduate in two years or four semesters. The maximum load allowed for studets is 18 units, including a activity course in physical education. Exceptions to this rule wil
be made by special permission of the adminitration (throush the petition process) when there is clear evidence of successful scholastic performance.

A student who is currently enrolled in another school or colleg
including correspondence school or independent study) mus eport this enrollment to the Registration Office. The total numbe of units carried during a semester for all college work may no exceed the 18 unit limit.

## SHORT-TERM CLASSES

Enrollment procedures for short-term classes are the same
as for regular classes. However, listed below are items which as for regular classes. However, listed below are item

1. Students may enroll in short-term classes up to one-fifth of the way through the class.
2. The last day to drop a short-term class with a " $W$ " grade is
3. Fees may be refunded up to one-fifth of the way through
the clas
4. Units and grades for the student will be recognized for the semester in which the class ends. Thus, if tene csing the grin semester, the units and grades will be recorded for the spring semester.

CHANGES IN CLASS SCHEDULES
When registering, it is expected that a student's registration dents are expected, at the time they file their registration, to make no further change. If a change must be made, students may add classes within a designated period at the beginning of each semes. er. Changes will be made by obtaining an add card and approv

SCHOLARSHIP GRADING SYSTEM
Grades are based upon the quality of work done, that is, upon actual accomplishment in courses offered for credit. Grade showing the standing of students are issued at the end of each

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

1. GRADES

A Superior
B Better Than Average
C Average
D Below Average
F Failing
1 Incomplete
An incomplete contract may be negotiated for UNFIN ISHED WORK, OTHERWISE PASSING indicating that (because of medical or other sufficient reason) an ination, or experiment is missing.
An incomplete (I) grade, which is not made up by the end of the sixth week of the next regular semester, shall be
converted to a letter grade. The letter grade shall be converted to a letter grade. The letter
used in computing grade point average
2. CREDIT GRADE

Certain courses designated by the appropriate divisions may be taken for a Cr grade. Students must declare their inten tions to the instructor by the sixth week of 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 in the student's major field at division or department.
d. Students applying for Cr must adhere to the same class grade.
e. A maximum of 16 units taken on a credit basis may be
applied toward a degree.
f. The Cr grade will satisfy completion of prerequisite for quence lass.
3. WITHDRAWAL GRADES

W-Withdrawal
A student may withdraw from any course or from the college with a " $W$ " grade by the end of the 14th week of the semester by filing a drop card in the Registration Office. After the 14th week, a student may withdraw from any course, or from the college, but a letter grade must be
assigned.

Any instructor may withdraw a student during the first
fourteen weeks for excessive absences or for disciplinary reasons.
Grades at the time of withdrawal under either circumstances will be assigned in accordance with the following schedule:

$$
\begin{array}{lr}
\text { Weeks of Semester } & \text { Grade } \\
1 \text { through 14 } \\
15 \text { through } 18 & \text { other than a W }
\end{array}
$$

All withdrawals are official after being processed by the Registrar's Office. Instructors may file a drop card with or
without the student's signature through the 14th week of the semester and it will be processed. Beginning with the second class meeting, through the 14th week of the semester, students will also have the opportunity to file a drop card and
it will be processed. A drop card filed by a sudent will be it will be processed. A drop card filed by a student will be valid with or without the instructor's signature. If the instruc
tor's signature does not appear, the instructor will be notified by the Registrar's Office.
The " $W$ " will normally be given to the student during the lst through the 14th week of the semester. The student shall be given a letter grade other than a " $W$ " after the 14th week.
Students will be allowed to withdraw from a class or classes in extenuating circumstances after the last day of
the 14th week (or 75 percent of the term, whichever is less) upon petition of the student or his/her representative after consultation with the instructor(s).
Extenuating circumstances are verified cases which are clearly beyond the control of the student, i.e., documented cases of serious accident, serious illness, or transfer of
student by military order.
student by military order.
4. PROFICIENCY ENROLLMENT

Once a student has completed a proficiency in a subject area with a satisfactory grade, he/she may not take a lowe proficiency level in that subject area. For example: A student cannot enroll in English 2B after having successfully com pleted English 1A. (This does not apply to vocational re
5. REPEATED CLASSES
5. REPEATED CLASSES
Procedure for Repeated Classes:
a. A student wishing to repeat a class in which a grade o REPEATED CLASSCARD. This card must be returne to the Registrar's Office prior to the completion of the epeated class.

The Registrar's Office will process Repeated Class card grade points of the original class will not be used in com puting total units and grade point averages.
b. Under special circumstances, a student may repeat a course for which a grade of $C$ or better has been recor ed. Repetition of these courses is permitted through
the Student Petition process. Grades awarded for courses repeated under this. provision shall not be counted in calculating a student grade point average.
6. GRADE POINTS

Grade points, per semester unit, are assigned as follows:
A-4 grade points per unit
$\stackrel{\text { B-3 grade points per unit }}{\text { C-2 }}$
$\mathrm{D}-1$ grade point per unit
$\mathrm{F}-0$ grade points per unit
units not charged against the student
NC-0 grade points per unit;
$\mathrm{I}-0$ unrade poingsed against the student
$\mathrm{I}-0$ grade points per unit;
$\mathrm{W}-0$ units not charged against the studen
units not charged against the student
The grade point average is computed by dividing total grade points earned by total units attempted less Cr units otai 28 and the total units attempted less Cr units equals 14 ,
CREDIT BY EXAMINATION
An enrolled student may petition to take an examination hieu of course work between the sixth and fourteenth used toward graduation through this process. No mor than 15 units per semester will be authorized. The fee wil be $\$ 20.00$ per unit plus $\$ 10.00$ for administrative costs fo each examination administered. The credit by examinatio
adVANCED PLACEMENT . NURSING
Students with previous nursing education and/or work experience may be eligible for advanced placement in the nursing curriculum. Credit may be granted for previous
general education courses taken within five years. Genera education courses taken longer than five years ago will be evaluated on an individual basis. Evaluation of all previous by the nursing faculty. Details are available in the nursing by the
office.
9. MILITARY CREDIT

A Guide to the Evaluation of Educational Experiences in the Armed Services, American Council on Educa tion, is used to evaluate military school credit.
a. Presentation of the DD214 (minimum of 180 days activ may allow the veteran 4 units of credit for basic trainin in the military service of the United States of America (2 units for physical education and 2 units for health
b. Additional military credit will be considered by petition and presentation of proper documentation.
c. Total number of units of military credit is not to ex ceed 16.
10. CREDIT FOR UPPER DIUISION COURSE WORK Upper division credit may not be applied toward an
Associate Degree. The only exception is the credit received for an upper division course which is also offered as a lower division course.
11. ACADEMIC RENEWAL

If a student returns to Imperial Valley College after five any given semester's work. If any part of a semester's work is to be excluded, the entire semester's work must be ex luded with respect to grades, units, and course requir Once a semester has been excluded, it may not be reinstated.

## SEMESTER GRADE REPORTS

An end-of-the-semester grade report will be issued to the student by the Registration Office.

## STUDENT CONDUCT

It is assumed that the entry of a student into Imperial Valley College constitutes the student's acceptance of the Standard The Standards may be found in the Handbook for Faculty Advi sors and Student Leaders, which is available in the Office of Stu

ACADE
ACADEMIC PROBATION
Academic Probation is a system of monitoring student progress order to identify students who are experiencing difficulty bjective, and providing special assistance to students in reasses ing their educational objectives and guiding them to accomplish hese goals.
Students who are placed on probation will be identified as early lerred to the Counseling Center.
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 o Scholastic Probation. A student will remain on Scholastic Proba cholastic Probation.A student will remain on Scholastic Pre

Lack-of-Progress Probation
At the end of each semester, any student who has accumulated recorded enrollment in 12 or more units may not receive more nd 50 percent of those units in nonacademic grades ( $\mathrm{W}, \mathrm{NC}$ placed on Lack-of-Progress Probation until the com
nd leted units are 50 percent or more of the student's recorded enrollment.

## PROVISIONAL STATUS

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

1. Grade point average in the last three years of high school was less than 2.0 (grade C on a five-point scale with zero
for an F grade) excluding only physical education and milifor an F grade
tary science.
2. Student is not a hieh school graduate

Students on provisional status shall develop, with a counselor course of study commensurate with their ability. They are required to hold periodic conferences with a counselor and their program may be regulated by a counselor according to their apt fudes and achievement.
Provisional status is removed when students have successfully of work.
PETITION AND HEARING PROCESSES
Formerly and currently enrolled IVC students are entitled to seek and receive responses to any questions related to their educational programs in accordance with the Imperial Com Petition Process
The petition process is used to request exceptions to the rule and regulations in order to meet the student's special needs or circumstances.

## Petition Procedure

The student will use a petition form (available in the Registration Rffice and Counseling Center) and submit his/her request to the
Registrar who will review the request and provide a resolution. Registrar who will review the request and provide a resolution,
If the student is not satisfied with the resolution, a request may be made to the Registrar for a hearing before the appropriate com mittee.

## Hearing Process

There are three established areas which may require hearing rocedures for students and campus organizations seekin
.

1. Standards of Student Conduct
2. Access to Student Records and Challenge Procedure Non-Discrimination

## Hearing Procedure

Students and campus organizations are requested to summar ize their concerns or issues in writing and submit them to the Registrar
cedures.

ATTENDANCE AND AUTOMATIC WITHDRAWAL A student who fails to attend the first meeting of a class will be dropped by the instructor immediately following that class same as that of any other student who desires to add a class.
Regular attendance in all classes is expected of all students nrolled. Instructors are expected to take a student's attendance record into account in computing grades. A student may be ex-
cluded from further attendance in a clas during any semester when absences after the close of registration have exceeeded the number of class hours which the class meets per week. Further an instructor may drop any student judged to be a disturbing ement in the class.
A student who is tardy three times may be considered as having of the college at officially apps attributed to the representation attendance upon field trips will not be counted as absences.

## VOLUNTARY WITHDRAWAL

A student who is required to withdraw from college because of extenuating circumstances must contact the Registration Office for the procedures to be followed. (See "Withdrawal
grades.")

## ACADEMIC DISMISSAL

Academic Dismissal is a system of forced interruption in attendAce at Imperial Valley Collegery progress in achieving academic programs within the limit of available resources of the college. Students
dismissal:

Scholastic Dismissal
Scholastic Dismissal occurs at the end of the Spring semester
when a student has previously been placed on Scholastic Prowhen a student has previously been placed on Scholastic Pro bation, and has completed 30 or more units with a grade point
average of 1.75 or less. The dismissed student will not be allowed to enroll during the next semester or the current summer session except by special approval upon peitition to the Admission,

Lack-of-Progress Dismissal
Lack-of-Progress Dismissal occurs at the end of the Spring semester when a student has previously been placed on Lack-of. Progress Probation, and has accumulated a recorded enrollment of 30 or more units, and more than 50 percent of those units are nonacademic grades (W, NC). The dismissed student will not be
ailowed to enroll during the next semester or current summer session (except by special approval upon petition to the Admission, Registration and Petitions Committee).

## ELIGIBILITY AND CERTIFICATION OF <br> EIERAN ENROLLMENT

Imperial Valley College will certify students for Veteran Benefits , Lack-ot-Progress Dismissal status. Students who have previously been placed on Scholastic Proba(GPA) of 1.75 or less and are eligible for certification of Veteran Benefits will be dismissed at the end of each semester as a veteran student (lose veteran certification) as required under Veterans
Students who have previously been placed on Lack-of.Progress more units, and more than 50 percent of those units are non more units, grades ( $\mathrm{W}, \mathrm{NC}$ ), will be dismissed at the end of each semester as a veteran student (lose veteran certification) as required under Veterans Administration approval criteria regu

## PHYSICAL EDUCATION

Students under 21 years of age and registered for more than Students under 21 years of age and registered for more than a physical education activity class each semester for four semes
ers (a maximum of four P.E. activity classes is required)
Exemptions may be granted for:

1. Physical disability (medical excuse required)

Age, twenty-one or over
3. Postgraduate standing Completion of basic or recruit training and 180 days active
service in any of the Armed Forces of the United States Students in physical education activity classes are required to dress appropriately. Appropriate dress for activity classes in cludes tennis shoes, shorts, sweat pants or jogging apparel, and ee shirts or a similar top for vigorous activity.
Students who fail to enroll or are dropped by their instructor fom a physical educaich allut lass wilbe required to reduce their class load to eight units or less.

## CHANGES IN THE CATALOG

Any regulation adopted by the administration of Imperial Valley college shall have the same force as a printed regulation in the ment, 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 me of initial enrollment provided a contin

## 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 com. pleted. Responsibility for filing a petition for graduation rests with
the student. This petition is to be filed with the Registrar not later then the end of the 4th week of each semester and the 1st week of summer session. A $\$ 10.00$ nonrefundable fee must accompany the petition for graduation.
Additional Associate Degree(s) or Major(s) may be earned if the student completes those required courses and units beyond the prior degree(s) or major(s). Courses used in one major may
be utilized in other majors as they apply. If a student breaks con. be utilized in other majors as they apply. If a student breaks con-
tinuous enrollment, he/she will also be responsible for additional graduation requirements or required courses in the major as designated by the current catalog in effec
The requirements for graduation represent State and institu-
tional minimum general requirements as well as the firm committional minimum general requirements as well as the firm commit-
ment 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 their outlook, and contribute to the realization of the well-balanced whole person
I. ACQUISITION OF MAJOR CONSISTING OF DESIGNATED) IN A SPECIFIED FIELD OF STUDY Students may satisfy the major requirement in the following
fields of study. Individual courses of study for each major are
listed after the Courses of Instruction. listed after the Courses of Instruction.
A.S.-Administration of Justice
A.S.-Agricultural Business Mar
A.S.-Agricultural Business Management/Transter
A.S.-Agricultural Engineering Techn
A.S.-Agricultural Science/Transfer
A.S.-Alcohol and Drus Studies
A.A. - Anthropology
A.A.-Art
A.S.-Automotive Body Repair
A.S.-Automotive Body Repair and Painting
A.S.-Banking-Administrative Services
A.S.-Banking-Credit Admistration
A.S.-Banking-Credit Administration
A.S.-Banking-Secretarial
A.S. - Banking-General Operations
A.A. - Behavioral Science
A.A. - Behavioral Science
A.S.- Bilingual-Bicultural Studies
$\stackrel{\text { A.S.-Bookkeeping }}{ }$
A.A.,A.S.-Business Transfer
A.S.--Carpentry
A.A.-Cinematography
A.A.A.S.-Data Processin
A.A.,A.S. - Early Childhood Education
A.S.-Engineering
A.A.-English
A.S.-Fire Science
A.A.-Foreign Languag
A.A.,A.S. - General Business
A.A.,A.S.-General Major
A.S.-General Office Technician
A.A.-Governmental Management Public Service Admin
A.S.-Graphic Arts
A.A.-Human Relations
A.A.A.S. - Individual Interdisciplinary
A.S.-Journalism
A.A.-Legal Assistan
A.A.-Liberal Studies (Elementary Teacher Preparation)
A.A.,A.S.-Life Science
A.A.,A.S.-Marketing-Sales Technology
A.A.,A.S. - Mathematics
A.A.-Music
A.S.-Nursing (Associate Degree.Registered)
A.S.-Nursing (Licensed Vocational)
A.A.-Office Administrative Servic
Word Processing Operator
A.A.- Patient Services Administration
A.S.-Physical Education
A.A.,A.S--Physical Science
A.A.,A.S.-Psychology
A.S.-Recreation
A.A. - Rehabilitation Technician for the Physically Limited
A.A.,A.S.-Social Science
A.S.-Water Treatment Technology
A.S.-Welding Technology
II. UNITS, GRADE POINT AVERAGE, RESIDENCE
A. Sixty (60) 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 (45) units in residence, or completion of at le
units at Imperial Valley College.
In-residence units refer to those units taken at Imperial In-residence units reter to those units taken at Imperia
Valley College in which a student is enrolled, attend class sessions of one semester's duration, and receives a passing grade. Credit by examination, extension qualify a student for in-residence units.
Units toward an Associate in Arts or Associate in cience degree at Imperial Valley College must be from completed, was accredited by one of the regiona COPA COPA edition.
D. Settlement of all financial obligations to the college
III. INSTITUTIONAL REQUIREMENTS
A. American Institutions (select one sequence)

1. Hist 17A \& Hist 17B
2. Poly Sci 1 \& Poly Sci
3. Hist 17A \& Poly Sci 1
4. Hist 17 B \& Poly Sci 2
5. Hist 17B \&
B. Health Education: HE 1 or HE 3 (Veterans only)
C. Physical Education, if required
IV. STATE COMPETENCY REQUIREMENTS
A. Math Competency: Satisfactory score on Placement Test or Mah 1
B. Reading Competency: Satisfactory score on Placement
Test or Eng 12B
V. GENERAL EDUCATION

A minimum of eighteen (18) semester units, including a min imum of three (3) semester units in each of the first three areas or divisions $(a, b, c)$ and the same minimum in each
part of $d$. The remainder of the unit requirement ( 3 units) is part of $d$. The remainder of the unit requirement ( 3 units) is
also to be selected from among these four areas or divisions ( $\mathrm{a}, \mathrm{b}, \mathrm{c}$, and d) as determined by student's option.
A general education course may be used to satisfy both a eneral education requirement and a major requirement.
a. Natural Science (3 units required)

Ag 5 Man and His Environment
Ag 14 Entomo
Ag 40 Soils
Anat 6 Human Anatomy \& Physiology for Health
Occupations
Anat 8 Human
Anat 10 Human Anatomy \& Physiology Anthro 1 Physical Anthropology Astron 21 Elementary Astronomy Bio 3 Principles of Biological Science
Bio 21 General Microbiology Bio 21 General Microbiology
Chem 1A General Inorganic Chemistry
Chem 2A Introduction to Chemistry Chem 2A Introduction to Chemistry Env Sci 5 (also Ag 5) Man \& His Environment Geol 1 A Physical Geology
Geol 11 General Geology: An Introduction to Geology Geol 12 Introduction to Historical Geology Geol 14 General Paleontology, Dinosaurs, Sabretooth

Nat Sci 51 Survey of the Earth Sciences
Phy Sci 25 Introduction to Physical Science
Phys 2A General Physics
Phys 4A Principles of Physic
Physio 1 Human Physiology
Zool 1A General Zoology
b. Behavioral \& Social Science ( 3 units required) Ag 30 Food \& Fiber in a Changing World ADS 50 Human Services in a Changing Society Anthro 2 Cultural Anthropology
Anthro 3A Introduction to Archaeological Site Anthro 3 A Introduction to Archaeological Site
Surveying

Anthro 3B Introduction to
Anthro 4 California Indian Anthro 6 Indians of North America Anthro 8 Indians of the Southwest ECE 21 Early Childhood Socialization: Children Family and Community
ECE 22 Advanced Developmental Psychology and Observation
ECE 27 Understa
ECE 27 Understanding Exceptional Students
ECE 34 Infant/Toddler Developm
Econ 2 Principles of Economics
Geog 2 Cultural Geography
Geog 3 Economic Geography
Geog 3 Economic Geography
Hist 10 History of Modern Russia
Hist 30 Mexican and the American Southwest
Hist 40 Civilization of Spain and Portugal
Hist 41 Civilization of Spanish America and Brazil
HR 9 Introduction to Counseling
HR 9 Introduction to Counseling
PL 1 Understanding Exceptional S
Poly Sci 3 Comparative Politics
Poly Sci 14 Introduction to International Relations
Psych 1A Introduction to Psychology
Psych 1B Learning and Perception
Psych 2 Introduction to Physiological Psycholog
Psych 3 Psychology of Adjustment
Psych 4 Psychology of Human Sexuality
Psych 5 Psychology of Effective Behavior
Psych 5 Psychology of Effective Behavior
Psych 9 Introduction to Counseling
Psych 14 Abnormal Psychology
Psych 17 Social Psychology
Psych 20 Developmental Psychology of Children
Psych 21 Early Childhood Socialization: Children,
Family and Community
Family and Community
Psych 22 Advanced Developmental Psychology and
Observation
Psych 27 Understanding Exceptional Students
Psych 30 Psychology of Adolescence
Psych 35 Develomental sychology: Conception to Death
Sociol 1 Principles of
Psych 35 Developmental Psychology: Co
Sociol 1 Principles of Sociology
Sociol 2 Contemporary Social Problems Sociol 2 Contemporary Social Problem
Sociol 17 Social Psychology
Sociol 33 Marriage and the Family
Sociol 33 Marriage and the Family
Sociol 50 Human Services in a Changing Society
Span 40 Civilization of Spain \& Portugal
Span 40 Civilization of Spain \& Portugal
Span 41 Civilization of Spanish America \& Brazil
Span 41 Civilization of Spanish America \& Brazil
Span 43 History and Culture of the Philippines
TA 3 Psychology of Adjustment
c. Humanities ( 3 units required)

Anthro 14 Primitive Art
Art $3 \mathrm{~A} / 3 \mathrm{~B}$ History \& Appreciation of Art
Art 4 History $\&$ Appreciation of Modern Art
*Art 30A Introduction to Art
Drm Art 5A/5B History of World Drama
Eng 41 Survey of American Literature
Eng 42A/42B Survey of World Literature
Eng $43 A / 43 B$ Survey of English Literature Eng 43A/43B Survey of English Literature
Eng 44AD Literature for Apreciation Eng 44AD Literature for Appreci
Eng 45AD Studies in Literature

+ Eng 46A/46B The Mexican American in Literature Eng 47 Introduction to the Bible as Literature Eng 54 Introduction to Film History and Criticism
Fr 1 Elementary French
***Fr 1A/1B Elementary French
${ }_{* * * F r} 2 \mathrm{Al} / 2 \mathrm{~B}$ Elementary French Fr 3 Intermediate French
Fr 4 Intermediate French Reading and Writing
Fr 10 Intermediate Conversational I rench
Fr 11 Intermediate Conversational French
Fr Fr $20 \mathrm{~A} / 20 \mathrm{~B}$ French Drama - Reading and Performance
Fr
Fr 40 Introduction to French Civilization and Culture
Fr 41 Introduction to French Civilization and Culture
Beyond France
Ger 1 Elementary German
Ger 2 Elementary German
Ger 11 Conversational German
Gist 4A/4B History of Western Civilization
Hum 1A/1B Man and the Arts
Hum 25 The Humanities
Hum 26 The Humanities
Hum 40 Introduction to French Civilization and
Culture
Hum 41 Introduction to French Civilization and Hum 41 Introduction to French Civilization and
Culture Beyond France Culture Beyond France
Hum 54 Introduction to Film History and Criticism
${ }_{*}^{*}$ Ital $1 \mathrm{~A} / 1 \mathrm{~B}$ Elementary Italian
Jrn 5 Introduction to Photography
MPP 54 Introduction to Film History and Criticism
${ }^{*}$ Mus 17AD Chamber Singers
Mus 20A/20B History \& Literature of Music
Mus 30 Introduction to Music Literature and Listening
Mus 31 Introduction to Twentieth-Century Music
Phil $11 / 1$ Introduction to Philosophy Phil 11 Ethics
${ }^{\text {Phil }} 25$ Retigions of the Modern World
Ph 5 Introduction to Photography
PL 10 Beginning Communication with the Deaf
PL 11 Advanced Communication with the Deaf
Span 1 Elementary Spanish
**Span $1 \mathrm{Al} / \mathrm{B}$ Elementary Spanis
**Span 1A/1B Elementary Spanis
${ }_{* *}^{\text {Span }} 2$ Elementary Spanish
Span 3 Intermediate Spanish
Span 4 Intermediate Spanish
**Span 5A/5B Beginning Conversational Spanish and Culture
Span 10 Intermediate Conversational Spanish
Span 11 Advanced Conversational Spanish
Span 20A/20B Bilingual Spanish
Span 21 Intermediate Bilingual Spanish
Span 22 Advanced Bilingual Spani
Span 24 Introduction to Spanish Literature
Span 25 Introduction to Spanish American Literature
+ Span $28 \mathrm{~A} / 28 \mathrm{~B}$ The Mexican American in
+ Span 28A/28B The Mexican American in Literature ${ }^{*}+$ Span pan $54 \mathrm{AA} / 54 \mathrm{~B}$ Beginning Conversational Spanish for Careers
d. Language and Rationality

1. English Composition (3 units required) Eng 1A Reading \& Composition

Eng 2B Basic English Composition
2. Communication \& Analytical Thinking (3 units required
Bus 15 Introductory Calculus with Applications mentary Statistics Bus 52 Production to Information Systems Bus 55 Programming in Cobol 1
Bus 57 Programming in Fortran
Eng 11 Reading IV: Analytical \& Critical Reading
Eng 50 Advanced Composition
Eng 51 The Communication Process
Eng 52 Introduction to Linguistics
Eng 53 AB Creative Writing
Eng 55 Technical \& Report Writin
Jrn 1 Introduction to Journalism
Jrn 3 Mass Communication
Math A Intermediate Algebr
Math 2 Advanced Algebra \& Trigonometry
Math 10A Mathematics for Elementary School Teachers
Math 12 Elementary Statistics
Math 47 Programming Calculus with Applications Math 57 Programming in Fartran
Math 58 Computer Programming in Pascal Phil 10 Logic
lementary Statistics
Sp 11 Oral Interpretation- Readers Theatre
+Ethnic Studies Course
${ }^{*}{ }^{*}$ Unit Course
***2.5 Unit Course
CREDIT FOR CORRESPONDENCE AND EXTENSION COURSES
A student may petition to have a maximum of six units or credit counted toward graduation for correspondence or extension

1. Courses must have been taken from a recognized accredited college or university having a correspondence or exten
2. Courses must be designated as recommended for lower division credit by the college or university It is the responsibility of the student to submit evidence estab-
lishing the above standards

## TRANSFER REQUIREMENTS

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

1. The completion of the specified requirements for junior
2. standing in the proposed senior college or university; and,

The completion of the lower-division prerequisites for upper-division majors and minors.
These vary according to the requirements of the institution of higher education in which the student expects to enroll. A
STUDENT EXPECTING TO TRANSFER TO SUCH AN STUDENT EXPECTING TO TRANSFER TO SUCH AN

THE INSTITUTION REGARDING SPECIFIC REQUIRE MENTS and plan their Imperial Valley College work so that these
requirements will be met. Additional information is available in the Counseling Center.
Transferable courses to the California State University system and/or the University of California system are indicated by (CSU, UC) following the catalog description. Students are advised to contact their counselor to determine which specific courses are
applicable to their educational objective. le to their educational objective
A student planning to transfer to the California State University
system can, at their request, have the general education require. system can, at their request, have the general education require-
ments certified by Imperial Valley College. In order to meet this certification, a student must complete thirty-nine (39) units of selected general education in one of five areas: English communication and critical thinking; physical universe and its life forms; and economic institutions; and understanding life and self. development. With the certification of general education completed by Imperial Valley College, a student can transfer to a California State University assured that no further general edu ation will be required in the lower division area.
The Specific General Education Pattern for the California State University system follows
A. ENGLISH COMMUNICATION \& CRITICAL THINKING 9 units)

1. Oral English (1 course required)
2. Written English (1 course required)
. Critical Thinking (1 course
$\begin{array}{lll}\text { Critical } & \text { Thinking } & \text { (1 course } \\ \text { Enequired) } \\ \text { Eng 11 } & \text { (3) } & \text { Phil } 10 \\ \text { Eng } 50 & \text { (3) } & \text { Speech } 10 \\ \text { Jn 3 } & \text { (3) } & \end{array}$
B. PHYSICAL UNIVERSE AND ITSLIFE FORMS ( 9 units with at least one lab course marked with an (L)
Ag Scien (L)
Anat 8 (L)
Anat $8(\mathrm{~L})$
Anat 10 (L)
Anthro 1
Bio 3 (L)
3. Physical Science correction

| Ag/Env Sci 5 | (3) | Geol 11 | (3) |
| :---: | :---: | :---: | :---: |
| Ag 40 | (3) | Geol 12 | (3) |
| Astron 21 | (3) | Geol 12L | (1) |
| Chem 1A/1B (L) | (5.5) | Geol 13 | (3) |
| Chem 2A (L) | (4) | Geol 14 | (3) |
| Chem 5 (L) | (4) | Phys 2A/2B (L) | (4-4) |
| Chem 12 (L) | (5) | Phys 4A/4B/4C | (L) (4.4-4) |
| Geog 1 | (3) | Phys Sci 25 (L) | (4) |
| Geol 1A (L) | (4) | - | ( |

3. Math ( 1 course required) $\begin{array}{lr}\text { Math } 2 & \text { (5) } \\ \text { Math 3A/3B } & \text { Math } 12 / \text { Bus 26/ } \\ \text { Psych 13 }\end{array}$ Math $10 \mathrm{~A} / 10 \mathrm{~B}$
(3.3)
C. ARTS, LITERATURE, PHILOSOPHY, AND FOREIGN

| Art 3A/3B | (3.3) | Hum 1A/1B |  |
| :---: | :---: | :---: | :---: |
| Art 4 | (3) | Hum 25 | (3) |
| Art 30A/30B | (2-2) | Hum 26 |  |
| Drm Art 5A/5B | (3-3) | Ital 1A/1B | (2-2) |
| Eng 1B | (3) | Mus 20A/20B | (3) |
| Eng 41 | (3) | Mus 30 | (3) |
| Eng 42A/42B | (3-3) | Mus 31 | (3) |
| Eng 43A/43B | (3-3) | Phil 1A/1B | (3) |


| Eng 45AD | (3) | Phil 11 | (3) |
| :---: | :---: | :---: | :---: |
| Eng 46AB/Span | 8 AB (3-3) | Phil 25 | (3) |
| Eng 47 | (3) | Span 1 | (5) |
| Eng/Hum/MPP | 54 (3) | Span 1A/1B | (2.5-2.5) |
| Fr 1 | (5) | Span 2 | (5) |
| Fr 1A/1B | (2.5-2.5) | Span 2A/2B | (2.5-2.5) |
| Fr 2 | (5) | Span 3 | (5) |
| Fr 2A/2B | (2.5-2.5) | Span 4 | (5) |
| Fr 3 | (4) | Span 10 | (3) |
| Fr 4 | (3) | Span 11 | (3) |
| Fr 10 | (3) | Span 20A/20B | (5-5) |
| Fr 11 | (3) | Span 21 | (5) |
| Fr 20A/20B | (2-2) | Span 22 | (5) |
| Fr 40/Hum 40 | (3) | Span 23 | (3) |
| Fr 41/Hum 41 | (3) | Span 24 | (3) |
| Ger 1 | (4) | Span 25 | (3) |
| Ger 1A/1B | (2-2) | Span 40/Hist 40 | (3) |
| Ger 2 | (4) | Span 41/Hist 41 | (3) |
| Ger 10 | (3) | Span 42 | (3) |
| Ger 11 | (3) | Span 43 | (3) |

D. SOCIAL, POLITICAL, AND ECONOMIC INSTITUTIONS (9 units)

1. American Institutions (6 units required - choose a
sequence below)
a. Hist $17 \mathrm{~A} / 17 \mathrm{~B}$
a. Poly Sci 1-2 $(3-3)$
$(3 .-3)$
$(3-3)$
$(3-3)$
2. Select one course from a subject area not completed
3. Select one course from a subject
in Part 1 , Section $D$ shown above

Ag 30
Anthro 2
$\begin{array}{ll}\text { (3) } & \text { Hist } 10 \\ \text { (3) } & \text { Hist } 30\end{array}$
Anthro 4
Anthro 6
Anthro 8
Anthro 8
Econ 1
Econ 2
Col
Geog 2
$\begin{array}{ll}\text { (3) } & \text { Hist 30 } \\ \text { (3) } & \text { Poly Sci 3 } \\ \text { (3) } & \text { Poly Si 14 } \\ \text { (3) } & \text { Psych 1A/1B } \\ \text { (3) } & \text { Ssych 3 } \\ \text { (3) } & \text { Soc 1 } \\ \text { (3) } & \text { Soc 2 } \\ \text { (3) } & \text { Soc 10 }\end{array}$
E. UNDERSTANDING LIFE AND SELF-DEVELOPMENT 3 units)
$\begin{array}{llll}\text { HE 1 } & \text { (3) } & \text { Psych 16 } & \text { (3) } \\ \text { HR 8/Psych 8 } & \text { (3) } & \text { Psych 35 } & \text { (3) } \\ \text { Psych 4 } & \text { (3) } & \text { Soc 33 } & \text { (3) }\end{array}$ Transfer Credit
In state universities, and at the University of California, a maxi mum of 70 semester units earned in a community college may be
applied toward the Bachelor's degree, with the exception that no upper-division credit may be allowed for courses taken in a com. munity college and no credit may be allowed for professional courses in education taken in a community college. Many othe

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

In developing a major program, each student should plan on completing graduation requirements for the Associate in Arts or
Associate in Science Degree. It is recommended that students should plan a broad educational background including general education courses.
It is most important that students consult with a counselor during their first semester in preparing programs to determine the appropriate sequence of courses. Further, it should be noted rests with the student.

CERTIFICATES
Occupational Certificates are awarded to convey evidence that well-defined levels of proficiency have been attained in
designated occupational fields. Certificate programs are available designated occupational fields. Certificate programs are available
in some of the occupational areas for which the college offers the Associate Degree. To qualify for an Occupational Certificate, a student must:

1. Complete all courses listed for a particular certificate.
to complete the certificate.
2. File a certificate petition with the Registrar not later than the end of the fourth week of each semester and the first week of the summer session
Certificates are offered in the following areas:

## Administration of Justice Agricultural Engineering <br> Agricultural Engineering Technology Agriculture Business Management <br> Alcohol and Drug Studies Field Arche

Field Archaeology
Automotive Body
Repair and Painting
Automotive Body Repair
Automotive Technology

## Automotive Bakking Adminisis

Credit Administration Certificate in Banking General Certificate-Bank Service
Secretary Certificate-Bank Service
Business
Bookkeeper Technician Clerre Typpist
Office Technician: (Receptionist, File Clerk, Small Business Ofire Technician: (Recers)
Recceords)/Stenographer
Secretary/Stenograph
Business Supervision
Carpentry
Crop Science
Early Processing
Elic Childhood Education
Electronics
Emergency Medical Technician :
Emergency Medical Technician II
Fire Science
Governmental Management Public Service Administration
Graphic Arts . Mutiti Media, Printing
Health Assistant
Home Health Aide
Home Health Aide
Human Relations
Human Relation
Legal Assistant
Library Technician-Basic
Marketing Sales Technology
Nutrition Management Dietary Manager
Office Administrative Services/Word Processing Operator
Patient Services Administration Specialist
Pharmacy Technician
Pharmacy Technician
Psychiatric Technician
Real Estate
Recreation
Recreation
Rehabilitation Technician for the Physically Limited
Teacher Aide
Vocational Nursing
Waste Water Technology
Water Treatment Technology
Welding
Work Experience.Occupational

## COURSES OF INSTRUCTION

In the following list of courses, the credit value of each course in semester units is indicated by a number in parentheses after the course number.
To make it possible for a greater number of courses to be offered to the students of Imperial Valley, many courses in
specialized fields are offered on alternate years only. The studen should take this into consideration when making long-range program plans.
Course numbers followed by an AB sequence indicate that the course may be taken more than once, covering the same mater als, to gain proficiency in the subject matter. Course numbers tions indicate that new or advanced materials are to be covered.
Course descriptions followed by the notation (CSU, UC) indiCourse descriptions followed by the notation (CSU, UC) ind
cate that the course is transferable to the California State Unive sity system, to the University of California system, or both. A student should contact his/her counselor to determine which
courses are applicable to his/her educational objective.
The prerequisites for any course may be waived by the instruc-
tor and the Vice President for Academic Services.
Unless specifically exempted by statute, every course, course eported for state aid wherever offered and maintined by mperial Community College District, shall be fully open to enroll ment and participation by any person who has been admitted to the college and who meets such prerequisites as may be estab
lished pursuant to Chapter II, Division 2, Part VI, Title 5 of the lished pursuant to Chapter II, Division 2, Part VI, Title 5 of the (Board of Trustees Resolution No. 5682).

## UMMER SESSION

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

## ADMINISTRATION OF JUSTICE

## ADM JUS 21 (3) <br> TO THE ADMINISTRATION

OF Hrs. Lec.
The history and philosophy of administration of justice in America; recapituation of the system; identifying the various sub-systems,
role expectations, and their interrelationships; theories of crime, punishment and rehabilitation; ethics, education and training for professionalism in the system. (CSU, UC)
ADM JUS 22 (3)
POLICE PATROL PROCEDURES
3 Hrs. Lec.
Techniques. of patrol and observation; handling complaints and called-for services; public relations; techniques of field interroga-
tion; officer's notebook procedures; essentials of police report writing; utilization of specialized equipment. (CSU)

CALIFORNIA ARTICULATION NUMBER (CAN)
The California Articulation Number (CAN) identifies some of the transferable, lower division, introductory (preparatory) Courses commonly taught w

The system assures that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN cours n another participating campus. For example: CAN ECON 2 on one campus will be
icipating campus.

The following courses at Imperial Valley College have been designated as CAN courses:

| CAN Course | IVC Course | CAN Course | IVC Course |
| :---: | :---: | :---: | :---: |
| CAN Anth 2 | Anthro 1 | CANHEC 14 | ECE 22 |
| CAN Anth 4 | Anthro 2 | CAN Hist 2 | Hist 4A |
| CAN Art 2 | Art 3A | CAN Hist 4 | Hist 4B |
| CAN Art 4 | Art 3B | CAN Hist 8 | Hist 17A |
| CAN Bus 2 | Bus 1A | CAN Hist 10 | Hist 17B |
| CAN Bus 4 | Bus 18 | CAN Math 18 | Math 3A |
| CAN Bus 8 | Bus 5A | CAN Math 20 | Math 3B |
| CAN Chem 2 | Chem 1A | CAN Math 22 | Math 4 |
| CAN Chem 4 | Chem 1B | CAN Phil 6 | Phil 10 |
| CAN Chem 12 | Chem 5 | CAN Phys 8 | Phys 4A |
| CAN Econ 2 | Econ 1 | Phys Seq A | Phys 2A+2B |
| CAN Econ 4 | Econ 2 | Phys Seq B | Phys $4 \mathrm{~A}+\mathrm{B}+\mathrm{C}$ |
| CAN Engl 8 | Eng 43A | CAN Psych 4 | Psych 1A |
| CAN Engl 10 | Eng 43B | CAN Soc 2 | Sociol 1 |
| CAN Govt 2 | Poly Sci 2 | CAN Soc 4 | Sociol 2 |
| CANHEC 2 | NU2 | CAN Stat 2 | Math 12 |

ADM JUS 23 (1)

## (1)

## Hrs. Lab.

study of the art of self-defense through boxing, wrestling and ching. Includes the art of weight lifting, control of crowds, ally ill persons. Satisfies the district physical education activity equirement for one semester. (Same as PE 44) (CSU)

## ADM JUS 24 (3)

TRAFFIC CONTROL AND VEHICLE CODE
The study of traffic control and vehicle code problems. (CSU)

## ADM JUS 26 (3)

ACCIDENT INVESTIGATION
The study and procedures of traffic accident investigation. (CSU)

ADM JUS 28 (3)
ENFORCEMENT
The objective of this course is to acquire the knowledge and skill necessary for understanding the importance of Wildlife Law Enforcement in perpetuating and managing our fish and wildife
resources. (CSU)
DM JUS 29
ADM JUS 29 (3)
PRELIMINARY INVESTIGATION AND REPORTING
3 Hrs. Lec.
The organization and preparation of written communications and
The organization and preparation of written communications and
reports. Emphasis on practical aspects of report preparation reports. Emphasis on practical aspects of report preparation
required by law enforcement officers in the course of their duties, required by law enforcement officers in the course
including reporting on mock crime scenes. (CSU)

## ADM JUS 30 (3)

## 3 Hrs. Lec.

This course explores the nature of crime, measurement and
research of crime, the extent of crime, major theories of crime research of crime, the extent of crime, major theories of crime causation, criminal typologies, criminal justice system response

## ADM JUS 31 (3) <br> CONCEPTS OF PROBATION AND PAROLE

3 Hrs. Lec.
A survey of the historical development of probation and parole from early court procedures through modern practices with an emphasis on the operation of probation and parole agenices in
California including such topics as probation and parole laws and California including
procedures. (CSU)

## ADM JUS 33 (3)

3 Hrs. Lec.
Prerequisite: Adm Jus 21 or permission of the instructor. Histor Prerequisiste: Adm Jus 21 or permission of the instructor. Histor-
ical development of law and constitutional provisions; definitions;
classifications of crime and their classifications of crime, and their application to the system o administration of justice; legal research, study of case law, me
dology, and concepts of law as a social force. (CSU, UC)
ADM JUS 34 (3)
3 Hrs. Lec
Fundamentals of investigation; techniques of crime scene record ing and search; collection and preservation of physical evidence modus operandi processes; sources of information; int
interrogation; follow-up and case preparation. (CSU)

## ADM JUS 35 (3) <br> F EVIDENCE

Prerequisite: Adm Jus 21. Origin, development, philosophy and constitutional basis of evidence; constitutional and procedura considerations affecting arrest, search and seizure; kinds and
degrees of evidence and rules governing admissibility judicial dec degrees of evidence and rules governing admissibility; judicial de
sions interpreting individual rights and case studies. (CSU)
ADM JUS 36 (3)
JUSTICE SYSTEM
3 Hrs. Lec.
An in. depth study of the role and responsibilities of each segment judicial; corrections. A past, present and future exposure to each sub-system procedure, from initial entry to final disposition, and sub-System procedure, from initial entry to final disposition, and
the relationship each segment maintains with its system member (CSU, UC)

## ADM JUS 37 (3)

3 Hrs. Lec.
Techniques of handling juvenile offenders and victims, prevention and repression of delinquency, diagnosis and referral, organiza ion of community resources, juvenile law and juvenile procedure

ADM JUS 38 (3)
COMM NITY RELATIONS
An in-depth exploration of the roles of the administration of justice practitioners and their agencies. Through interaction and study the student will become aware of the interrelationships and role
expectations among the various agencies and the public. Principal emphasis will be placed upon the professional image of the system of justice administration and the development of positive elationships between members of the system and the public. CSU, UC)

ADM JUS 39 (3)

## 1 Hrs.

Designed to satisfy the curriculum standards of the Commission on Peace Officer Standards and Training as required by Pena
Code Section 832 for peace officers; includes laws of arrest Code Section 832 for peace officers; includes laws of arrest, search and seizure, methods of arrest, discretionary decision
making and where applicable, use of and carrying of firearms making and where applicable, use of and carrying of firearms ificate awarded by the Commission on Peace Officer Standard and Training. A total of 56 hours is required. (CSU)

## ADM JUS 40 ( $1 / 2-6$ )

ADVANCED OFFICERS COURSE
1.33 Hrs. Lec.
rerequisite: Permission of instructor. This course is designed to in law enforcement policy, new concepts of police technology advanced techniques, police-community relations, law enforce ment ethics in maintaining police integrity and such other refresh training as may be necessary. (CSU)

ADM JUS 42 ( $1 / 2$ )
NONLETHAL CHEMICAL AGENTS
Prerequisite: Permission of the instructor. Introduction to non lethal chemical agents - their use and purpose. Required by completion of this course.

## ADM JUS 43 (5)

RESERVE OFFICERS CLASS LEVEL I
5 Hrs. Lec.
rerequisite: Adm Jus 39/Module A/or Instructor. A basic over to be accepted by a law enforcement agency as a Level II reserve officer. Open to all students who are qualified as potential employ ees or reserves.
ADM JUS 44 (4)
OFFICERS CLASS LEVEL I
RESERVE
4 Hrs. Lec.
Prerequisite
rerequisite: Adm Jus 43 or consent of the instructor. A basic classroom training requirements for Level I reserves. Twelve (12) dditional lab hours to be arranged per semester.

ADM JUS 48 (3)
ADVANCED CRIMINAL LAW
3 Hrs. Lec.
Prerequisiste: Adm Jus 33. An in-depth study of the substantive police officer. The scope of the course includes misdemeanor and elony violations of the criminal statutes. (CSU)
ADM JUS 63 (3)
NATIONALITY LAW
3 Hrs. Lec.
Prerequisite: Graduation from an Immigration Officer Basic Training Course. This course will focus on the complicated issue
of law and procedure concerning the deportation of aliens illegally of law and procedure concerning the deportation of aliens illegally
in the United States and criminal prosecution for violations of U.S mmigration laws. The course will also consider in-depth topic including relief from deportation, delivery bonds, deportation als in the immigration field will be stressed throughout the course. (CSU)

AGRICULTURAL ENGINEERING TECHNOLOGY

## AGET 28 (4)

OOWER EQUIPMENT OPERATION AND MAINTENANCE Hrs. Lec. 3 Hrs. Lab.
Selection, operation, adjustment and the maintenance of whee and track type equipment commonly used in agriculture and
ndustry. (CSU UC) industry. (CSU, UC)
AGET 33A (5)
3 Hrs. Lec. 6 Hrs. Lab.
For the student with little or no automotive background. Design, onstruction and mechanical function of automobile engines icluding lubricating, cooling, fuel and electrical systems; clutches; nd an understanding of the basic sciences relevant to such topics Tech 51) (CSU)
AGET 33B (5)
3 Hrs. Lec. 6 Hrs. Lab.
rerequisite: Aget 33A or 2 years of high school auto mechanics. Review and advanced study of the internal combustion engine and nd machines for rebuilding the engine. (Same as Auto Tech 55) (CSU)
AGET 34 (4)
3 Hrs. Lec. 3 Hrs. Lab.
Theory of operation and maintenance of power transmitting differentials, and drivesmissions, cluthes, hydrostatic drives, ifferentials, and drive trains used in both wheel and track type AGET 35 (3)
AGET 35 (3)
FLUID POWER
Hrs. Lec. 2 Hrs. Lab.
(Same as Auto Tech 57) (CSU)
AGET 37 (3)
SMALL GASOLINE ENGINES
2 Hrs. Lec. 2 Hrs. Lab.
(Same as Auto Tech 59) (CSU)

AGET 39 (4)
UNDAMENTALS OF DIESEL POWER
3 Hrs. Lec. 3 Hrs. Lab.
he study of diesel engine theory, design, construction, and repair of heavy diesel power units. (CSU
AGET 50 (1-3)
APPLIED MATHEMATICS
(Same as Auto Tech 50, Math 50, PL 50 and Weld 50
AGET 75 (3)
Hrs. Lec.
(Same as Auto Tech 75, Weld 75)

## AGRICULTURE

Many of the courses in the field of agriculture are offered on alternate vears only. Students should keep this in mind as they plan nate years only. Students should keep this in mind as they plan counselors

## AG 5 (3)

MAN AND HIS ENVIRONMENT
3 Hrs. Lec.
(Same as Env Sci 5) (CSU, UC)
AG 14 (3)
2 Hrs. Lec. 2 Hrs. Lab.
A basic study of insects with emphasis on classification, anatomy and physiology, and ecology. An insect collection is required.

AG 15 (1)
PESTICIDE SAFETY
${ }^{1} \mathrm{Hr}$ Pesticide safety train
Pesticide safety training for employees who handle and use

## AG 20 (3)

3 Hrs. Lec.
A survey of the sources of the world's supply of animal products. The distribution of and factors influencing domestic animals in the United States. The origin, characteristics, and adaptation of the development. Selection, feeding and management of sheep, swine and cattle on California farms. (CSU, UC)

## AG 21 (3)

3 Hrs. Lec
3 Hrs. Lec.
Prerequisite: Ag 20 or permission of the instructor. The basic principles of animal nutrition as they are applied to livestock feeding;
the composition and use of feed stuffs in their relation to feeding of farm animals; ration balancing. Identification and classification of feeds, meth,
of livestock of preparing feeds; relative value for each class of livestock. Digestion and utilization of feeds; feeding standards; economy in feeding; vitamins and minerals and feed sources
(CSU) AG 22 (3)

CTION TO AGRICULTURAL ECONOMICS 3 Hrs. Lec.
Introduction to the economic aspects of agricultural management.

AG 23 (3)
3 Hrs. Lec.
The symptoms, diagnosis and treatment of animal disease
AG 24 (3)
3 Hrs. Lec.
Status of the
horse industry; types and breeds; selection, management and economics of the light horse; their place and use in California and the United States. (CSU)
AG 25 (3)
AGRICULTURAL BUSINESS MANAGEMENT 3 Hrs. Lec.
Changes occurring in agriculture, careers in commercial agricultural business and public agricultural service agencies, develop businesses, operational characteristics of commercial agricultura industries. (CSU) (UC credit limited. See a counselor.)
AG 26 (3)
AGRICULTURAL BUSINESS ORGANIZATION AND MANAGEMENT
3 Hrs. Lec.
Ag 25. Study of farm technological advance, mar keting, consumer demand and other such factors as determinants of growth, types and forms of agricultural business organization Farm and farm-related businesses considered from standpoint o primary functions, services and problems including investments,
mortgage and working capital requirements, credit and collec mortgage and working capital requirements, credit and tions, business with banks, failures and reorganization. mpphasis
on California farm-related industries. (CSU) (UC credit limited See a counselor.)
AG 27 (3)
AGRICULTURAL SALES AND SERVICE MANAGEMENT 3 Hrs. Lec. Supervision of people who sell agricultural products and services. of payment, use of advertising, promotion, incentives and service. (CSU)
AG 29 (3) ${ }^{\text {COMPUTER APPLICATIONS IN AGRICULTURE }}$ 2 Hrs. Lec. 2 Hrs. Lab.
introduction to terminology, programs, and commands used in computer application programs as applied to agriculture busines

AG 30 (3)
FOOD AND FIBER IN A CHANGING WORLD 3 Hrs. Lec.
Relationship of agriculture and natural resources to society. Where do our food and fiber come from? How does agricultur tunities in agriculture now and in the future? (CSU)
AG 32 (3)
AG 32 (3)
2 Hrs. Lec. 2 Hrs. Lab
Prerequisite: Ag 40 or permission of the instructor. Fundamental principles and practices of irrigation. Soil-moisture relationships, water measurement, methods of irrigation, crop requirements the irrigation farmer. Land preparation and irrigation methods, problems of irrigation, crop requirements, farm irrigation struc tures including investigation of drainage problems. Types of drain age systems and layout of farm drains, and drainage requ
for land reclamation and irrigated agriculture. (CSU)

AG 36 (3)
2 Hrs. Lec. 2 Hrs. La
A study of the materials and processes most suited to farm situa tions. Practical concrete design, farm layout and fabrication CSU)

## AG 38 (3)

POWER ELECTRICITY
Fundamentals of electric wiring; circuit layout and problems, motor and branch circuit protection, safe use of electricity, moto maintenance, wiring buildings and homes. (CSU)
AG 40 (3)
2 Hrs. Lec. 3 Hrs. Lab
Prerequisite: Math X and Chem 2A. Physical, chemical and bio soil-plant interrelations; development of the soil as a natural bod soil moisture, effect of management practices on soil properties composition and use of fertilizers. (CSU, UC)
AG 41 (3)
3 Hrs. Lec.
their properties 40 . The nature of fertilizers and soil amendments, their properties, methods of application, and reaction upon soils
and plants. Composition, value and use of fertilizer materials and and plants. Composition, value and use of fertilizer materials and
soil correctives. Methods employed in the manufacture, distri
bution, and application of fertilizers. (CSU) AG 42 (4)
INTRODUCTION TO CROP SCIENCE
3 Hrs. Lec. 3 Hrs. Lab
Principles and practices of crop improvement, propagation, pro
duction, processing storage duction, processing, storage, and marketing. Production, harves
and utilization of principal California crops. Field laboratory work
required. (CSU, UC)
AG 43 (4)
FIELD AND CEREAL CROPS
3 Hrs. Lec. 3 Hrs. Lab
Principles and practices of field and cereal crops production and
soil management including study of distribution soil management, including study of distribution, adaptation and
utilization of the major field and cereal crops. Field laborator work required. (CSU)
AG 44A (2)
VEGETABLE GARDENING-COOL WEATHER 6 Hrs. Lab.
Organic and inorganic production in vegetable gardening. Cul tural practices, harvesting, grading and processing, marketing,
disease and pest control of California vegetable crops. (CSU)

AG 44B (2) 6 Hrs. Lab.
Organic and inorganic production in vegetable gardening. Cul tural practices, harvesting, grading and processing, marketing,
disease and pest control of California vegetable crops. (CSU)

AG 45 (3)
3 Hrs. Lec.
Prerequisite: Ag 40 or permission of instructor. Principles involved in seasonal truck crop production, including the scope, value, harvesting, packaging and marketing of the major truck crops

AG 46 (3)
MATEMENTAL PLANT IDENTIFICATION AND 3 Hrs. Lec.
dentification, growth habits, culture and ornamental use of house plants,
adapted to the climate of the southern valleys of California. (CSU
AG 47 (3)
2 Hrs. Lec. 3 Hrs. Lab.
A general course in ornamental horticulture with emphasis o nursery operation. Includes nursery structures and layout, seed ing, transplanting, potting, balling, canning, fertilizing, pest con
rol, plant diseases, and abnormalities. Propagating and plantin mediums, their preparation and use. The use and maintenance o he common tools and equipment. (CSU)
AG 48 (3)
TREES, SHRUBS AND VINES
${ }^{3}$ Hrs. Lec.
Selection, planting, training, pruning and cultural practices of rees, shrubs, and vines in California - including citrus and grapes.
CSU)

## AG 49 (3)

AG 49 (3)
3 Hrs. Lec.
Common and noxious weeds of California, their identification, life history, and control. Chemicals and equipment used for weed and on wasteland. Poisonous weeds, their effects and prevention (CSU)

AG 51A (1)
APPLIED CROP MANAGEMENT
1 Hr . Lec.
The study and evaluation of cropping, and harvesting methods

AG 51B (1)
MANAGEMENT
Hr. Lec. field management practices during spring months.
(CSU)
AG 51C (1)
APPLIED CROP MANAGEMENT
1 Hr. Lec.
The study and evaluation of cropping methods and crop rotation practices. (CSU)

## AG 51D (1)

APPLIED CROP MANAGEMENT
The study.
The study and evaluation of cropping methods for the Imperial

AG 65 (3)
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.

ADS 9 (3)
3 Hrs. Lec.
(Same as HR 9/Psych 9) (CSU)
(Same as HR 9/Psych 9) (CSU)
ADS 10 (3)
SOCIOLOGY OF MINORITY GROUPS
3 Hrs. Lec.
Same as Sociol 10) (CSU, UC)
ADS 11AB (3-3)
Hr Lec 6Mrs Lab, field 1 Hr. Lec. 6 Hrs. Lab. field experien
Same as $\mathrm{HR} 11 \mathrm{AB} / \mathrm{Psych} 11 \mathrm{AB}$ ) (CSU)
ADS 15 (3)
SOCIAL AND PSYCHOLOGICAL DYNAMICS OF DRUG USE
3Hrs. Lec.
Same as Psych 15/Sociol 15) (CSU)
ADS 50 (3) HUMAN SERVICES IN A CHANGING SOCIETY 3 Hrs. Lec.
History, philosophy and the development of thought in socia work. A content area designed to identify and analyze the primary
helping services in urban and rural America. Observation and eporting techniques will be emphasized. This course will identify new programs and careers in the emerging Human Services field.

ADS 51 (3) RECOVERY
This course will serve as an introduction to assessment and treat ment approaches to alcoholism and drus abuse. Alcoholism will be studied in its social and clinical context. Attention will be given to he basic theoretical approaches to the disease. This course wil recovery. (CSU)
ADS 52 (3)
PHYSIOLOGICAL EFFECTS OF ALCOHOL
AND DRUGS
Hrs. Lec.
The course is designed to provide the student with information on the processing systems of the body and how they react to
alcohol and drugs. This course will seek to explain where and how drugs act and why. The course will bring about an understanding of how drugs influence consciousness, mood, and feeling. It will enable students to understand that both the internal and external nvironments have important effects on the well-being of the

## ADS 53 (3) <br> ADS 53 (3)

GROUP LEADERSHIP AND GROUP PROCESS
Prerequisite: ADS 9/Psych 9/HR 9. This course will introduce the student to group theory and process, and how groups affect the whole social scene. It will examine membership in and leadership sideration will be given to goals and strategies of social change and the necessity for social change in relation to personal and social allues. The factors involved in problems of communications
veltective emotional lesponses and personal growth also will be ighlighted emplizing the process as a means of chang ing behavior. (Same as Psych 53) (CSU)

ADS 54 (3)
AND DPCOUNSELING APPROACHES TO ALCOHOL AND DRUG
3 Hrs. Lec.
A course desi
A course designed to present basic ideas and theories about family dynamics, particularly as they apply to the family of the substance abuser, and to explore strategies for counseling the client's family The approach is highly experiential in format and students wi participate in exercises frequently to incorporate new skills an heory. (CSU)
ADS 55 (3)
CRISIS INTERVENTION AND REFERRAL TECHNIQUE
Prerequisite: ADS 9/Psych 9/HR9 or permission of the instructor Prerequisite: ADS $9 /$ ssych $9 / 4 R 9$ or permission of the instructor, viewing and referral will be studied and practiced. Special atten tion will be given to the process of intervention, admitting, an recording of information as it pertains to alcohol and drug abus
clients. Through an experiential format, participants will lear and practice skills in brief therapy, different levels of client com and practice skils in brief therapy, difterent levels of chient com ADS 56 (3)
PROGRAM MANAGEMENT TECHNIQUES 3 His. Lec
This course will introduce students to basic management prin ciples as applied to Substance Abuse programs. Topics will issues related tion. (CSU)

ADS 57ABCD (1-3, 1-3, 1-3, 1-3)
CURRENT ISSUES IN DRUG ABUSE
1-3 Hrs. Lec.
A variety of one-unit courses covering current, specialized area in alcohol and drug abuse. Ats the field changes, the semester offerings will vary. Such topics as Women and Alcoholism, Alco holism, Sexuality and Intimate Relationships, Cross-cultural Abuses and the Law, and Counseling the Adolescent Abuser wil be included. (CSU)

## ALTERNATE ENERG

## AE 10 (3)

PRACTICAL METHODS IN SOLAR ENERGY
3 Hrs. Lec.
This course explores active and passive solar design systems in housing construction, the low cost energy savers that renters can low technology solar designs. (CSU)

AE 20 (3)
ALCOHOL FUEL PRODUCTION
A study of the procedures, processes and issues of entering into fermentation ethanol production. Also included are construction techniques applicable to the alcohol plant. (CSU)

ANAT 6 (3) OCCUPATIONS
3 Hrs. Lec.
Introductory study of the structure and function of the human It is not acceptable for pre-medical, pre-dental, pre-chiropractic pre-physical therapy or registered nursing students, and it is no open to students who have completed Anat 8 or Anat 10 with grade of "C" or better.

## ANAT 8 (4)

2 Hrs. Lec. 6 Hrs. Lab
Prerequisiste: High school biology with a grade of C or better or the human body and their interrelationships. (CSU) (UC cred mited. See a counselor.)

ANAT 10 (5)
HUMAN ANATOMY \& PHYSIOLOGY
Hrs. Lec. 6 Hrs. Lab
rerequisites: One year of high school chemistry and biology or icense. A study of the structure level or a current California LVN ism. Emphasis is the structure and function of the human organ ous, reproductive, and digestive systems. (CSU) (UC cred vous, reproductive, and

ANTHROPOLOGY

ANTHRO 1 (3)
(CAN ANTH 2 3 Hrs. Lec.
The processes and course of human evolution; mankind's place The processes and course of human evolution; mankind's place living peoples and their genetic background. (CSU, UC)
ANTHRO $2(3)$
CULTURAL ANTHROPOLOGY
(CAN ANTH 4) CULTURA
3 Hrs. Lec.
Prerequisite: Eleventh grade reading level ability is recommended Prerequisite: Eleventh grade reading level ability is recommended
for success in this course. An introduction to the nature of culture especially as seen in primitive society. Includes such topics as cultural history, the process of culture, technology, social organ zation, language, religion, and personality. May be taken befor nthro 1. (CSU, UC
ANTHRO 3A (3)
NTRODUCTION TO ARCHAEOLOGICAL SITE 2 Hrs. Lec. 2 Hrs. Lab
Introduction to archaeological site surveying; historical develop ment of archaeology; major contributors in 20th century; arch aeological trends; methods of site surveying; types of sites; fiel
reconnaisance; site reports and records; preparing field materia econnaisance; site reports and records; preparing field material
or laboratory care and analysis; trails, artifacts, and features; or laboratory care and analysis; trails, artil

ANTHRO 3B (3)
NTRODUCTION TO ARCHAEOLOGICAL
2 Hrs. Lec. 2 Hrs. Lab
Introduction to archaeological excavations; mapping; laying out sites with transit, rod and alidade; archaeological excavation selecting sites; testing and trenching; stratigraphy; keepin materials for carbon and amino acid dating; pollen and soil tests. (CSU)
ANTHRO 3C (3)
2 Hrs. Lec. 2 Hrs. Lab.
Prerequisite: Anthro 3A and consent of the instructor. Students to conduct independent surveys, research records, devise tables
and maps, lead small field crews on surveys and write technical but readable reports. Field surveys will be in various environ mental areas in Imperial and San Diego counties. Students must
plan for 1.3 additional hours by arrangement. (CSU)
ANTHRO 3D (3)
archaeological excavations
2 Hrs. Lec. 2 Hrs. Lab
Prerequisite: Anthro 3B and consent of the instructor. Students will design a field excavation project, organize a small field crew micro-map the area, process materials and data in the laboratery, micro-map the area, process materials and data in the laboratory, aboratory studies will include curation, photography and C14 processing. Students must plan for $1 \cdot 3$ additional hours by rrangement. (CSU)

## ANTHRO 4 (3)

3 Hrs. Lec.
Hrs. Lec.
peoples to their envirdians and the relationships of these tribal pecific Indian tribal environments; linguistic families; life styles of stitutions, structur societies; Indian art, music, stories, religions UC)

## ANTHRO 6 (3)

NDIANS
Early migrations to the New World demography and ecology of he Amerindian cultures in Alaska, Canada, United States Mexico and Central America, in Pre-Columbian times. Th

## ANTHRO 8 (3) <br> ANTHRO 8 (3)

3 Hrs. Lec.
A study of the natural and human ecology of the Southwest as applied to aboriginal life; Early Man in the Southwest, especially development of the Anasazi, Sinagua, Hohoka and Mogollon cul ures. Intercultural relations, trade, ceramics, pueblo life, religion art and agriculture. Cultural extensions into California. Rise o modern societies, as the Zuni, Hopi, Navajo and Apache. Con mporary life. (CSU, UC)
ANTHRO 16AB (3-3)
3 Hrs. Lec.
This course traces the origins and developments of ceramics in Ne New and Old Worlds. Emphasis will be on the materials, tech niques, and ceramic products of the Southeastern Caifiorni
indians, especially the Lower Colorado River groups. Student will work with clays and clay preparations, vessel, figurine, and mask forms, pinch and coil construction, decorations, sun-drying and kiln firing. Lecture-demonstrations will be the class base
ICSU, UC)

ART 3A (3)
(CAN ART 2)
HISTORY AND APPRECIATION OF ART
Hrs. Lec
Ars. Lec. A survey of the developments in art in painting, scupture, archisance. (CSU, UC)
ART 3B (3)
(CAN ART 4)

## ART

 3 Hrs. Lec.A continuatio
A continuation of Art 3A extending from the Renaissance to con emporary times. May be taken before or concurrently with Art
A. (CSU UC)

ART 4 (3) 3 Hrs. Lec.
Art 4 is a broad analytical survey of painting, sculpture and archi. ecture from 1900 up to the present. Emphasis is placed upon the evelopment of styles of painting and their relationship to eac
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## ART 18A (3)

2 Hrs. Lec. 4 Hrs. Lab.
The study of watercolor painting with emphasis upon color, com osition and pictorial expression. Exploration of various tech iques employing the medium of watercolor. (CSU) (UC credi mited. See a counselor.)

## ART 18B (3)

HATERCOLOR PAINTING
Prerequisite: Art 18A. Continuation of watercolor painting. Stress is on achieving confidence and fluency in the medium. Student are encouraged to expand the range of the experience acquired See a counselor.)
ART 20A (3)
Hrs. Lec. 4 Hrs. Lab.
a basic course in drawing involving analysis of line, form, tone exture and color as essential media of expression. (CSU) (UC

## ART 20B (3)

Hrs. Lec. 4 Hrs. Lab. mited. See a counselor.)

## ART 21A (3)

Hrs. Lec. 4 Hrs. Lab.
Prerequisites: Art 2AA and 20B. A continuation of the develop ment of composition and the various techniques employed in drawing and painting. Includes figure drawing, landscape, and
still life. Painting covers styles of painting from the Neo-classic thill the present day. (CSU) (UC credit limited. See a counselor.
to

## ART 21B (3) <br> PAINTING

Hrs. Lec. 4 Hrs. Lab
(CSU) (UC credit Prerequisite: Art 21A. A
limited. See a counselor.)

## ART 22A (3)

2 Hrs. Lec. 3 Hrs. Lab
Fundamentals of design and composition; theory of color.
Includes organization and utilization of basic elements the design problems. (CSU) (UC credit limited. See a counselor.)

## ART 22B (3)

2 Hrs. Lec. 3 Hrs. Lab
Intermediate studies of elements and principles of art with empha
sis on three-dimensional design theory (CSU) (UC sis on three-dimensional design theory. (CSU) (UC credit limited
See a counselor.)
See a counselor.)
ART 23A (3)
CERAMICS
1 Hr. Lec. 5 Hrs. Lab.
An introduction to ceramics; basic methods of forming, decora ting, glazing and firing. (CSU) (UC credit limited. See a counselor.) ART 23B (3)
1 Hr. Lec. 5 Hrs. Lab.
Prerequisite: Art 23A. A continuation of Art 23A with emphasis
on the potter's wheel. (CSU) (UC credit limited. See a counselor.)

## ART 23C (3)

1 Hr. Lec. 5 Hrs. Lab.
Prerequisite: Art 23 B with a grade of C or better. A continuation of Art $23 B$ with special emphasis on glaze formulating and decora
ting techniques. (CSU) (UC credit limited. See a counselor.) ART 24AB (3-3)
ERAMIC SCULPTURE
Hrs. Lab.
A course in basic ceramic scupptire techniques with emphasis
on the human form. (CSU) (UC credit
ART 25A (3)
Hr. Lec. 5 Hrs. La
Prerequisites: Art 20A and 20B with a grade of Cor better. Many ypes of drawing and painting techniques are used to further the the human figure. (CSU) (UC credit limited. See a counselor.)

## ART 25B (3) LIFE DRAWING

6 Hrs. Lab.
Prerequisite: Art 25A. A continuation of Art 25A. Art 25Bincludes exploration of painting techniques using varied media. (CSU) (UC

## ART 28 (3)

TECHNICAL CERAMICS
2 Hrs. Lec. 3 Hrs. Lab.
the raw materials used in compounding clay bodies. A study of Specific problems of glaze calculations and techniques of glaze. application. (CSU) (UC credit limited. See a counselor.)

## ART 30A (2)

## 11/2 Hrs. Lec. $11 / 2$ Hrs. Lab

An exploratory course intended for nonart majors; provides a
basis for an understanding of the fundamental art principles.
Offers Offers experience in creative expression. (CSU, UC)

ART 30B (2)
NTRODUCTION TO ART
$11 / 2$ Hrs. Lec. $11 / 2$ Hrs. Lab.
Prerequisite: Art 30 A . A continuation of Art 30 A which is an
exploratory course intended for exploratory course intended for nonart majors; provides a basis
for an understanding of the fundamental art principles. Offers experience in creative expression. (CSU, UC) ART 33 (1)
ART 33 (1)
GALLERY DISPLAY
2 Hrs. Lab.
Theories, techniques and practices of art gallery exhibition. (CSU) ART 40 (2)
1 EXPLORATION OF PAINTING TECHNIQUES 1 Hr. Lec. 2 Hrs. Lab.
An exploratory course which provides opportunities to work with the various painting techniques. Basic painting assignments to color usage and structure of the painting. Suggestions and eval uation of student work will take place on an individual basis. (CSU)
(UC credit limited. See a counselor.)

## ASTRONOMY

## ASTRON 21 (3)

EEMENTARY ASTRONOMY
Prerequisite: Completion of the Mathematics 51 requirement.
The course covers the solar system, the stars, Milky Way galaxy, cosmologe, and the identification of stars and constellations in
the planetarium. (CSU, UC)

## AUTOMOTIVE BODY AND PAINT

AUTO BODY 70 (5)
AUTO BODY REPAIRING AND PAINTING 3 Hrs. Lec. 6 Hrs. Lab.
Prerequisites: Weld 30 and Weld 32 , or permission of the instruc-
tor. The study of all tor. The study of all phases of body repair and painting. Covers the use of modern tools and equipment and procedures for
handling typical body-paint jobs. (CSU) AUTO BODY 71 (5)
ADVANCED AUTO BODY REPAIRING AND PAINTING 3 Hrs. Lec. 6 Hrs. Lab.
Prerequisites: Auto Body 70 or permission of the instructor Covers all phases of body repairing and repainting. Use of modern tools and equipment, step-by-step procedures for handling typical
jobs. (CSU) AUTO BOD
AUTO BODY 72 (5)
AUEPAIRING LIGHT TRUCK MAJOR COLLISION
3 Hrs. Lec. 6 Hrs. Lab
Prerequisites: Auto Body 71 and/or concurrently Weld 30 , Weld 32 or permission of the instructor. Covers all phases of heavy damage, using modern equipment with step-by-step procedures.
(CSU)

## AUTOMOTIVE TECHNOLOGY

Some courses in the field of Automotive Technology are offered on alternate years only. Students should keep this in mind as they plan their long-range programs of study with the assistance of their counselors. Enrollment in automotive technology courses automotive technology class is passed with a " $C$ " grade or better.
AUTO TECH 50 (1-3)
APPLIED MA
1-3 Hrs. Lec.
1.3 Hrs. Lec.

Same as Aget 50 , Math 50 , PL 50 and Weld 50 )
AUTO TECH 51 (5)
NGINE TECHNOLOGY
3 Hrs. Lec. 6 Hrs. Lab.
round. Design, construction internal combustion engine backombustion engines including lubricating, cooling, fuel and elec ical systems; and an understandingot the cooling, fuel and elecsuch topics as internal combustion and energy conversion such topics as internal combustion and energy conversion.
AUTO TECH 52 (3)
MANUAL TRANSMIS
Hrs. Lec. 3 Hrs. Lab.
Design, construction and mechanical function of clutches, manual (CSU)

AUTO TECH 53 (5)
BRAKES AND SUSPENSION
Study of manual and power braking systems, wheel alignment pring suspension, tires, tire trueing, wheel balancing, and whee earings. Diagnosis and services procedures on repair jobs.

AUTO TECH 54
CARBURETORS, FUEL INJECTION AND EXHAUST SYSTEMS
Hrs. Lec. 3 Hrs. Lab.
Advanced study of automotive fuel systems (carburetors, fuel pumps, intake manifolds, exhaust system and emission controls).

AUTO TECH 55 (5)
ADVANCED GASOLINE ENGINES AND LIGHT DUTY DIESEL ENGINE REBUILDING
Prerequisite: Auto Tech 51 or two years of high school auto rerequisite: Auto Tech 51 or two years of high school auto mustion engine and service procedures in the use of automotive machine shop tools and machines for rebuilding the engine. (Same s Aget 33B) (CSU)

AUTO TECH 56 (3)
DIAGNOSTICS
Prerequisites: Auto Tech 54 and Auto Tech 60 . Troubleshooting the various components of the automobile using the oscilloscope and dynamometer and other precision instruments. To include the study and servicing of various automotive smog devices.
(CSU)

AUTO TECH 57 (3)
2 Hrs. Lec. 2 Hrs. Lab.
A study of the principles and laws governing fluids. The design and function of hydraulic and pneumatic components, seals, fluid
types, circuits and symbols. Latest developments in the contro types, circuits and symbols. Latest developments in the contro nology. (Same as Aget 35) (CSU)
AUTO TECH 58 (3)

## IR-CONDITIONING

The course 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. (CSU) dustry. (CSU)

## AUTO TECH 59 (3)

## MALL GASOLINE EN

The history, design, construction and mechanical function of the small gasoline engine, including tune-up and major repair of the electrical and mechanical systems. (Same as Aget 37) (CSU) AUTO TECH 60 (5)
LEC TRICAL, STARTING, CHARGING, IGNITION AND ELATED ELECTRICAL SYSTEMS
3 Hrs. Lec. $\mathbf{6}$ Hrs. Lab.
Advanced study of automotive electrical systems. Basic diagnosis and service procedures on the various systems. (CSU)

## AUTO TECH 61A (5)

AUTOMATIC TRANSMISSION
3 Hrs. Lec. 6 Hrs. Lab.
Design, constructon, mechanical and hydraulic function and epairs of the automatic transmission. (CSU)

## AUTO TECH 61B (5)

ADVANCED AUTOMATIC TRANSMISSIONS 3 Hrs. Lec. 6 Hrs. Lab
Prerequisites: Auto Tech 61A, Auto Tech 52 , or one of the above with concurrent enrollment in the other. Advanced study using our major domestic and foreign automatic transmissions, with emphasis on practical rebuilding of automatic transmissions, including locking torque converters and 4 .speed overdrive and
front wheel drive transaxles. Applied shop practices for advanced students who wish to refine technical skills prior to obtaining employment in the industry. (CSU)

## AUTO TECH 65 (3)

BASIC MACHINE SHOP TECHNOLOGY
2 Hrs. Lec. 3 Hrs. Lab.
A general course designed for students desiring to work in the various areas of automotive technology involving machine shop
operations. Skill is developed in the operation of lathes, milling machines, drill presses, grinders, shapers, hand and bench tools, and heat treating. The proper use of materials, safety and care of
equipment is emphasized. (CSU)

AUTO TECH 66 (3)
ADVANCED MACHINE SHOP TECHNOLOGY
2 Hrs. Lec. 3 Hrs. Lab.
course designed to develop advanced skills in the instructor. A lathes, milling machines, drill presses, grinders, shapers and sew ing machines, The proper use of materials, safety and care of

AUTO TECH 75 (3)
3 Hrs. Lec.
This is a comprehensive course in tool usage, nomenclature and erminology of tools and equipment for the beginning student in he technologies. The course is for the student who has no he bilingual student who wants to improve his/her technical ocabulary. (Same as Aget 75, Weld 75)
AUTO TECH 80 (2)
EMISSION CONTROLS AND HEADLIGHT DIAGNOSIS AND ADJUSTMENTS
11/2 Hrs. Lec. $11 / 2$ Hrs. Lab. experience as a mechanic in the automotive field. Review and dvance study of tune-up, emission controls and headlight prob ems using correct procedures as set forth by the State of Calirnia. This course will also be using required specifications and equipment. (CSU)

## AUTO TECH 81 (2)

NG AND AIR-CONDITIONING $1 / 2$ Hrs. Lec. $11 / 2$ Hrs. Lab.
rerequsites: Auto Tech 53 or permission of the instructor. This ourse is designed for those students who wish to pass the brake icensing state test by learning state laws, brake adjusting and (CSU)

UUTO TECH 90ABC (3-3-3)
ODVANCED AUTO TECH SHOP PRACTICE
1 Hr. Lec. 4 Hrs. Lab. tive technology or permission of the instructor. Auto Tech applied hop practices is for advanced students who wish to refine tech nical skills prior to obtaining employment in the industry. (CSU)

|  | marketing, government and legal regulations, pricing and taxes. (CSU) |
| :---: | :---: |
| BIOLOGY | BUS 3 (3) <br> BUSINESS MANAGEMENT |
|  |  |
| BIO 3 (4) |  |
| PRINCIPLES OF BIOLOGICAL SCIENCE <br> 3 Hrs. Lec. 3 Hrs. Lab. | A study of the organizing and merchandising problems of a business; financial problems; business management. (CSU) |
| Not open to students with credit in Zoology or Botany. A con- | BUS 4 (3) |
| sideration of basic biological phenomena. Designed for those | PRINCIPLES OF MARKETING |
|  | 3 Hrs. Lec. <br> A course of study designed to introduce students to the organiza- |
| year course in the basic principles of natural science. (CSU) (UC credit limited. See a counselor.) | tion and operation of marketing activities, including the study of the marketing mix, markets, promotion and strategic planning. (CSU) |
| BIO 21 (5) | BUS 5A (3) (CAN BUS 8) |
| GENERAL MICROBIOLOGY | BUSINESS LAW |
| 3 Hrs. Lec. 6 Hrs. Lab. | 3 Hrs. Lec. |
| Prerequisite: One year each of high school chemistry and biology or one semester each at college level or a current California LVN | Course of study designed to immerse students in the various areas of Business Law as it relates to business. Courts and court pro- |
| license. Provides students with fundamental concepts of the struc- | cedures, contracts, government regulation, agency, partnership |
| ture and physiology of nondisease and disease producing micro- | d corporation law, as it applies to business, are some of the |
| organisms with particular attention to bacteria. Basic techniques | ceas covered. Included in the course are the environmental, |
| for culturing, staining, counting and identifying microorganisms. Designed to meet the requirement to enter one of the medical | ical, political and social factors which influence the develop- ent and operation of the legal system. (CSU) (UC credit limited. |
| fields as well as general education. (CSU, UC) | See a counselor.) |

BIO 22 (4)
MICROBIOLOGY FOR ADVANCED PLACEMENT OF 2 Hrs. Lec. 6 Hrs. Lab
Prerequisite: One year of high school chemistry and biology or one semester each at the college level or a current California LVN
license. For students currently accepted for advanced placement by the IVC Nursing Department. Provides the student with fundamental concepts of the structure and physiology of nondisease and disease producing microorganisms with lesser emphasis on nondisease produce
staining and staining, and identifying bacteria

## BUSINESS

PRINCIPLES OF ACCOUNTING
(CAN BUS 2)
4 Hrs. Lec. 1 Hr. Lab
Prerequisite: Satisfactory score on the mathematics placement Pest or completion of Math 51 with a grade of $C$ or better. Introduction to the theory, practice, and principles of accounting as they relate to service enterprises and mercantile enterprises. summarizing and reporting, receivables, payables and inventories, deferrals and accruals, depreciation, systems and controls and payroll systems. (CSU, UC)
BUS. 1B (4)
PRINCIPLES OF ACCOUNTING
(CAN BUS 4) 4 Hrs. Lec. 1 Hr. Lab.
abory completion of Bus 1A. Principles involved in partnerships, corporations, departmental accounting, volved in partserships, corporations, departmental accounting,
process cost systems, job order costs, ,udgetary control, income
taxes, cash flow, and financial statement analysis. (CSU, UC)

BUS 2 (3)
3 Hrs. Lec.
3 Hrs. Lec.
A basic beginning college course that introduces U.S. business and industry. Includes the nature and importance of business, marketing, government and legal regulations, pricing and taxes.

BUS 3 (3)
A study of the organizing and merchandising problems of a busi ness; financial problems; business management. (CSU)
course of study designed to introduce students to the organiza. tion and operation of marketing activities, including the study of
the marketing mix, markets, promotion and strategic planning.
(CSU)

USINESS LAW
CAN BUS 8)
ars cedures, contracts, government regulation, agency court proareas covered. Included in the course are the aneme of the emical, poitical and social factors which influence the develop-
ment and operation of the legal system. (CSU) (UC credit limited. 36

BUS 5B (3)
BUSINESS LA
BUSINESS LA
3 Hrs. Lec.
Principles of business law and their application to actual cases involving business transactions, personal property and bailments, sales, security devices and insurance, partnerships, corporations, real property, estates and bankruptcy, and government and business. Bus 5B may be tak
limited. See a counselor.)

BUS 6 (3)
MANAGEM
3 Hrs.
The role of the supervisor in industry and business; the development of techniques in meeting administrative, organizational, labor and human relations problems; the utilization of men, machines and materials, and CSU)
BUS 7 (3) HUMAN RELATIONS IN MANAGEMENT
3 Hrs. Lec.
c. Frvision by the use of basic psychology in building mproving supervision by the use of basic psychology in building
better employer-employee relationships through human relations echniques; development of leadership qualities; main human elations problems and their causes and solutions. (Same as HR 7) CSU)

## BUS 8 (3) <br> INEI MANAGEMENT

Hrs. Lec. current theories and practices based upon research and compan experience. Includes the personnel management system, staffing, employee and management development, group benavior, man agement-union rela
the future. (CSU)
BUS 10A (3)
3 Hrs. Lec.
A basic course in elementary basic accounting principles that uses the "practice set approach" to learn how to journalize and post transactions for service-type bus.
books on the cash and accrual basis.

## BUS 10B (3)

KKEEPING
3 Hrs. Lec. Bus 10A or permission of the instructor. A course that uses the "practice set approch" in learning how to journaiize and post transactions for merch

## BUS 13 (3)

BUSINESS LAW
3 Hrs. Lec
A one-semester course covering courts and court procedures, contracts, sales contracts, bailments, negotiable instruments, agency and employment, partnerships, corporationsi ited Bus 5
and property. Not open to students who have completed or the equivalent.
BUS 14 (3) PRACTICAL SALESMANSHIP
3 Hrs. Lec.
The practical background of salesmanship; the duties and functions of a salesperson in the selling of ideas, services, and pro-
ducts. Includes the place and importance of salespeople in the marketing structure of the U.S. economy. (CSU)

BUS 15 (4)
INTRODUCTORY CALCULUS WITH APPLICATIONS
${ }_{\text {4 Hrs. Lec. }}$ (Same as Math 15) (CSU)
BUS 19 (3) PERSONAL DEVELOPMENT FOR EMPLOYMENT 3 Hrs. Lec.
tudy of the process and practice of obtaining
A thorough study of the process and practice of obtainingemployment in the business world. Designed to meet the special needs
of students in the fields such as: Marketing. Distribution; Business of students in therestarial-Clerical; Accounting-Bookkeeping; and Data Processing, etc. Skills development in the areas of job search, employer contact, resume writing, interviewing techniques, interview follow-up, proper dress, and job-holding pracces. (CSU)

## BUS 20 (2)

2 Hrs. Lec. 3 Hrs. Lab.
Designed to impart the fundamental skills and knowledge of Designed to impart ise introduced to the basic concepts of type-
typing. The student is writing production. Not open to truction in typewriting. (CSU)
BUS 21ABC (3-3-3)
1 Hr. Lec. 4 Hrs. Lab.
Prerequisite: Bus 20 or the ability to type 20 wpm . Designed to Prerequisite: Bus 20 or the levilt skill. Emphasis is placed on business letters, manuscripts, tabulation and statistical work. Bus 21 B may be taken by those students who do not attain office-leve proficiency in Bus 21A. Bus 21 C may be taken by those studen
BUS 22A (3)
NORD PROCESSING
Prerequisite: Ability to type 40 wpm , Bus 40 , or permission of the instructor. Designed to teach students to use various worr processing equipment incluaing the michine transcription equipment. (CSU)

## BUS 22B (3)

WORD PROCESSING
Hrerequisite: Bus 22 A, ability to type 40 wpm , or permission of the instructor. Designed to teach students the advanced functions various word processing equipment including main frame col

BUS 23 (3)
OFFICE MACHINES
Prerequisite: Satisfactory score on mathematics placement test Prerequisite: Satisfactory score on mathematics placement eves skills required for rapid and accurate operation of calculating machines. (CSU)

BUS 24 (3)
RECORDS MANAGEMENT
3 Hrs. Lec.
Lecture and supervised individual and group procedural activity designed to acquaint students with progressive filing and records management rules, procedures and techniques. Alphabetic, numeric, geographic and subject filing are studied. (CSU)

HBOARDING: SPEED AND ACCURAC
2 Hrs. Lec. 3 Hrs. Lab.
An individualized diagnostic, prescriptive met words per minute. accuracy and speed. Emphasis is placed on development of keyoarding speed and accuracy ratings between 20.90 net words per minute. (CSU)

## BUS 26 (3)

EMENTARY STATISTICS
(Same as Math 12 and Psych 13) (CSU, UC
BUS 27AC (1-3, 1-3, 1-3)
PUTER SOFTWARE
These variable-length course(s) are designed to meet the occupa tional needs of those who will be using microcomputers. It prooperation software and business applination of the computer electronic spreadsheets, data management word graphics and fundamentals of dBASE language-derived programs.
BUS 28A (3)
CERTIFIED PROFESSIONAL SECRETARY
3 Hrs. Lec.
Prerequisite: Must key 50 characters per minute, Bus 39 or per-
mission of the instructor This to learn about and experience in mock form, the first three sec tions of the Certified Professional Secretary examination. Discussion of eligibility requirements, efficient test-taking principle the application process, and study aids will be part of the course.
BUS 28B (3)
CERTIFIED PROFESSIONAL SECRETARY II 3 Hrs. Lec.
Prerequisite: Must key 50 characters per minute, Bus 39, or per-
mission of the instructor. This course to learn about and experience, in mock form, the opportunity sections of the Certified Professional Secretary exand thre An overview of the Certified Professional Secretary exam will tion for the exam and organization for study

## BUS 31 (3)

2 Hrs. Lec. 3 Hrs. Lab.
Prerequisite: Ability to keyboard 20 wpm or concurrently enrolled in Bus 20. A beginning course in Gregg Shorthand. Theory and retaries. (CSU)
BUS 32AB (3-3)
IICTATION \& TRANSCRIPTION LAB Hrerequc. 4 Hrs. Lab.
Prerequisite: Abiitity to keyboard 30 wpm or concurrently enrolled mum dictation rat or one year of high school shorthand. Mini emphasis on dictation and transcrieption speed building to proBUS 39 (3)
OUSICE (3) 3 OCEDURES
2 Hrs. Lec. 3 Hrs. Lab.
rerequisite: Bus 21 AC or the ability to type 50 wpm . An inte rated course oriented toward production techniques that mee ffice duties stressing those competencies required of thil range ol office worker. (CSU)

BUS 40 (3)
GRAMMAR AND USAGE
Prerequisite: Assignment by placement test. A review of the parts of speech, the structure of the sentence, and punctuation. Exer-
cises to improve English usage will begin with 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 $2 A B$. Concurrent enrollment in Eng $13 A B$ is strongly or Eng 2 AB . Concurrent enrollment in Ens 13 AB is strongly recommended. Satisfies part of the graduation requirement in

BUS 41 (2)
2 Hrs. Lec.
Prerequisite: Ability to type. Bus 40 recommended. Emphasizes the basic elements and skills necessary for effective busines communications. The business vocabulary - pronunciation, spe
ling, meaning, and punctuation - together with standard, writing styles will be stressed. Not open to students who hav completed Bus 42.
BUS 42 (3)
BUSINESS COMMUNICATIONS
3 Hrs. Lec.
Prerequisite
Prerequisite: Keyboarding skills. This course will teach the skill and strategies necessary to be an effective business communica-
tor in both writing and speaking. Written and oral assignment regarding memorandums, letters, and reports for business will be required. (CSU)
BUS 43 (3)
BUSINESS CORRESPONDENCE IN SPANISH
3 Hrs. Lec.
Recommended for bilingual students with Bus 42 or equiva Practice in letter form and style, business vocabulary, spelling and punctuation. Emphasis on differences and similarities in
English and Spanish business correspondence. (CSU) English and Spanish business correspondence. (CSU) BUS 50 (3)

## INTRODUC <br> Hrs. Lec.

An introductory course designed to teach the basic understanding of data processing systems, to survey machines, to familiariz
the student with the electronic computer as the basis for dat processing systems and to introduce the student to programming CSU) (UC credit limited. See a counselor.)

MICROCOMPUTER KEYBOARDING 1 Hr. Lec. 2 Hrs. Lab.
Designed to impart the fundamental touch operation of the alpha-
betic, numeric, and 10 -key keyboards. The betic, numeric, and 10 -key keyboards. The course helps students
reach optimum skill within a limited amount of time in the efficient use of computer terminals, information processors, and microomputers. (CSU)

## BUS 52 (3)

ROGRAMMING IN COBOL I
3 Hrs. Lec.
rerequisite: Bus 50. A basic course in the programming of elec rosely related occupations for employment in business and
cond industry. Course covers problems of data processing, characteristics of computers and computer programming. (CSU) (UC
credit limited. See a counselor.)

BUS 53 (3)
3 Hrs. Lec.
Prerequisite: Bus 52. A second semester course in electronic
digital computer programming digital computer programming designed for student achievement devices, machine-aided coding, program optimizing, basic file maintenance, computer problem planning and report writing. (CSU) (UC credit limited. See a counselor.)
BUS 54 (3)
DATA PROCESSING SYSTEMS
3 Hrs. Lec.
Prerequisite: Bus 53. A study of data processing systems and processing including analysis of various existing business data processing applications, integrated processing principles, total
management information, and data systems concepts. Case study projects developination, and datailed data prostecessing procedures are

BUS 55 (3)
BUS 55 (3)
3 Hrs. Lec.
(Same as Math 47) (CSU) (UC credit limited. See a counselor.)
BUS 56AC (1-1-1)
BUS 56AC (1-1-1)
2 Hrs. Lab.
Corequisite: Enrolled in a course requiring computer support A hands-on lab class which supports thouse courses requiring using word processing, programming, integrated software pro grams or decision support applications. (CSU) (UC credit limited. See a counselor.)

BUS 57 (3)
PROGRAMMING IN BASIC
3 Hrs. Lec.
Prerequisite: Bus 50 is recommended. A practical course cover ing the fundamentals of BASIC Programming Language as
adapted to a variety of different applications. (Same as Math 57) (CSU) (UC credit limited. See a counselor.)

BUS 58 (3) 2 AND ACCOUNTING
2 Hrs. Lec. 2 Hrs. Lab.
Prerequisite: Bus 1 A or Bus 10 B or permission of the instructor. Prerequisite: Bus 1 A or Bus 10 B or permission of the instructor.
This course focuses on the "practice set" approach to bookkeeping and accounting on the microcomputer. Students will have an opportunity to utilize a variety of software which will familiarize them with the microcomputer and with computerized bookkee

## BUS 59 (1)

COMPUTER OPERATIONS
1 Hr . Lec. ${ }^{5} \mathrm{Hr}$. Lab.

## RATIONS

The class will introduce
systems, workload manasicrocomputer architecture, operating systems, workload
approach. (CSU)

## BUS 60 (3)

PRINCIPLES OF BANK OPERATIONS
3 Hrs. Lec
隹 the beginning s
banking. (CSU

BUS 61 (3) ANALYSIS OF FINANCIAL STATEMENTS
3 Hrs. Lec.
Prerequisites: Bus 1A and Bus 1B. This course focuses upon investment and analysis of credit to a ppraise the extent and nature
of risk involved, and to determine the willingess and aility of risk involved, and to determine the willingness and ability terms set forth. Topic includes profit-loss analysis. Analyzing of inventory and the development of ratio analysis. (CSU)
INSTALLMENT CREDI
3 Hrs. Lec
In this class emphasis is placed on establishing the credit obtaine checking information; servicing the loan and calculating th
amount due. Other topics discussed are inventory financing and special loan programs. Business development advertising in the
relations aspect of installment lending. (CSU)

## BUS 63 (3)

## FINANCIN <br> 3 Hrs. Lec.

Stress is placed on the difference between lending and investin Investing in a corporation and financing a corporation or the dit
ferent aspects of the same subject. In this course the material is presented from the same subject. In this course the material is saeseguard the financial future of his/her corporation. (CSU) BUS 64 (3)
AGRIC TURAL FINANCE
This course emphasizes general principal associations wit evaluation of management and the use of capital rather tha stressing the examination of land and labor resources which ar more closely aligned with agricultural production. An under
standing of agricultural financing should help the banker in satis fying the credit needs of modern agriculture. (CSU) BUS 65 (2)
RETAIL SALES CHECKING
2 Hrs. Lec. 1 Hr. Lab.
A practical skills course of instruction designed to prepare a per BUS 66 (.5)

## EFFECTIVE

5 Hr . Lec.
This course is designed to develop the student's skills in under standing and dealing with customers in a variety of customer se
vice situations. Class discussion focuses on the principles of effec ive customer service, generating positive customer relations, customer behavior styles, employee coping strategies, commun cation techniques, dealing with angry customers, and effectiv
elephone techniques. Case studies, simulations, video presen telephone techniques. Case studies, simulations, video presen
tations, and diagnostic instruments are used to supplement class discussion.
BUS 70 (3)
FUNDAMENTALS OF GOVERNMENTAL
MANAGEMENT
Explores theory and practice of complex organizations with em Explores theory and practice of complex organizations with em
phasis on administrative structure and functions, the role of bureaucracy; and the conditioning of administration by its envir
onment. Techniques and practices are suggested which will help onment. Techniques and practices are suggested which will help carry out duties effectively. Deals with management analysi lechniques; systems analysis and systems implementation; organ
zation audits appraisal and management by objectives; work and time measurement techniques; the organization (chart), its struc ure and communications system; forms and records manage
ment; manuals and other administrative directives; work sim ment; manuals and other administrative directives; work sim
lification, techniques of work-flow and process charting; reports plification, techn
control. (CSU)

BUS 71 (3)
STATE AND LOCAL GOVERNMENT MANAGEMENT 3 Hrs. Lec.
State, county, city and special district governments explored in
terms of urban and metropolitan challenges confronting political erms of urban and metropolitan challenges confronting politica
units in California and the local vicinity, with emphasis on racial and ethnic relations, problems in provision of public services, crime and justice, planning and renewal, intergoverrmmental con
flict and relations; including a description of administration, lict and relations; including a description of administration, identification of sources of fiscal support, inventory of s
and procedures for regulation and modification. (CSU)
BUS 72 (3)
MANAGEMENT
Apraises the usefulness of fiscal mechanism, outlines the gener Ally accepted principles of organization and procedure, the rela tionships of the several fiscal functions to each other. Survey revenue, financial controls, reporting, and analysis; budge preparation, authorization, and execution; planning budgeting
system; fiscal relationships; cost analysis; and audits. (CSU)
BUS 79 (3)
3 Hrs. Lec.
(Same as Jrn 8) (CSU)
BUS 80 (3)
MEDICAL TERMINOLOGY
(Same as HT 3) (CSU)
BUS 81 (3)
2 Hrs. Lec. 2 Hrs. Lab.
(Same as HT 4) (CSU)
BUS 82 (3)
PATIENT INFORMATION SYSTEMS
2 Hrs. Lec. 2 Hrs. Lab.
Same as HT 5 )
BUS 83 (3)
MEDICAL INSURANCE
3 Hrs. Lec. 2 Hrs. Lab
(Same as HT 6) (CSU)
BUS 84 (3)
3 Hrs. Lec.
(Same as HT (CSU)
BUS 85 (2)
MANAGEMENT OF PATIENT SERVICES
2 Hrs. Lec.
(Same as HT 8) (CSU)
BUS 86 (3)
ADVANCED MEDICAL TRANSCRIPTION
2 Hrs. Lec. 2 Hrs. Lab.

## BUS 89 (3)

AW OFFICE PROCEDURES AND PRACTICES FOR SECRETARIES
3 Hrs. Lec.
Practical instruction and exercises for secretaries. Emphasis on forms of pleadings; procedures for various actions (civil) procedure, real estate, probate and conservatorships, family law);
the law library and legal research; dictation of legal documents.

## REAL ESTATE PRINCIPLES

3 Hrs. Lec.
An analysis of the principles of real estate in California; history of California real estate, property, contractors, agency, listings,
real estate financing, deeds, liens and encumbrances, escrows real estate financing, deeds, liens and encumbrances, escrows
and title insurance, land descriptions, real estate mathematics, nd real estate licensing and state regulations. (CSU)
BUS 91 (3)
REAL ESTATE PRACTICES
3 Hrs. Lec.
Prerequisite:
Prerequisite: Bus 90 or employment in the real estate field as a and conducting of a real estate business; the real estate office, and conducting of a real estate business; the real estate office,
listings, valuation of listings, prospecting, advertising, the selling process, closing the sale, financing real estate, exchanges and
specialized brokerages, income properties, property management pecialized brokerages, income properties, property managemen fessional and public relations. (CSU)
BUS 92A (3)
LEGAL ASPECTS OF REAL ESTATE
3 Hrs. Lec.
3 Hrs. Lec.
Prerequisite: Bus 90 or employment in the real estate field as a
licensee. A practical applied study of California Real Estate Law icensee. A practical applied study of California Real Estate Law arise in connection with real estate transactions. (CSU)
BUS 92B (3)
EGA
3 Hrs. Lec.
Prerequisite: Bus 92A or real estate license. This course expands the coverage of the basic course outline on this subject to include are most frequently encountered or which present so many facets hat further time is needed to consider adequately the scope and effect of applicable laws. (CSU)
BUS 93 (3)
REAL ESTATE FINANCE
3 Hrs. Lec.
Prerequisit:
Prerequisite: Bus 90 or employment in the real estate field as a
icensee. A practical applied study and analusis of money markets interest rates and real estate financing, with actual case illustra tions demonstrating lending policies, problems, and rules involved financing real property, including residential, multifamily, com mercial, and special purpose properties. (CSU)

## BUS 94A (3)

EAL ESTATE APPRAISAL
Prerequisite: Permission of the instructor or employment in the real estate field as a licensee. Methods and techniques for deter mination of loan, market, and insurance values. Case study methods are employed; field work and demonstration appraisa reports are required. Principles of real estate valuations; cost,
market data, summation and sales analysis methods of appraising are studied with an emphasis on residential properties. (CSU)

## BUS 94B (3)

REAL ESTATE APPRAISAL
Hrs. Lec.
rerequisite: Bus 94A or real estate license. This course extends he appraisal techniques of real estate appraisal and the use of the ties and interests that an appraiser might be called upon for an property, leasehold interest, business values, and the bounds of responsibility. (CSU)

## BUS 95 (3)

## REAL ESTATE ECONOMICS

Prerequisites: Bus $90,91,92 \mathrm{~A}$ and 92 B , recommended Bus 93 ,
94 A and 94 B estate designed to provical study of the economic aspects of real ditions and other factors underlying the real estate business in Caifirornia. This is designed to be the senior course - the final

## BUS 96 (3) INTRODUC <br> NTRODUCTION TO PROPERTY MANAGEMENT

This course, broad in scope, is designed to assist a professional real property manager and/or owner in the administration of income-producing real property, such as renting, leasing, and
maintenance of physical facilities. (CSU)

## CARPENTRY

## CARP 1 (3)

## APPRENTICESHIP AND MATHEMATIC <br> 2 Hrs. Lec. 2 Hrs. Lab.

Prerequisite: Permission of the instructor. This course is designed so that the apprentice will know what part to take in the conment, wages and benefits, the purpose of the heint of gover committee, and the development of carpentry mathematics skill which are necessary.
CARP 2 (3)
Hrs. Lec 2 HLOT PLANNING
2 Hrs. Lec. 2 Hrs. Lab
Prerequisite: Successful completion of Carp 1 or permission of tice to interpret and apply the building codes, the types and pur poses of pre-job planning, who is responsible for it, why it is impor tant, and where it begins. The student will also learn to read blue prints and specifications, understand surveys, property and build walls and retaining wall forms will also be covered.

## CARP 3 (3) <br> RARP 3 (3)

## Hrs. Lec. 2 Hrs. Lab

Prerequisite: Satisfactory completion of Carp 2 or permission
of the instructor. This course is designed to tor of the instructor. This course is designed to teach the studen various methods of framing, such as plot form or Western versus
Ballon Framing, materials used, limitations in building fire pre. ventions, layout procedures and how to calculate for rough openings and a study of the building codes

## CARP 4 (3)

## ROOF FRAMING

Prerequisite: Satisfactory completion of Carp 3 or permission he instructor. A course designed to cover the types and styles roofs, roof framing tools, roof design, layout of common and shed oof rafters, layout of hip, volley and jack rafters, materials and erecting roof

## CARP 5 (3)

Hrs. Lec. 2 Hrs. Lab
rerequisite: Completion of Carp 4 or permission of the instruc tor. A complete study of modern home exteriors and interiors; finishes and design will be covered. Emphasis will be on why cer
ain types of materials are used. Nomenclature and the methods of cutting and installing finishes will be studied.

CARP 6 (3)
2 Hrs. Lec. 2 Hrs. Lab
Prereq the many tsactory completion of Carp 5. The student w study the many types of stairs and stair design. The code requir

## CARP 7 (3)

## 2 Hrs. Lec. 2 Hrs. Lab.

Prerequisite: Completion of Carp 6 or permission of the instruc tor. The student will learn how to erect concrete forms and iden
tify the materials to be used, which is a very important area tify the materials to be used, which is a very important area of
study. Estimating the amount of concrete needed and how to place it will also be learned.

## CARP 8 (3)

## HEAVY TIMBER CONS

2 Hrs. Lec. 2 Hrs. Lab. tor. This course is designed Carp 7 or permission of the instruc tor. This course is designed to teach the student how to plac
timbers and secure them, usually in dams and bridges. Weldin in the areas important for the journeyman will be taught. Nomen clature of heavy timber construction will be covered.

## CHEMISTRY

CHEM 1A (5)
(CAN CHEM 2$)$ Hrs. Lec. $\mathbf{6}$ Hrs. Lab
Prerequisite: High school algebra and plane geometry or satis fictrory score on mathematics placement exam, high school chem
istry of Chem 2A. Fundamental principles and theory of atomic and molecular structure related to bonding and geometry. Study of kinetic molecular theory and the first law of thermodynamics Periodic relationships of the elements, physical states of matter,
solutions, oxidation-reduction, electrolysis and equilibrium Laboratory exercises to strengthen and illustrate concepts from ectures. (CSU, UC)
CHEM 1B (5)
GENERAL INORGANIC CHEMISTRY
(CAN CHEM 4 3 Hrs. Lec. 6 Hrs. Lab.
Prerequisite: Chem 1 A with a minimum grade of C . Detailed stud
of three laws of thermodynamics and their eactions, rates of reactions and equilibrium. Survey of selected groups from the periodic table, oxidation-reduction with respec to concentration, nuclear processes and introductory organic eactions. Laboratory exercises related CHEM 2A (4)

## CHEM 2A (4) <br> 3 Hrs. Lec. 3 Hrs. Lab

rerequisite: One year of high school algebra or its equivalent. Itended for students who have not had high school chemistry or who need further preparation for Chem 1A. The course is recom tary principles of chemistry. Not open to students who have completed Chem 1A or the equivalent. Course may be offere as a Credit class. (CSU) (UC credit limited. See a counselor.)
CHEM 5 (4)
(CAN CHEM 12)
QUANTITATIVE ANALYSIS
2 Hrs. Lec. $\mathbf{6 H r s}^{\text {Herequisite: Chab }}$
Prerequisite: Chem 1B. Theory and practice of volumetric and electrochemical methods of analysis. (Usually offered during
Summer Session) (CSU, UC)

CHEM 12 (5)

## ORGANIC CHEMISTR

3 Hrs. Lec. 6 Hrs. Lab.
special emphasis on the aliphatic compounds; includer an with duction to the aromatic compounds. Emphasis is molecular orbital concept throughout the course. (CSU, UC)

CHILD DEVELOPMENT ASSOCIAT

CDA 36 (1)
INTRODUCTION TO CHILD DEVELOPMENT
ASSO CIATE AND INITIAL ASSESSMENT
1 Hr . Lec
An overview of Child Development Associate Program which includes six competency goals and thirteen functional areas. The
student completes an initial assessment of CDA competencies.
(Same as FCE 36) (CSU) (Same as ECE 36) (CSU)
CDA 37 (3)
ENVIRONMENTAL DESIGN FOR THE EARL 2 Hrs. Lec. 8 Hrs. Lab
Prerequisite: CDA/ECE 36 . The following modules are required for completion of the course: Module A - The Preschool Child' Total Learning Environment This module is designed to help a pre school teacher provide planned, organized learning centers an environment for children. Module B. Nutrition, Health and Safety. This module is designed to develop the knowledge an skills necessary to provide a safe, healthy environment for chil
dren in the preschool center. Module C. Planned Arrangements aren in the preschool center. Module C. Planned Arrangement preschool center program through the use of lesson planning and center scheduling. (Same as ECE 37) (CSU)
CDA 38 (4)
PLANNING THE EARLY CHILDHOOD PROGRAM 3 Hrs. Lec. 8 Hrs. Lab.
Prerequisite: CDA/ECE 36 . The following modules are required
for completion of the course: Module A. Cooperative This module is designed to provide skills to the preschool teacher that will enable the teacher to facilitate planning based on chil dren's needs. Module B. Guidance Principles for Encouraging Self.Discipline. This module is designed to provide skills for the teacher that encourage self-dissipline on the part of the childre
in the classroom. Module C. Large and Small Groups. This module is designed to help the intern establish grouping pattern which are effective for the children in the center and to develop those techniques needed for smooth transitions. Module D designed to assist the intern to collect and organize teaching aids o facilitate the preschool curriculum. (Same as ECE 38) (CSU) CDA 39 (2)
OBSERVING YOUNG CHILDREN
1 Hr. Lec. 6 Hrs. Lab.
rerequisite: CDA/ECE 36 . The following modules are required or completion of the course: Module A. Techniques for Observ
ing Children. This module is designed to acquaint the intern with a number of techniques used in making observations of children Module B. Child Assessment. This module is designed to assist the intern in developing a system of assessing the children based
on observation and documentation. (Same as ECE 39) (CSU)

CDA 40 (3)
THE FAMILY AND EARLY CHILDHOOD EDUCATION 2 Hrs. Lec. 8 Hrs. Lab.
Prerequisite: CDA/ECE 36 . The following modules are required for completion of the course: Module A - Establishing Relation ships with tarents to Facilitate Communication. This module
designed to assist the intern in the acquisition of knowledge in volved in establishing relationships with parents which will lead to effective communication and cooperation between home and school. Module B - Understanding Parents' Values for Their module is designed to assist an intern to become aware of the parents' values for their children and to help the parent gain under standing about their children's needs. Module C . The Early
Childhood Program and the Community. The purpose of this Childhood Program and the Community. The purpose of this gram in relation to the community. (Same as ECE 40) (CSU)

CDA 41 (3)
ENHANCING INTELLECTUAL DEVELOPMENT IN TH 2 Hrs. Lec. 8 Hrs. Lab.
Prerequisite: $C D A / E C E 36$. The following modules are required for completion of the course: Module A. Fostering Communica tion and Language in the Early Childhood Setting. This module
is designed to help the intern understand assess and foster designed to help the intern understand, assess and foster the Beginning Mathematical Concepts. The purpose of this module is to provide the intern with concrete experiences in the areas of classification, seriation, numbering, spatial relationships and temporal relationships to assist children in beginning mathemat
cal concept acquisition. Module C. Science and Discovery. Thi module is designed to assist the intern in developisg an environ ment for discovery and encouraging the child's curiosity abou
their environment. (Same as ECE 41) (CSU)

CDA 42 (3)
ENHANCING INTELLECTUAL DEVELOPMENT IN THE EARLY CHILDHOOD SETTING II
Hrs. Lec. 8 Hrs. Lab
he following six modules 36 . The student has an option of three of Nutrition in the Early Childhood Setting The course. Module A module is to help the intern learnabout nutritionandhowe of this e information in the preschool curriculum and how to utilize ing Questioning and Problem Solving Abilities. This monhanc designed to help the intern develop an awareness of the problem solving process. Module C-Blocks in the Early Childhood Program. This module is designed to assist the intern to understand te possibilities of block play in the preschool curriculum. Module - Field Trips. This module is designed to assist the intern in
planning and implementing field trips for preschool children.
Module E . Understanding How Children Learn. This module is designed to assist the intern in understanding cognitive theory nvironment for learning. Module F. Literature for Presched Children. This module is designed to assist the intern to appre ciate and share children's literature and provide quality literature
experiences for children. (Same as ECE 42) (CSU)

CDA 43 (3
ENHANCING PERSONALITY DEVELOPMENT IN THE EARLY CHILDHOOD SETTING
Hrs. Lec. 8 Hrs. Lab.
Prerequisite: $\mathrm{CDA} / E C E$ 36. The following modules are required
for completion of the course: Module $A$. Enhancing a Positive Self-Concept. This module assists with the growth of a positive Self-Concept. This module assists with the growth of a positive
self.concept for children. Module $B$. Providing for Individual Differences. This module provides tools and technique to organize children's records and to refine observation skills that will assis Open Expression of Feelings. The purpose of this module is to eip the intern understand the steps which lead to open expres ion of feelings and to create nurturant environment. (Same a
CE 43) (CSU
CDA 44 (3)

## CHILDHOOD SETTING

Hrs. Lec. 8 Hrs. Lab
Prerequisite: CDA/ECE 36. The following modules are required or completion of the course: Module A. Music and Creativ Movement. This module is designed as a guide to incorporate
musical experiences in the classroom. Module B. Dramatic Play This module is designed to help the intern understand the value of dramatic play and how to create an environment that will enhance such play. Module C . Creative Media. This module is esigned to help the intern to learn the value of a creative media program and to incorpora
(Same as ECE 44) (CSU)
CDA 45 (2)
CDA 45 (2) EARLY CHILDHOOD SETTING 1 Hr. Lec. 6 Hrs. Lab.
Prerequisite: CDA/ECE 36. The following modules are required ment. This module is designed to assist the intern to understand he importance of gross motor development and its place in th preschool curriculum. Module B . Fine Motor Development. This module is designed to assist the intern to understand the impor curriculum. (Same as ECE 45) (CSU)
CDA 46 (3) CULTURAL NEEDS OF CHILDREN
2 Hrs. Lec. 8 Hrs. Lab.
Prerequisite: CDA/ECE 36. The following modules are required Elements of the Children's Culture into the Early Childhood Program. This module is designed to assist the intern in the plan ning and implementing of the culture of each child into the overa curriculum plan. Module B. Planning and Implementing an Effec
tive Multicultural Program. This module is designed to assist the intern in determining what the children's language needs are with regard to their first and second language and develop a program oo meet the child's needs. (Same as ECE 46) (CSU)

## CDA 47 (2)

CRAFIN THE EARLY CHILDHOOD PROGRAM 1 Hr. Lec. 6 Hrs. Lab
rerequisite: CDD/ECE 36. The student has an option of two of A - Woodworking. This module is designed to assist the intern in recognizing the value of woodworking in the curriculum. Modul B. Sewing. This module is designed to provide the intern with the knowledge and skills to make sewing an integral part of the
daily curriculum. Module C. Clay. This module is designed to
provide information about the values of clay activities in the reschool curriculum. Module D. Messy Media. This module is designed to help the intern to understand the values and impo
tance of play with messy media. (Same as ECE 47) (CSU)

## CDA 48 (3)

## ADVANCED MANAGEMENT FUNCTIONS IN THE

ADERATION MAN THE EARIY CHILDHOOD CENTER 2 Hrs. Lec. 6 Hrs. Lab.
Prerequisite: CDA/ECE 36. The following modules are required or completion of the course: Module A. Participating in Progran Evaluation. This module is designed to assist the intern to develop
skills to use in preschool program evaluation. Module B-Manage ment Functions for the Early Childhood Teacher. This module is designed to offer guidelines to assist the intern in the developmen of management functions of the center. Module C-Administra ive Functions of the Site Director. This module is designed to responsibilities, licensure, budgeting, operating policies, sta management, and program management. (Same as ECE 48 CDA 49
CHILD DEVELOPMENT ASSOCIATE PORTFOLIO 1 Hr . Lec.
Prerequisite:
Prerequisite: CDA/ECE 36 through CDA/ECE 48. The cours Portfolio. The portfolio requires proficiency in each function category within each competency area as demonstrated by written evidence or other documentation. (Same as ECE 49)
CSU)

## COSMETOLOGY

A. D.

The A.S. Degree will be awarded to graduates of cosmetolog ing program:

1. Graduate of a school of cosmetology that prepared students for a State Board of Cosmetology Examination. . Present California Cosmetologist License

Blanket credit for cosmetology courses completed Corresponds to number of Cosmetology course units in IV Cosmetology Major.)

Subject Area and General Education courses to meet require Physical Education and Mathematics, if required.
Applicants for this degree must verify items 1 and 2 of the criteri with the instructor of Cosmetology and the Dean of Vocationacedure to follow.

## COS 50A (10)

## NTRODUCTION <br> 360 Classroom Hrs COSMETOLOGY

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

PL 33 (3)
NTRODUCTION TO AUDIOLOGY
3 Hrs. Lec. 1 Hr. Lab.
This course includes an introduction to the science of hearing, fundamentals of acoustics as they apply to audiometric testing, gies causing impaired hearing, interrelationship of hearing to speech and language development, and familiarization with audio ogic assessment and clinical procedures. (CSU)
PL 34 (3)
AUDIOMETRY AND HEARING CONSERVATION 3 Hrs. Lec. 1 Hr. Lab.
Prerequisite: PL 33 recommended. This course includes identi fication audiometry, preschool hearing screening, industrial and speech-hearing therapist in the total conservation of hearing
program. (CSU) program. (CSU)
PL 35 (.5)
COMPUTER ACCESS EVALUATION
Prerequisite: A student must be eligible for services and instruc tion from Disabled Student Programs and Services through appropriate verification of a primary disability by certificate personnel and be able to benefit from the programs and services offered by the High Tech Center. This course is designed to help
students with a disability or multiple disabilities, to understand their computer usage capabilities and to determine, through an instructor evaluation, the appropriate hardware and software.
PL 36 (1)
ADAPTED KEYBOARDING
${ }^{1} \mathrm{Hr}$. Lab.
Prerequisite: A student must be eligible for services and instruc
tion from the Disabled Student Programs and Service appropriate verification of a primary disability by certificated personnel and be able to benefit from the programs and service offered by the High Tech Center. This course is designed to teach keyboarding basics to disabled students who must use adaptiv creen and/or are unable to complete successfully in mainstream typing classes.
PL 37 (3)
COMPUTER ACCESS I
2 Hrs. Lec. 2 Hrs. Lab.
Prerequisites: A student must be eligible for services and instruc tion from the Disabled Student Programs and Services throug appropriate verification of a primary disability by certificate offered by the High Tech Center. PL 36 is required if a studen does not have adequate touch typing skills (approximately 20 wpm). Designed for students with visual, physical, languag impairment, learning disabiities or deafness. This course proenhance a disabled student's ability to access and use micro computers.

## PL 38 (3) <br> COMPUTER ACCESS 2 Hrs. Lec. 2 Hrs. Lab.

Prerequisites: A student must be eligible for services and instruc tion from the Disabled Student Programs and Services through appropriate verification of a primary disability by certificated personnel and be able to benefit from the programs and service
offered by the High Tech Center. Successful completion of PL 3 or instructor approval required. This course is designed for dis or instructor approval required. This course is designed for dis Access 1. Students will enhance their computer access skill through the completion of assignments and/or projects.

PL 39 (3)
4 Hrs. Lab.
Prerequisite: A student must be eligible for services and instruc
tion from the Disabled Student Programs and Services thr tion from the Disabled Student Programs and Services throug personnel and be able to benefit from the programs and service offered by the High Tech Center. Instructor permission is re quired. The course is designed for students with a disability who equire access to specialized adaptive technologies in order to currently enrolled.
PL 40 (3)
PL 40 (3)
INTRODUCTION TO PHYSICAL THERAPY
3 Hrs. Lec.
A course dealing with the most common types of neurological an orthopedic problems and various methods of physical therap used in treatment of these problems. (CSU)
PL 41 (3)
NTRODUCTION TO OCCUPATIONAL THERAPY
An introduction to the basic philosophy, principles and tech An introduction to the basic philosophy, principles and tech
niques used in occupational therapy. This course will survey rehabilitation of specific disabilitites, facilities employing O.T.
specialists, neuromuscular integration, activities of daily living specialists, neuromuscular integration, activities of daily living
principles of self-care, personal hygiene, and transfer techniques. Activities and field trips to clinics are required. (CSU)
PL 50 (1-3)
APPLIED MATHEMATICS
1-3 Hrs. Lec.
Same as Aget 50 , Auto Tech 50, Math 50 and Weld 50)
Sirs.

## DRAMATIC ART

## DRM ART 5A (3)

 3 Hrs. Lec.The study of the history of drama and theatre development from primitive times to the present. Emphasis will be placed on the
correlation between staging and acting techniques and dramatic terature. Drm Art 5A covers theatre development through Ibsen. CSU, UC)
DRM ART 5B (3)
HISTORY OF WORLD DRAMA
3 Hrs. Lec.
Covers the period from Ibsen to the present. Drm Art 5B may be
DRM ART 20AB (3-3)
UNDAMENTALS OF ACTING
An introduction to the interpretation of drama through the art o the actor. Development of individual insights, skills, and disci plines in the presentation of the dramatic material to an audience aboratory hours to be arranged. (CSU) (UC creditlimited. See

DRM ART 21 (3)
2 Hrs. Lec. 3 Hrs. Lab
Prerequisite: Drm Art 20AB. A continuation of Drm Art 20AB with further emphasis on fundamental acting skills. Laboratory hour
to be arranged. (CSU) (UC credit limited. See a counselor)

DRM ART 22ABCD (1-1-1-1)
D PERFORMANCE
Prerequisite: Permission of the instructor. Enrollment contingen upon participation in campus major dramatic production. Max mum credit 1 unit per semester for four semesters. Hours to b
arranged. (CSU) (UC credit limited. See a counselor.)

EARLY CHILDHOOD EDUCATION

ECE 4 (3)
ILINGUAL-MULTICULTURAL CURRICULUM AND Hrs. Lec.
(Same as TA 4) (CSU
ECE 6 (3)
ANGUAGE DEVELOPMENT FOR YOUNG CHILDREN ${ }_{\text {3 Hrs. Lec. }}{ }^{\text {(Same as TA 6) (CSU) }}$

ECE 8 (3)
3 Hrs. Lec.
(Same as TA 8) (CSU)
ECE 20 (3)
IENTAL PSYCHOLOGY OF CHIIDREN
Hrs. Lec. through adolescence including the principle theories of develop ment and their application. (Same as Psych 20) (CSU) (UC credi limited. See a counselor.)

## ECE 21 (3)

ARLY CHILDHOOD SOCIALIZATION: CHILDREN
3 Hrs. Lec.
Dynamics of the process of socialization of the child; influences of family, school and community on self-concept development. Family cultural differences are investigated and community resources are explored. (Same as Psych 21) (CSU)
ECE 22 (3)
(CAN H EC 14)
ND
3 Hrs. Lec
Advanced study of the principle theories of developmental psychology, inclucing the study of assessment and observatio tools for underst

ECE 23 (3)
CHILDHOOD CURRICULUM
3 Hrs. Lec.
A study of preschool curriculum and its application in the pre chool environment. Students will learn to develop and write curriculum plans which incorporate developmental goals. Imple

## ECE 24 (3)

CHILDHOOD CURRICULUM
Hrs. Lec.
ddvanced study and application of the preschool curriculum incluaing techniques for enriching the preschool environmen or creative expression. The value of play as an integral part of
the preschool program and the use of interest centers and multithe preschool program and the use of intere

ECE 25 (3)
Prerequisites: ECE/Psych 20, 21, 22 and 23 AB . Supervised fiel work in an early childhood program under the direction of Master Teacher and college supervisor. The students will lear assess, develop and implement preschool curriculum in a super vised setting. (CSU)

## ECE 26 (3)

## LES OF PARENTING

his course is designed to provide parents and parents.to-be with practical down-to-earth methods of being good parents. While it is based on sound psychological principles, its content will not n aspects of sound parenthood. (Same as Psych 26) (CSU) ECE 27 (3)

ITANDING EXCEPTIONAL STUDENT Hrs. Lec. 2 Hrs. Lab.

27/PL 1) (CSU)
ECE 28 (3)
EDMIIISTRATION AND SUPERVIS
Prerequisites: ECE 20, 21, 22, 23, 24, 25. Application of basic management principles in preschools including State regulations funding, budget preparation and policy writing. A director's maintenance. Parent involvement, community cooperation ram evaluation and assessment methods will be studied. (CSU) CE 33 (1)
YSTEMATIC TRAINING FOR EFFECTIVE PARENTING (STEP)
Hr. Lec. sood parent-child relationships. The classes will deal with norma hallenges to typical parents. Students will learn basic demo atic responsibility. Students will observe children and practice he basic skills necessary for effective parenting. (CSU)
ECE 34 (3)
FFANT/TODDLER DEVELOPMENT 3 Hrs. Lec.
This course will cover the fundamental princples of prenatal and infant development from conception to age two. Emphasis is level of the child based upon the student's understanding of infant oddler development. The course is designed for caregivers and parents. (CSU)
ECE 36 (1)
NTRODUCTION TO CHILD DEVELOPMENT
SSOCIATE AND INITIAL ASSESSMENT
Hr. Lec.
ECE 37 (3) CHILDHOOD CENTER 2 Hrs. Lec. 8 Hrs. Lab.
(Same as CDA 37) (CSU)

ECE 38 (4) Hrs. Lec. 8 Hrs. Lab

ECE 39 (2)
1 Hr. Lec. 6 Hrs. Lab.
(Same as CDA 39) (CSU)
ECE 40 (3)
THE FAMILY AND EARLY CHILDHOOD EDUCATION 2 Hrs. Lec. 8 Hrs. Lab.
ECE 41 (3)
NHANCING INTELLECTUAL DEVELOPMENT IN THE ARLY CHILDHOOD SEITING
2 Hame as CDA 41) (CSU)
ECE 42 (3)
ENE 42 (3) EARLY CHILDHOOD SETTING II
${ }_{\text {2 }}^{2}$ Hrs. Lec. 8 Hrs. Lab. as CDA 42) (CSU)
ECE 43 (3)
ENHANCING PERSONALITY DEVELOPMENT IN THE EARLY CHILDHOOD SETTING
2 Hrs. Lec. 8 Hrs. Lab.
ECE 44 (3)
CREATIVE EXPRESSION IN THE EARLY
CHILDHOOD SETTING
2 Hrs. Lec. 8 Hrs. Lab.
(Same as CDA 44) (CSU)
ECE 45 (2)
NHANCING PHYSICAL DEVELOPMENT IN THE EARLY CHILDHOOD SETTING
Hr. Lec. 6 Hrs. Lab.
ECE 46 (3)
MEE 46 (3)
CULTURAL NEEDS OF CHILDREN
2 Hrs. Lec. 8 Hrs. Lab.
(Same as CDA 46) (CSU)

## ECE 47 (2)

CRAFTS IN THE EARLY CHILDHOOD PROGRAM 1 Hr. Lec. 6 Hrs. Lab.
(Same as CDA 47) (CSU)
ECE 48 (3)
OPERATION OF TAGEMENT FUNCTIONS IN THE 2 Hrs. Lec. 6 Hrs. Lab.

CHILD DEVELOPMENT ASSOCIATE PORTFOLIO 1 Hr Lec.
(Same as CDA 49) (CSU)

## ECONOMICS

ECON 1 (3)
(CAN ECON 2) 3 Hrs. Lec. Hrs. Lec. economic analysis. Emphasic concepts and the principles of economic analysis. Emphasis on economic institutions, issues of
public policy, and macroanalysis in national income, money and
banking, and economic stabilization. (CSU, UC)

## ECON $2(3)$

PRINCIPLE
3 Hrs. Lec.
An introduction to economic concepts and principles of economic analysis. Emphasis on economic institutions, issues of public policy, and microanalysis in the direction of production and the
allocation of resources through the price-system. (CSU, UC)

EDUCATION

## ED 1 (2)

INTRODUCTION TO EDUCATION
1 Hr . Lec. 3 Hrs. Lab.
Recommended for students interested in a teaching credential. Opportunity to explore specific grade levels through weekly Gives broad overview of the varied aspects of teaching. (CSU)

## 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 electricity and electronics.
Basic theory of the physical phenomena involved in the use and Basic theory of the physical phenomena involved in the use and
selection of various electrical components, instruments and cir
cuits is presented in the lecture Practical cuits is presented in the lecture. Practical experiments demon trating this theory are performed in the lab. (CSU)

ELECTRONICS

ELECTRONICS 1A (4)
BASIC ELEC H
Prerequisites: Electricity 1 or Physics 2 B or Physics 4 B or permis sion of the instructor. Course covers the fundamental character istics of transistors and diodes; linear amplifiers and single stage
amplifiers; and elementary integrated circuits. (CSUU)
ELECTRONICS 1B (3)
ELECTRONICS ASSEMBLY AND FABRICATION 2Lrs. Lec. 3 Hrs. Lab.
Prerequisite: Electronics 1 A . A course to familiarize the electron Prerequisite: Electronics 1A. A course to familiarize the electron-
ics student with the tools, hardware and procedures used in the assembly and fabrication of electronics systems. (CSU)
ELECTRONICS 2 (4)
TRANSISTORS AND SEMICONDUCTORS 3 Hrs. Lec. 3 Hrs. Lab
Prerequisite: Electronics 1A. Study of the semiconductor devices and circuits with application of fundamental network theorem electronic circuits and propogation. (CSU)
ELECTRONICS 5 (3)
PRACTICAL DIGITAL ELECTRONICS
Prerequisite: Electronics 2. Theory and application of switching networks and nonlinear solid-state systems, includes circuits,

EMERGENCY MEDICAL TECHNICIAN

EMT 1/A/AD (5.5)
EMERGENCY MEDICAL TECHNICIAN 1/AMBULANCE 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 pr
marily for ambulance attendants, the course would be of assistance to all emergency service personnel in law enforcement fire fighting, hospital emergency rooms and rescue units. Topic considered will include the role and responsibilities of the Emer gency Medical Technician, medicallegal responsibilities and
community resources for health and social care Students will be laught to evaluate diagnositc signs and determine the extent injuries. Procedures for dealing with life threatening emergencie are presented: pulmonary and cardiopulmonary resuscitation, control of hemorrhage. Other medical and environmental prob considered. Students will receive clinical laboratory experience in hospital emergency rooms and on ambulance calls. The course is approved by the California Department of Health for EM pletion of courses: 87 Hrs. Lec. (five hours weekly); and 30 Hrs . ab. (CSU)

EMT 1A/(R)/AD (1.5)
EMERGENCY MEDICAL TECHNICIAN 1/AMBULANCE 5 ERESHER
Prerequisites: EMT 1/A and current CPR certification. A course or individuals whose EMT 1/A course completion certificates wil expire within the next six months (certification may not be expired more than twelve months). The course will review life suppor gency medical equipment and supplies. Specific problems re ated to Imperial County will be discussed. Thirty-six hours required for completion of course: 28 Hrs. Lec. 88 Hrs . Lab. (CSU)

EMT 1/FS (5)
EMT 1/FS (5) 5 Hrs. Lec. 1 Hr. Lab.
A course to prepare fire service personnel to render prehospital tion, to sick and injured, persons under field emergency resusita ions. Preparation of the patient for transport is covereded however actual transportation of patients in ambulances is not covered Certification as an EMT $1 / \mathrm{A}$ is required by law to work on an ambulance in California. EMT 1/FS certification does not mee bilities of the EMT, medico-legal aspects of emergency care, and patient evaluation. Students will learn how to take and evaluate vital signs, medical history, and field physical exam. Procedures rol of hemorrhage, childbirth, stroke wies are presented. Con included. This course is approved by the State Board of Fire Ser vices. One hundred five hours required for completion of course

EMT 1/FS(R) (1)
MERGENCY MEDICAL TECHNICIAN 1/FIRE SCIENC REFRESHER
1.1 Hrs. Lec. 3 Hr. Lab.
Prerequisite: Certification as a California EMT 1 or EMT 1/FS or EMT 1/PS which will expire in the next six months or has see
expired less than tweive months. This is a recertification cours for persons who hold a California EMT 1/A, EMT 1/FS or EM 1/PS which will expire in the next six months or has expired within the last twelve months. The student will review material covered
in the EMT 1 course. including field patient evaluation cardio pulmonary resuscitation, airway maintenance, oxygen therapy shock, hemorrhage, application of dressings, bandages and splints, immobilization techniques, extrication, lifting and moving techniques, emergency incident management, triage, and emer medical services will be included. Students intending to work on an ambulance must recertify as an EMT 1/A, which is a differen course. Twenty-six hours required for completion of course: 20 Hrs. Lec.; 6 Hrs. Lab. (CSU)

## EMT 2/A (7)

NCY MEDICAL TECHNICIAN 2/A Hrs. Lec. 3 Hrs. Lab
rerequisite: Have a valid California Emergency Medical Techn eian 1 (1/A, FS, PS, or CHP) Certificate. Have one year experi Coordinator. Successful. completion of application packet. ourse designed to teach professional public safety personne limited advanced life support skills. The course will teach the student to treat critically ill and injured patients in the prehospita setting using all the basic life support skills learned in EMT 1, and suit application, and esophageal intubation. The course is a intensive one, requiring the student's total dedication to success ful completion of the course, and the realization that more than sual study and TBA requirements must be met. (CSU)

## EMT 2/B (5)

MERGENCY MEDICAL TECHNICIAN $2 /$ B 3 Hrs. Lec. 6 Hrs. Lab
continuation of EMT completion of EMT 2/A. This course is public safety personnel limited advanced life support skills no covered in EMT 2/A. It enatles the student to put all laboratory and didactic materials together in clinical and field experiences.
The student will be able to perform total patient assessment and care, using state and county guidelines for limited advanced life upport systems. Students must be aware of the intensity of the ourse that requires dedication to complete all clinical and field xperiences. In addition to class and clinical time, students mus complete the course. (CSU)
EMT 2(R)/AD (2)
MERGENCY MEDICAL TECHNICIAN 2/REFRESHER 2 Hrs. Lec.
rerequisite: Have a valid California Emergency Medical Techni cian 2 Certificate. A course designed for the active EMT 2 who wishes to recertify for another two-year period. This course wil he State of California Administrative Code, Title 22 . Socia Security, Division 9 . Prehospital Emergency Medical Services,
Chapter 3 . Emergency Medical Technician 2. The ourse is an Chapter 3 . Emergency Medical Technician 2. The course is an or successful completion and the realization that more study and TBA requirements must be met.

## EC EMT 10 (2) OI MEDICAL TECHNICIAN .

EIRSTGENCY MED
FISSONDER

## ${ }_{2}^{2} \mathrm{Hrs}$. . Lec.

A course for individuals who must provide first aid, including recognition of and immediate care for iniury or sudden ill 1 ess or
medical emergencies, prior to the availability of medical care medical emergencies, prior to the avaiabiitity of medical care by
licensed or certified heath care professionals. This course is
俍 primarily for firefighters and law enforcement personnel and
stitisies requirements under Tite 22 Division satisfies reauirements under Titte 22 , Division 9 , Section 1.5 of
the California Administrative Code, requiring regularly employed public saffety personnelt to be trained to administer first aid, including CPRR, within 1 year of employment. Topics considered dill
include components of the local EMS system roles and responsiinclude components of the local EMS system, roles and responsi-
bilities of first responders, introduction to logal aspects with biltities of first responders, introduction to legal aspects with
introduction to anatomy and physiology. Students sill be taught an introduction to vital and diagnostic signs and determination of extent of iniuries. Procedures for dealing with lifetetrminatenion emergencies are erresented, as they yertain to the first responder,
including CPR and contro of hemorthage Other medical and environmental emergencies will be presented along with childbirth, disorders specific to infants and children and communicable diseases. 36 hours are required for course completion.

ENGINEERING
ENGR 2A (3)
engineering drawing
$11 /$ Hrs. Lec. $41 / 2$ Hrs. Lab.

 See a counselor.)
ENGR 5 (3)
STRENGTH
3 Hrs. Lec. Materials
Prerequisitit: Engr 15. Axial stress; stress and strain relations; torsional stress and defiormatios; shear and moment diagrams; tion of stressess; failure theory;; deflecetion of beams; bucklinastatically indeeterminate structures. (CSU) (UC credit limited. See a counselor.)

## ENGR 6 (3)

## NG MATERIALS

Prerequisite: Chem 1A. Atomic and molecular structure of mater ials utilized in engineering. Analysis of the relationships betwee structure of materials and their mechanical, thermal, electrical, corrosion and radiation properties, together with examples of
specific applicaiton to engineering problems. (CSU) (UC credit specitic applicaiton to engin
limited. See a counselor.)

## ENGR 11 (3)

ELECTRIC CIRCUITS
Prerequisite: Credit or concurrent enrollment in Phys 4 B and Math 3B. Circuit analysis by reduction methods, source transforimpedance, power and phasor diagrams. (CSU) (UC credit limited. See a counselor.)

## ENGR 12 (3)

## ARCHITECTURAL DRAFTING I

1 Hr. Lec. 5 Hrs. Lab.
Prerequisite: Engr 2A 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 plan; basic techniques and procedures needed in preparing architectural flocor plans, foundation plans and pictoriaid drawings; local building regulations and California Building Code. (CSU)
ENGR 13 (3)
ARCHITECTURAL DRAFTING II
1 Hr. Lec. 5 Hrs. Lab
Prerequisite: Engr 12 or equivalent. Technical architectural resi-
dential designincluding location dential design including location plans, sectional drawings, founda-
tion plans of various types, framing plans, specifications, electrical and air-conditioning plans, plumbing diagrams and modular con
struction plans, building struction plans, building codes. History of architecture. (CSU) ENGR 14 (3)
ARCHITECTUURAL DRAWING III
1 Hr. Lec. 5 Hrs. Lab
Prerequisite: Ens ${ }^{13}$
Prerequisite: Engr 13 or equivalent. Working drawings for small
commercial buildings. Planning merchandising commercial buildings. Planning merchandising facilities: banks, motels and parking facilities, shoppping centers, churches. Cur tainwall systems. Uniform Building Code. Modern American

ENGR 15 (3)
3 Hrs. Lec
Prerequisite: Phys 4A or concurrent enrollment in Phys 4A. Force systems; equilibrium; structures; distributed forces; friction; virtual work; moments of inertia; vector algebra. (CSU) (UC
credit limited. See a counselor.)
ENGR 16 (3)
3 Hrs. Lec.
Prerequisite: Engr 15. Kinetics of a particle; central force motion systems of particles; work and energy; impulse and momentum moments and products of inertia; Euler's equations of motion vibration and time response; engine
(UC credit limited. See a counselor.)

## ENGR 19 (6)

YNAMIC
Prerequisite: Phys 4A. This course is a combination of Engr 15 and Engr 16. (CSU) (UC credit limited. See a counselor.)

## ENGR 21 (3)

TECHNICAL DRAWING
A general course for students who have had no high school mechanical drawing. Covers proper use of drafting instruments, geometric constructions, lettering, orthographic projections, pictorial representations, isometric drawings, dimensions, and
symbols. ,
ENGR 23 (1)
CALCULATORS AND COMPUTATIONS
Prerequisite: Completion of Math X. Performing necessary Prerequisite: Completion of Math X. Performing necessary
maniupulations with the calculator, while using correct methods
to solve engineering and technical problems. (CSU)
ENGR 30 (2)
ORIENTATION TO ENGINEERING ${ }_{2}^{2 \text { Hrs. Lec. }}$
Helping the engineering student adjust to college life through
motivating experiences and guidance, clarifying concepts of the motivaing experiences and guidance, clarifying concepts of the engineering colege and the engineering profession, and aiding the
student in acquiring the fundamental tools and skills required
in future work. (CSU) (UC credit limited. See a counselor.)

## ENGLISH

## New Students

The Nelson-Denny Reading Test will be required of all new students who desire to register for their initial reading or writing class The test is administered in the Counseling Center and in the Reading/Writing Lab.
Students will be recommended to initially register in a reading class and writing class for tentative enrollment prior to placement esting.

| Nelson-Denny <br> Reading | Writing Class(es) <br> Initial Placement |  |
| :---: | :---: | :---: |
| Below | $6.0^{*}$ | Eng 4 |
| 6.0 | 8.9 | Eng 3A |
| 9.0 | 13.9 | Eng 2A |
| 14.0 | 16.9 | Eng 1A |
| "grade equivalency |  |  |
| Nelson-Denny |  |  |
| Reading Class(es) |  |  |
| Reading Scores | Initial Placement |  |
| 3.6 | $6.0^{*}$ | Eng 14A |
| 6.0 | 8.9 | En 13A |
| 9.0 | 11.9 | Eng 12A |
| 12.0 | 16.9 | Eng 11 |
| *grade equivalency |  |  |

During the first two weeks of classes, students will be given an dilitios. The results of this writing test will help determine the final placement of students in the writing classes.
Students wishing clarification of their placement evaluation may discuss the
tudents Previously Completing Reading or
Writing Classes
Students who receive a grade of " $C$ " or higher in any of the reading in the sequence; for example, students completing Eng 3A with a C" or better are moved to Eng 3B; those completing Eng 2A with "C" or better will be moved to Eng 2B. Students receiving les the next level.
Other Recommendations
New students should consult an Imperial Valley College Coun selor for assistance in understanding the placement procedure
prior to registering in the reading or writing classes.

Concurrent enroilment in reading and writing classes is highly recommended.

ENG 1A (3)
3 Hrs. Lec.
Prerequisite: Satisfactory score on reading and writing placement lests and instructor recommendation. The standard course in
freshman English. The course seeks to improve the student's ability to understand serious and complex prose and to improve the student's ability to write exposition that is thoughtful and

ENG 1B (3)

## NTRODUCTION TO LITERATURE

3 Hrs. Lec
atroduction to the study of poetry, fiction and drama, with fur her practice in writing. It is recommended that the student take ENG 2A (3)
BASIC EN
3 Hrs. Lec.
Prerequisite:
Prerequisite: Assignment by placement test and instructor recom
mendation. Preparation for Eng 2B. Provides developmenta mendation. Preparation for Eng 2B. Provides developmental
instruction in paragraph and short essay writing and in reading comprehension and analysis approaching the college level. The course follows in sequence from Eng 3B and is taught simultan ously with Eng 2B. Concurrent enrollment in Eng 12A is strongl ecommended.
ENG 2B (3)
ASI ENGUSH COMPOSITION
Hrs. Lec.
Prerequisite: Assignment by placement test and instructor recom Prerequisite: Assignment by placement test and instructor recom
mendation. Preparation for Eng 1A. The course seeks to improve
the student's mastery of the short the student's mastery of the short essay and to teach reading
comprehension and analysis at the college level. The curse comprehension and analysis at the college level. The cours Eng 2A. Concurrent enrollment in Eng 12B is strongly recommended. (CSU)

## ENG 3A (3)

3 Hrs. Lec.
Hrerequisite: Assignment by placement test and instructor recom mendation. Preparation for Eng 3B. Intensive instruction in
grammar and punctuation and the writing of short paragraphs. grammar and punctuation and the writing of short paragraphs
Designed for the student needing to acquire basic writing skills and to overcome language transfer interference. Follows in sequence from Ens 4. Taught simultaneously with Eng 3B. Con

## ENG 3B (3) <br> ENG 3B (3)

## 3 Hrs. Lec.

Prerequisite: Assignment by placement test and instructor recommendation. Preparation for Eng 2A or Eng 51. A review of gram
mar and punctuation and instruction in the writing of paragraphs mar and punctuation and instruction in the writing of paragraphs
and topic sentences. Designed for the student needing to review basic writing skills. The course follows in sequence from, and is aught simultaneously with, Eng 3A. Concurrent enrollment in ENG 4A (4)
ENG 4A (4) $\quad$ ADVANCED GRAMMAR AND COMPOSITION FOR BILINGUALS
4 Hrs. Lec. 1 Hr Lab.
4 Hrs. Lec. 1 Hr. Lab.
Prerequisite: Satisfactory completion of Eng 5 or Eng 5Bor appro
priate score on ESL Placement Test. Advanced composition and priate score on ESL Placement Test. Advanced composition and qualifies the student for enrollment in Eng 4B. (CSU) (UC credi limited. See a counselor.)
ENG 4B (3)
THE WRITING PROCESS FOR BILINGUALS
Prerequisite: Completion of Eng 4A or teacher recommendation The Wristite: Completion of Eng 4A or teacher recommendation Bilinguals would be based on small group and individual instruction using lessons for prewriting, braintorming, and listing; rough draft read-arounds and peer-editing eview of grammar, mechanics, and usage; vocabulary, spelling,
nd format protocol; journal writing; and small and large group and format protocol; journal writing; and small and large group completion of this course qualifies the student for enrollment in

## ENG 5 (4)

IATE GRAMMAR AND COMPOSITION
Hrs. Lec. 1 Hr. Lab
Prerequisite: Appropriate score on placement test or satisfactory completion of Eng 6. Eng 5 is an intermediate course in grammar and past tense usage to more complicated grammatical strucand past tense usage to more complicated grammatical struc tures. Basic skills for simple compositions in Eng

ENG 5A (2)
NTERMEDIATE GRAMMAR AND COMPOSITION OR ESL
2 Hrs. Lec. $1 / 2$ Hr. Lab.
Prerequisite: Designated score on placement test or satisfactory Prerequisite: Designated score on placement test or satisfactory
completion of Eng 6 B . The course covers the first half semester's work of Eng 5 (4 units) and is offered for the convenience of night tudents who cannot attend class more than one night per week. This course, together with Eng 5B, is equivalent to Eng 5. Not open
students who have completed Eng 5. (CSU) (UC credit limited. See a counselor.)
ENG 5B (2)
NTERMEDIATE GRAMMAR AND COMPOSITION FOR ESL
2 Hrs. Lec. $1 / 2 \mathrm{Hr}$. Lab.
tory completion of Eng 5A. This course overs the second half semester's work of Eng 5 (4 units) and is lass more than one night per week. Satisfactory canpletion of Eng 5 A and 5 B is equivalent to Eng 5 and qualifies the student to enroll in Eng 4 or Eng 4A. Not open to students who have c
pleted Eng 5. (CSU) (UC credit limited. See a counselor.)

ENG 6 (4) 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 ormal English classes in the United States. The course will cover tion will be emphasized through some beginning composition writing in the latter part of the semester. (CSU)
ENG 6A (2)
BEGINNING GRAMMAR AND COMPOSITION FOR ESL ${ }_{2}^{2} \mathrm{Hrs}$. Lec. $1 / 2 \mathrm{Hr}$. Lab.
Prerequisite: Designated score on placement test or permission
of the instructor This of the instructor. This course covers the first half semester's work
of Eng 6 (4 units) and is offered for the convenience dents who cannot attend class more than one night per week. This course will emphasize vocabulary building, conversational skills and listening comprehension. This course, together with completed Eng 6. (CSU)

## ENG 6B (2)

EGINNING GRAMMAR AND COMPOSITION FOR ESL 2 Hrs. Lec. $1 / 2 \mathrm{Hr}$. Lab.
revequisite: Eng 6A or permission of the instructor. This course
covers the second half seme overs the second half semester's work of Eng 6 (4 units) and is class more than one night per week. Satisfactory cannot attend Eng 6A and 6 B is the equivalent to Eng 6 and qualifies the student to enroll in Eng 5 or Eng 5A. Not open to students who have completed Eng 6. (CSU)

## ENG 7 (4)

4 Hrs. ESL/CIVICS
Prerequisite: Designated score on placement test. A course de signed for nonnative speakers who have no knowledge of English and whose literacy in their native language is minimal. Basic
English will give students the necessary literacy skills to enter Eng 6 and further an awareness for civic responsibility.
ENG 11 (3)
and Critical reading 3 Hrs. Lec. *1 Hr. Lab.
Prerequisite: Successful completion of Eng 12B and/or ability to read at the 12 th grade level. Designed to help adequate readers become superior readers. Recommended for college transfer stu-
dents who wish to develop the critical reading and thinking skills dents who wish to develop the critical reading and thinking skills to be scheduled in the Reading/Writing Lab. (CSU)
ENG 12A (3)
ENG 12A (3) 3 Hrs Lec. ${ }^{*} 1 \mathrm{Hr}$ Lab.
Prerequitie.
Prerequisite: Successful completion of Ens 13B and/or the ability to read at the 9 th grade level. A course at the upper intermediate
reading level designed to refine those skills designated in Eng reading level designed to refine those skills designated in Eng
$13 \mathrm{~A} / 13 \mathrm{~B}$. Includes additional instruction in study skills, outlining, previewing, summarizing and critical reading. *Laboratory hour
to be scheduld in the Reading/Writing Lab.
ENG 12B (3)
ENG 12B (3) ${ }^{\text {READING III: INTERMEDIATE DEVELOPMENT }}$ 3 Hrs. Lec. *1 Hr. Lab.
Prerequisite: Successful completion of Eng 12A and/or the ability to read at the 10 th grade level. A course at the upper intermediate reading level for those students needing additional instruction and
practice in practice in study skills, outlining, previewing, summarizing and
critical reading as critical reading as taught in Eng 12A. *Laboratory hour to be ENG 13A (3)
ENG 13A (3)
${ }^{3} \mathbf{~ H r s s . ~ L e c . ~}{ }^{*}{ }^{1} \mathrm{Hr}$. Lab.
Prerequisite: Successful completion of Eng 14B and/or the ability to read at the 6 th grade level. A course at the lower intermediate level for the student needing intensive instruction in comprehen-
sion, vocabulary and study skills. Emphasis will be on fundamental understanding of texts, and increasing word knowledge. *Lab. oratory hour to be scheduled in the Reading/Writing Lab.
ENG 13B (3)
READING II: BASIC DEVELOPMENT
3 Hrs. Lec. *1 Hr. Lab.
Prerequisite: Successful completion of Eng 13A with reading
scores below scores below the required level for Eng 12A (grade 9). A course
at the lower intermediate level for the student needing additional instruction in comprehension, vocabulary and study skills. Emphasis will be on fundamental understanding of texts, and increasing word knowledge. *Laboratory hour to be scheduled in the

ENG 14A (3)
READING I: DEVELOPMENT FOR BILINGUALS
3 Hrs. Lec. *1 Hr. Lab.
Prerequisite: Reading level below the 6th grade. Assignment by
placement test and recommendation placement test and recommendation of the instructor. Course
designed to Phonics comprehension, word analysis, vocabulary building will
pe incting eficiency of bilinual stedents. be included, as well as those study skills directly related to read-
ing. *Laboratory hour to be scheduled in the Reading/Writing

ENG 14B (3) 3 Hrs. Lec. ${ }^{1}$ Hr. Lab
Hrs. Lec. 1 Hr. Lab. scores below the required level for Eng 13A (grade 6). Cours designed to develop reading efficiency of bilingual students. Phonics comprehension, word analysis, vocabulary building wil $e$ included, as well as those study skills directly related to read

## ENG 22AB (3-3)

Hrs. Lec.
A concentrated study of affixes, roots, word origins, language hange, varieties of meaning, the dictionary, and vocabulary in change, varieties of mea

ADG 24 (3) PPELLING FOR ESI
3 Hrs. Lec.
Prerequisite: Eng 25, Eng 5 or by consent of instructor. The stu Prerequisite: Eng 25, Ens 5 or by consent of instructor. The stu-
dent will work on English-Spanish cognates, roots and prefixes, dioms, general reading vocabulary, subject matter (e.g., psychology, history), reading vocabulary, parts of speech, dictionary The emphasis will be on writing and listening more than on ora work, and on independent vocabulary building as well as on group work.

ENG 25 (3)
NTERMEDIATE VOCABULARY BUILDING AND SPELLING FOR ESL
3 Hrs. Lec.
Prerequisite: Eng 5 concurrently or consent of instructor. The rerequisite: Eng 5 concurrently or consent of instructor. The
intermediate ESL student will work on roots and prefixes, idioms spelling, pronunciation, parts of speech, irregular verbs, and the earning of new words. A lot of class practice will be given in or nd written use of new words and expressions.

## ENG 26 (3)

BEGINNING VOCABULARY BUILDING AND
SPELLING FOR ESL
3 Hrs. Lec.
Prerequisite: This course may be taken concurrently with Eng 6 or by permission of the instructor. A beginning level of vocabulary
will be offered. Some spelling techniques will be taught and vocab ulary will be used both in oral and written sentences.

## ENG 32 (3)

ENG 32 (3) ) PUBLIC SPEAKING FOR BILINGUALS 3 Hrs. Lec.
Prerequisite: Eng 33 with Cor better, or permission of the instrucor. This courss is designed to bring Eng 33 bilingual students toa
near native level of fluency and listening comprehension so that hey may successfully compete with native speakers. Students will prepare, present and evaluate activities such as speeches ral interpretations, interviews, reports, debates, and simulaion games. Emphasis will be given to use of the library to pro significance. Recommended for students concurrently enrolled in Eng 2 AB and Eng 12 AB . May be taken as a preparation bu

ENG 33 (3)

## ASIC PUBLIC SPEAKING FOR BILINGUALS

Hrs. Lec. En 34 or permission of the instructor. This course designed to bring advanced ESL. students to a near-native leve of fluency and listening comprehension so that they may success ully compete with native speakers. Students will prepare, presen ations, debates and simulation games. (This course may be take a a preparation but not as a substitute for Sp 1 ) (CSU) (UC credi mited. See a counselor.)

## ENG 34 (3)

## ADVANCED ORAL ENGLISH FOR ESL

Hrs. Lec. To be taken concurrently with Eng 4 or by permis sion of the instructor. An intensive course in oral American sion of the instructor. An intensive course in oral American uage. It is intended for students who may read well and have a ood grasp of grammar but who still need more practice in manipulating oral structures. (CSU)
ENG 35 (3)

## ENGLISH FOR ESL

rerequisite: To be taken concurrently with Eng 5 or by permis Prerequisite: To be taken concurrenty wintructor. A conversational course designed for the
sion the intermediate student of ESL. Students will utilize oral English by creating their own dialogs and presenting them, and by speaking
on posters or other visual materials. Differences between the on posters or other visual materials. Differences between the
students' native language and English and how these differences affect the students' oral English will be discussed. (CSU)

## ENG 36 (3)

EGINNING ORAL ENGLISH FOR ESI
3 Hrs. Lec. Lo be taken concurrently with Eng 6 or by permis Prerequisite: To be taken concurrently with Eng 6 or by permis
sion of the instructor. A conversational course designed for the beginning ESL student. The course will cover the fundamentals of the English sound system. Listening and speaking will be empha
sized through basic dialogs to be learned, through simple stories oo be listened to, and through questions to be answered orally (CSU)

ENG 41 (3)
EURVEY OF AMERICAN LITERATURE
3 Hirs. Lec.
Prerequisite: Eng 1B is recommended. A study of the works of rajor American writers. (CSU, UC)

## ENG 42A (3)

URVEY OF WORLD LITERATURE
3 Hrs. Lec. Pre 1 B is recommended. Study of selected literature of the Hebrews, Greeks, Romans, the Middle Ages, and th Renaissance. Emphasis on literature other than American and nglish. (CSU, UC)

## ENG 42B (3)

URVEY OF WORID ITERATURE
3 Hrs. Lec.
Prerequisite: Eng 1B is recommended. Study of selected literature Neo-classicism, Romanticism, Naturalism, Symbolism and English. May be taken before Eng 42 . (CSU,

ENG 43A (3)
(CAN ENGL 8)
Prerequisite: Eng 1B or permission of the instructor. Close study with consideration of the more important aspects of English literary history. (CSU, UC)
ENG 43B (3)
SURVEY OF ENGLISH LITERATURE (CAN ENGL 10) 3 Hrs. Lec.
Prerequisite: Same as for Eng 43A. Close study of works of major English writers of the 19th and 20th centuries, with consideration
of the more important aspects of English literary history. May be of tak more important aspects of En
taken before Eng 43A. (CSU, UC)
ENG 44ABCD (3-3-3-3)
ITTERATURE FOR APPRECIATION
3 Hrs. Lec.
Prerequisite:
Prerequisite: Completion of Eng 3A or 13A or the equivalent. A cation course designed to encourage students to read for enjo ment and for an increased understanding of themselves and the world they live in. Students will read short stories, novels, plays, poetry and some nonfiction on certain themes, e.s., youth, love,
horror, fantasy, the hero, the West. Oral participation will be emphasized and some writing will be required. Guest lecturers, films, and field trips will be included whenever possible. Cours

ENG 45ABCD (3-3-3-3)
3 Hrs. Lec.
Examination of representative literary works of a major autho
3 period, genre, or theme; or comparative study of literature and another field, e.g., film, theater, art, music, politics, social or behavioral science. Topids, such as Modern Poetry, Moder Prose, Fiction, Modern Drama, Classic Theater, Introduction to
Shakespeare, Film and Literature, The Bible as Literature, Muth ology and Folklore. May be repeated with different content. (CSU UC credit limited. See a counselor.)
ENG 46A (3)
Hrs. Lec
3 Hrs. Lec.
Prerequisite: Eligibility for Eng 1A. Study of the contributions by oped through the study of the Mexican American historical back grounds, and by contrasting and comparing the works of Mexican Americans with their familiar Anglo American counterparts, a well as with the works of familiar Mexican authors. This cours can American. Conducted in English. (Same as Span 28A (CSU, UC)
ENG 46B (3)
THE MEXICAN AMERICAN IN LITERATURE
3 Hrs. L
Prerequisite: Eligibility for Eng 1A. A continuation of Eng 46A with emphasis on contemporary Mexican American writers. Con-
ducted in English. Eng 46 B may be taken before Eng 46 A . Same ducted in English. Eng 46
Span 28B) (CSU, UC)
ENG 47 (3)
CTION TO THE BIBLE AS LITERATURE Ars. Lec.
ENG 50 (3)
ADVANCED COMPOSITION
3 Hrs. Lec.
rerequisite: Eng 1A. Advanced expository prose, argumentation description and the study of prose style. (CSU, UC)

THE COMMUNICATION PROCESS 3 Hrs. Lec.
Prerequisite:
Prerequisite: Assignment by placement tests or teacher recom with everyday persuasive language and to develop his/her ability o analyze the message in typical media - TV, radio, newspaper magazines, and other popular literature. (CSU) (UC credi
limited. See a counselor) limited. See a counselor.)

## ENG 52 (3)

NTRODUCTION TO LINGUISTICS
Prerequisite: Eng 2B, Eng 51, Eng 1A or consent of the instructor introduction to the various branches of linguistics: languag classification, dialectal variation, psycholinguistiss, sociolinguis its, semantics. Specific work on English sounds, grammar, and dialects, including comparisons of English with Spanish. Recom
mended for teachers, teacher aides, students of foreign lang mended for teachers, teacher aides, students of foreign lang language. Suitable for English speaking and bilingual students.
(CSU, UC) CSU, UC)
ENG 53AB (3-3)
CREATIVE WRITING
CREATIVE WRITIN
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,
poetry, drama, and essay. (CSU, UC)
ENG 54 (3)
INTRODUCTION TO FILM HISTORY AND CRITICISM 2 Hrs. Lec. 2 Hrs. Lab.
The origin and development of movies as an entertainment indus ryy, as a technological medium, and as an art form. Key films from and artistic contributions to the art of film making. (Same a
Hum 54, MPP 54) (CSU UC) Hum 54, MPP 54) (CSU, UC)

## ENG 55 (3)

TECHNICAL AND REPORT WRITING
Hrs. Lec.
Prerequisite: Eng 51, Eng 2AB, Eng 1 A or permission of the cal reports, descriptions, and evaluations; writing assignment cal reports, descriptions, and evaluations; writing
fitted to the interests of individual students. (CSU)
ENG 56 (3)
INTRODUCTION TO MOTION PICTURE PRODUCTION 3 Hrs. Lec. Plus production practice hours to be arranged
(Same as MPP 10) (CSU) (UC credit limited. See a counselor.)

ENG 59 (3)
GRAMMAR AND USAGE REVIEW
3 Hrs. Lec.
Prerequisite: Placement at Eng 2A level or above. Review of traditional/structural grammar; review of usage rules regarding punctuation, mechanics, capitalization; review of spelling rule

ENG 60ABC (1-1-1)
2Hrs. Lab.
Prequisite:
Prerequisite: Current enrollment in ESL. Individual language language laboratory. Practice in listening comprehension and anguage laboratory. Practice in listening comprehension and
pronumciation. Grammar and sentence development through
structured structured lessons on tapes. Supplementary course for beginning
intermediate and advanced levels in ESL.

ENG 61ABCD (1-1-1-1)
NDIVIDUALIZED WRITING
2 Hrs. Lab.
This is a course in individualized instruction under the auspices and direction of a certificated instructor who diagnoses writing deficiencies and prescribes remediation. Individual learning modules are assigned for improving such things as: grammar,
usage, rhetorical skills and to eliminate language interference. The course is designed to assist students in any course(s) requir ng writing skills. The 36 required hours will be set by arrangemen with the student and must be undertaken in the Reading/Writing Lab.
ENG 62ABCD (1-1-1-1)
INDIIIDUAL
2 Hrs. Lab.
This is a course in individualized instruction under the auspices deficiencies and prescribes remediation. Individual learning modules are assigned for improving such things as: reading ocabulary, reading comprehension and reading rate. The cours is designed to assist students in any course(s) requiring reading
skills. The 36 required hours will be set by arrangement with the student and must be undertaken in the Reading/Writing Lab.
ENG 63AB (1-1)
Hr. Lec.
Diagnosis. of specific spelling problems and prescription of basic spelling rules.

## ENG 64 (1)

Y RESOURCES
Usr. Lec. ooks, and periodical indexes, as a basis for research in any field. Techniques of preparing and presenting a research paper are
included. Work on an actual term paper is not required although tudents may use this course to assist them in writing a research (term) paper for other courses if they wish. Helpful to any indi vidual from the community who wishes to use the library to keep p to date on the latest developments and to compile a bibli graphy in his/her area(s) of interest. (CSU, UC)

## ENVIRONMENTAL SCIENCE

## ENV SCI 5 (3)

IIS ENVIRONMENT
The study of natural resources vital to man's existence. Emphasis composition of the physical env ted with contamination of air, water and soil. (Same as Ag 5 )
CSU, UC)
FIRE SCIENCE

## RE SCI 17 (1)

MERGENCY FIRE/MEDICAL DISPATCHER
Prerequisite: Current CPR card. A course to train public safety dispatchers to quickly and accurately interrogate callers request ing medical aid, fire units or rescue services, and dispatch proper mergency vehicles and personnel. Communication between field units and dispatchers, prearrival instructions, triage calls, basic responsibilities of dispatcher will be covered.

FIRE SCI 20 (1)
PINCIPLES OF WOOD AND ORDINARY
CONSTRUCTION
An introduction to basic construction principles and the special characteristics of wood and ordinary construction such as brick
and concrete block structures. How these structures will be affected by fire are explored, as well as the necessary precaution take in guarding the safety of fire fighting personnel. Emphasis the type of construction and materials used in the area.
FIRE SCI 21 (1)

## ONSTRUCTION

Hr . Lec.
rerequisite: Fire Sci 20. This course covers the special characresistive structures. The primary emphasis is to help improve the student's ability to ensure fire fighter safety by recognizing mmon causes and indicators of failue, collapse and one haz ards related to these special building types and their contents.

## FIRE SCI 22 (1)

CONDECTION

## Hr. Lec.

Prerequisites: Fire Sci 20 and Fire Sci 21. New and prospective fire inspectors, fire officers and senior fire fighters will receive iroductory training in the shils and techniques of fire safety

## IRE SCI 23

1 Hr. Lec.
Designed for emergency response persons such that they and others will learn a systematic method of analyzing and assessing the potential effect of hazardous materials involved in fires and tion of general emergency behavior models to predict the sequence of events at an incident.

## FIRE SCI 24 (1)

HAZARDOUS
terials - THE PESTICID
Prerequisite: Fire Sci 23. From product release to clean-up oper tions, student will learn how to safely hande fires, spills and other incidents involving pesticides and related agricultural chemicals. Case histories and simulation exercises are exten vely used to reinforce the material presented. FIRE SCI 25 (1)

OR INCIDENT COMMAND
Hr. Lec. response resources at an emergency incident are introduced Following selected objectives of the National Professional Qualistanding of the general concepts of incident command.
FIRE SCI 26 (1)

## OMMANDING THE INITIAL RESPONSE

 1 Hr. Lec.Prerequisite: Fire Sci 25. Using responsible command principles troduced in Preparing for Incident Command, the student will prepare to command an initial response incident. Following
selected objectives of National Professional Qualifications Standards, this course shows the student how to apply proper command procedures such as establishing command, performing size up, developing and implementing an Action Plan, Transfering Systems.

## FIRE SCI 27 (1)

1 Hr. Lec.
Student will see how basic management concepts and principles apply to effective administration of fire and rescue organizations. Various management concepts are applied in a series of individual
and group exercises. Not only for volunteer fire managers, but also for combination career/volunteer and caree fire and rescue departments.

FIRE SCI 28 (1)
FIRE SERVICE SUPERVISION - INCREASING
1 Hr . Lec.
Prerequisite: Fire Sci 27. This course covers how general super vision/managerial theories apply to the fire service. Supervisor and program manasers improve their fire service leadership and supervisory effective ness.
FIRE SCI 29 (1) TEAM EFFECTIVENESS
1 Hr. Lec. and techniques used to improve supervision and management o
work groups and teams. The course is primarily for those in or ooking for positions as fire service supervisors and program managers.
FIRE SCI 30 ( 1 )
FIRE AND ARSON DETECTION
${ }^{1}$ Hr. Lec.
The basic techniques of determining fire origin and cause, and rocognizing primary clues or evidence of arson are detailed. This course may be used as an introduction to investigation of fire for new fire

FIRE SCI 31 (1)
INSTRUMENTAL TECHNIQUES FOR
COMPANY OFFICERS
This course allows persons to learn the basic concepts and tech niques for conducting periodic small unit training. The emphasi of this course is teaching principles applicable to inservice fire and rescue service skills training. This course covers the basic prin ciples of: Concepts of Adult Learning, Training Objectives and niques, Testing and Evaluation Procedures.
FIRE SCI 32 (1)
1 Hr. Lec.
his course is designed to help the student learn how to develop systematic planning will show students how. The concepts of safety prom planil show students how a successful fire FIRE SCI 40 (1)
NCIDENT COMMAND SYSTEM 1 Hr . Lec.
This course is designed to thoroughly familiarize emergency services personnel with the design components and organizatio of the ncident Command System. It enables the student to
tively use the Field Operations Guide (FP 420.1). (CSU)
FIRE SCI 50 (2)
fire fighting practice
A course designed for volunteer fire fighters. This course is de
signed to provide all the basic operational skills needed by fir fighters in a volunteer service. (CSU)

FIRE SCI 60 (3)
NTRODUCTION TO FIRE TECHNOLOGY 3 Hrs. Lec.
An introduct
An introduction to fire protection; career opportunities in fire analysis; public, quasi-public and private fire protection services specific fire protection functions; basic fire chemistry and physics. CSU)
FIRE SCI 61 (3)
FUNDAMENTALS OF FIRE PREVENTION 3 Hrs. Lec.
Organization and function of fire prevention; inspections; sur veying and mapping procedures; recognition of fire and life haz ards; engineering a solution of a fire hazard; enforcing the solution
of a fire hazard; public education aspects of fire prevention. (CSU) FIRE SCI 62 (3)
FIRE PROTECTION EQUIPMENT AND SYSTEMS 3 Hrs. Lec.
A course on the features of design and operation of fire detection
and alarm systems, heat/smeke control systems, nd alarm systems, heat/smoke control systems, special protec guishers. (CSU)
FIRE SCI 63 (3)
FIRE SCI 63 (3) 3 Hrs. Lec.
A course encompassing theory and fundamentals of how fires
start, spread and are controlled. An in-depth study of fire chemtart, spread and are characteristics of materials, extinguishin istry and physics, fire characteristics of mater
agents and fire control techniques. (CSU)
FIRE SCI 64 (3)
FUNDAMENTALS OF FIRE PROTECTION 3 Hrs. Lec.
The theory and fundamentals of fire protection, including fire protection laws, water systems and public fire protection systems FIRE SCI 65 (3)
FUNDAMENTALS OF PERSONAL FIRE SAFETY

## AND EMERGENCY ACTION

A course designed to provide basic skills in assessing fire dangers, handling common fire situations in the home and/or industry

## FIRE SCI 70 (2) <br> FIRE SCI 70 (2)

2 Hrs. Lec.
The fundamentals of officer leadership and supervisory tech niques. Introduces fire service personnel to the principles of com pany supervision, personnel management, evaluation and train

FIRE SCI 71 (2)
FIRE MANAGEMENT II
2 Hrs. Lec.
Prerequisite: Fire Sci 70 . This course is a continuation of Fire Management 1, and prepares fire service personnel in the prin uation and training techniques with a particular emphasis o uation and training techniques with a particular emphasis on
methods of developing, utilizins instructional materials, and
efficient teaching methodology. (CSU)

## FIRE SCI 72 (2)

FIRE MANAGEMENT III
2 Hrs. Lec.
This course provides the specific managerial skills required of fire company officer or chief fire officerer in a fire service unit. It
includes methods and procedures of personnel management fron routine through emergency conditions and situations in the fire

## FIRE SCI 73 (1)

R INSTRUCTOR TRAINING
1 Hr. Lec. raining. Emphasizes the teaching and evaluation of manipulative kills employed by the fire service. (CSU)
FIRE SCI 90 (2)
2 Hrs. Lec.
Prerequisite: Suggested completion of Fire Sci 60 or Fire Sci 62 A basic course for engineers in the fire fighting service which
provides the background in general use and operation of pumping and related equipment. (CSU)
FIRE SCI 92 (2)
ARSON INVESTIGATION I
2 Hrs. Lec.
Prerequisite: Present fire fighter status, either paid or volunteer This course is designed for the fire and police arson investigator to investigation. (CSU)
FIRE SCI 93 (2)

## FIRE SCI 93 (2)

2 Hrs. Lec.
Prerequisite: Fire Sci 92. This is an advanced arson investigator course for fire and police personnel to successfully carry ou

## FIRE SCI 94A (2)

### 2.2 Hrs. Lec

Prerequisite: Present fire fighter status, either paid or volunteer A course designed to provide Fire Company Officers with infor mation and experience in command and control techniques used making, the act of commanding, the authority or right to com mand, the personnel organization structure or area under an individual commander, and the preplanning and training require

## FIRE SCI 94B (2)

2 Hrs. Lec. or volunteer. This course provides instruction in First-in Com pany level decision making and scene management principles fo ncidents involving chemicals and hazardous materials. Included re Scene Safety Procedures; Evacuation Considerations; and
dentification of Materials by Container Size, Shape and Labeling (CSU)

FIRE SCI 95ABCD $(1 / 1 /-1 / 2-1 / 2-1 / 2)$
2 Hr . Lec. .8 Hr . Lab
This course provides students with general information, tech iques and strategies in dealing with flammable liquids and gases. tudents are provided with particular exercises in controlling burn sites under controlled supervision. (CSU)

FIRE SCI 96 (.5)
PIPELINE TRANSPORTATION EMERGENCIES
his course is designed to create emergency support effectivenes in preventing, controlling, and terminating accidents involving pipeline transportation

FIRE SCI 97A (2)
IRE INSTRUCTOR TRAINING IA
Part of the California State Fire Academy Curriculum. This course is designed to prepare personnel as instructors for teaching courses in fire department companies. The course covers identication of training needs, occupational analysis, measurable stu dent objectives, development of levels of instruction.

## IRE SCI 97B (2)

RE INSTRUCTOR TRAINING IB
Prerequisite: Fire Sci 97A. This is the second in a two course series and is the standard State Board of Fire Services accredited course that is designed to prepare personnel as instructors in Fire cience. The course covers course outlines, levels of instruction, niques and instructional aids.
FIRE SCI 98A (2)
2 Hrs. Lec.
A part of the California Fire Academy Curriculum. This course designed to prepare personnel in matters of fire cause and origin and fire prevention techniques. This course includes inspection adioactive explosives and unstable materials typically found during basic fire inspections. (CSU)

## FIRE SCI 98B (2)

## Hrs. Lec.

A part of the California Fire Academy Curriculum. This course and fire prevention techniques. This course includes structura and life safety components, hazards associated with specific ypes of fires, identification of fire/smoke detection and sprinkler

## FRENCH

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting placement in collese courses and man be counted toward meeting the foreign language requirement in various majors. These high Placement will be made by examination and/or consent of the
instructor. Contact the Foreign 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 instructor before enrolling
Students who have recently studied French for three years in high

## FR 1 (5)

5 Hrs. Lec.
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. Introduction to aspects of French culture and civilization. Students must plan for an hour of individual language laboratory by arrangement. Not open to students who have completed three years of
high school French. (CSU, UC)

FR 1A (2.5)
2.5 Hrs. Lec.

This course is one-half the content of the regular Fr 1 course. Completion of 5 units. Students must plan for one hal 1 ant ofr 1 , and the language laboratory by arrangement. (CSU) (UC credit limited. See a counselor.)
FR 1B (2.5)
2.5 Hes. Lec.
Prerequisite:

Prerequisite: Fr 1A. A continuation of Fr 1A. Students must plan for one-half hour of individual language laboratory by arrange-
ment. (CSU) (UC credit limited See a counselor)

## FR 2 (5)

NTARY FRENCH
5 Hrs. Lec.
exarequisite: Fr 1 or two years of high school French or placement examination for demonstration of competency in four basic skills. Continues the development of all four language skills, emphasiz-
ing vocabulary building, increasing fluency and control of correct ing vocabuary building, increasing fluency and contro of correct
pronunciation, basic forms and structure. Students must plan for an hour of individual language laboratory by arrangement. (CSU, UC)

## FR 2A (2.5)

2.5 Hrs Lec.
2.5 Hrs. Lec. ${ }_{\text {Prerequisite: }}$ Fr 1 B or placement by examination and consent of instructor. This course is one-half the content of the regular Fr 2 course. Completion of $F r 2 A$ and $2 B$ will be the equivalent of $F r 2$,
ch and the total of 5 units. Students must plan for one-half hour of individual language laboratory by arrangement. (CSU) (UC credit limited. See a counselor.)

## FR 2B (2.5)

2.5 Hrs. Lec.

Prerequisite: Fr 2A. A continuation of Fr 2 A . Students must plan for one-half hour of individual language laboratory by arrangement. (CSU) (UC credit limited. See a counselor.)

## FR 3 (4)

## MEDIATE FRENCH

Prerequisite: Fr 2 or two years of high school French or placement by examination. An intermediate level French course giving a comprehensive review of French grammar and emphasis on writmodels and practice in writing. Students must plan for one hour per week of required language laboratory practice by individual study arrangement. (CSU, UC)

## FR 4 (3)

INTERMEDIATE FRENCH READING AND WRITING 3 Hrs. Lec.
Prerequisite:
Prerequisite: Fr 2 or two years of high school French or placement
by examination. Intensive reading and vocabulary development by examination. Intensive reading and vocabulary development
based on cultural and literary materials, including critical analysis based on cultural and literary
and summaries. (CSU, UC)

## FR 5 (3) <br> INTERM 3 Hrs . Lec. Prerequisite: <br> 位

 ment by examination. An intermediate course in French or place. to expand students' knowledge of economics, commerce and the French business world. Classes are conducted in French. Discussions on political, economic and social aspects of Frenchculture. (CSU, UC)

FR 10 (3)
IN HeRMEDIATE CONVERSATIONAL FRENCH
3 Hrs. Lec.
Prerequisites: Fr 2 or two years of French in high school or by
examination and examination and consent of instructor. (It is recommended that
Fr 10 be taken concurrently with Fr 3 .) Practical conversational Fr 10 be taken concurrently with Fr 3.) Practical conversational
skills are developed through listening exercises, directed conversations on assigned readings from newspaper and magazine articles, current topics, simple dialogues and plays. Emphasis
on contemporary life in countries where French is spoken. Stuon contemporary life in countries where French is spoken. Stu-
dent must plan for an additional hour of individual language dent must plan for an additional hour
laboratory by arrangement. (CSU, UC)
FR 11 (3)
3 Hrs. Lec.
Prerevisite
Prerequisite: Fr 3 or Fr 10 or three years of French in high school
or by examination and consent of instructor or by examination and consent of instructor. (It is recommended
that $F r 11$ be taken concurrently with $F r 4$.) Continuation of $F r 10$ Student must plan for an additional hour of individual language laboratory by arrangement. (CSU, UC)
FR 20A (2)
FRENCH DRAMA - READING AND PERFORMANCE
1 Hr. Lec. 3 Hrs. Lab. 1 Hr. Lec. 3 Hrs. Lab.
Prerequisite: Fr 2 or two years of high school French or consent
of instructor. Oral reading and performance of French plays and of instructor. Oral reading and performance of French plays and language. One selection of a one-act play or skit will be studied in.depth and performed for students of French. (CSU, UC)
FR 20B (2)
FRENCH DRAMA - READING AND PERFORMANCE 1 Hr. Lec. 3 Hrs. Lab.
Prerequisites: Fr 20 A or equivalent experience of Fr 2 and con-
sent of instructor. Continuation of Fr 20 A . (CSU

FR 40 (3) AND CULTURE
An introduction to French civilization and culture. The major currents and characteristics of French culture and its develop. ment as expressed through the centuries in literature, art, philosophy, music, science, politics, history and life of the people from
prehistory to the 20th century. Conducted in English. (Same as prehistory to the 20th century. Conducted in English. (Same as
Hum 40) (CSU, UC)

FR 41 (3) CULTURE BEYOND FRANCE 3 Hrs. Lec.
Cultural aspects and developments of French speaking people, their customs, traditions, literature, art, music, philosophy, government and economoy. Brief studies of Canada, African
countries, Tahiti, Haiti, Louisiana, Martinique, Guadalupe. Emcountries, Tahiti, Haiti, Louisiana, Martinique, Guadalupe. Em41) (CSU, UC)

FR 60ABC (1-1-1)
2 Hrs. Lab.
Prerequisite: Current enrollment in French. Individualized language laboratory practice with prepared taped materials and texts in the language laboratory. Practice in listening comprehension
and pronunciation. Supplementary course for beginning, intermediate and advanced levels in French.

## GEOGRAPHY

GEOG 1 (3)
PHYSICAL GEOGRAPHY
3 Hrs. Lec.
An introduction to the physical characteristics of the earth. Topics include: climate, land forms, natural vegetation, and the water
and mineral resources of the earth. (CSU, UC)

GEOG 2 (3)

## GEOG $2{ }^{(3)}$

3 Hrs. Lec.
An introduction to the regions and cultures of the world. Emphasis on the contemporary demographic, linguistic, religious, and economic characteristics of major
taken before Geog 1. (CSU, UC)
GEOG 3 (3)
3 Hrs. Lec.
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 consuming areas. (CSU, UC)

## GEOLOGY

GEOL 1A (4)
PHYSICAL GEOLOGY
3 Hrs. Lec. 3 Hrs. Lab.
Prerequisite: One year of high school science or permission of Prerequisite: One year of high school science or permission of
instructor. Destructive and constructive work of water, ice and wind; earthquakes and the earth's interior; volcanoes and geysers; rocks and rock formations; mineral resources, coral islands; origin and history of the larger topographic features. (CSU) (UC credit limited. See a counselor.)

GEOL 11 (3) ${ }^{\text {GENERAL }}$ GEOLOGY: AN INTRODUCTION TO GEOLOGY
GEOLSG. Le.
Prerequisite:
Prerequisite: One semester of high school science recommended. The basic elements of physical and historical geology. Study of rocks and fossils; their meaning and origins. Origin of the earth,
volcanics, tectonics, earthquakes and geologic time. The building of mountains; erosion by wind and water. Glaciers and their activities, climatic changes through time, the changing landscape. limited. See a counselor.)

GEOL 12 (3)
INTRODUCTION TO HISTORICAL GEOLOGY
3 Hrs. Lec
Prerequisite: One semester of high school science recommended. Origin and evolution of the earth, solar system and universe. Measurement of geologic time: the geologic periods. Typical
fossils and organic evolution. Survey of paleogeogrohy and paleofossils and organic evolution. Survey of paleogeogrphy and paleoecology. Biological and geological principles in an historical per-
spective. Emphasis on past events in Imperial Valley. (CSU) (UC spective. Emphasis on past evernts
credit limited. See a counselor.)

## GEOL 12L (1)

GEOLOGY LAB
Prerequisite: Geol 12 or concurrent registration in Geol 12. Origin and evolution of the earth, solar system and universe. Measure ment of geologic time: the geologic periods. Typical fossils and organic evolution. Survey of paleogeography and paleoecology Biological and geological principles in an historical perspe
Emphasis on past events in Imperial Valley. (CSU, UC)

## GEOL 13 (3) <br> CALIFORNIA

${ }^{3}$ Prers. Lec. Prerequisites: One semester of high school science or permission
of instructor. A study of geologic history of California, the geology its scenic landscapes. Land forms, plate tectonics, earthquakes its secenic lause and prediction. (CSU, UC)
GEOL 14 (3)
GENERAL PALEONTOLOGY, DINOSAURS,
SABRETOOTHS AND MAN
SABRE. Lec.
Prerequisites
Prerequisites: Geol 10, Geol 12, or Zool 1B. The history of life on earth from microbe to man as seen in the fossil record. The origins
and evolution of invertebrates, vertebrates and plant life. Study of extinction and its causes. Emphasis on paleoecology and know ledge from the past applied to the present and future. Fossil fuels, heir origin and distribution. A general education course intended
for nonmaiors. (CSU, UC) for nonmajors. (CSU, UC)

## GERMAN

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

Pros. Lec. 1 Hr. Lab.
Pronuciation, practice in speaking, introduction to reading an writing, basic grammar of the German language. The student must plan for an additional hour of individual language laboratory
(CSU, UC)

## GER 1 ? <br> GER 1A (2)

2 Hrs. Lec. $1 / 2$ Hr. Lab.
Beginning course of graded lessons acquainting the student with the basic structure and pronunciation through practice in speak ing, reading and writing. This course is the first half of the first semester of Ger 1. Completion of Ger 1A and Ger 1B is the equiva.
lent of Ger 1 , a total of 4 units. Students must plan for an additional lent of Ger 1, a toald hour of individual language laboratory by arrangement (CSU) (UC credit limited. See a counselor.)
GER 1B (2)
GER 1B (2)
ELEMENTARY GERMAN
2 Hrs. Lec. $1 / 2 \mathrm{Hr}$. Lab
Continuation of Ger 1A. Students must plan for one-half hour of individual language laboratory by arrangement. (CSU) (UC credit GER 2 (4)
ELEMENTARY GERMAN
4 Hrs. Lec. 1 Hr. Lab.
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 will be introduced. Students must plan for an additional one-half hour of individual language laboratory by arrangement. (CSU, UC)

## GER 10 (3)

Hrs. Lec.
Prerequisites: Ger 1 and Ger 2 or by examination and consent of instructor. Conversational skills developed through oral drills, opics. Practice in the spoken language; practical and diplomatic ocabulary; simple dialogues and plays. Meets German conversa ion requirements for enrollment in upper division courses. Stutory by arrangement. (CSU, UC)

## GER 11 (3) <br> ERSATIONAL GERMAN

Prerequisites: Ger 2 or Ger 10. This course is a continuation of Ger 10. Students must plan for two additional hours of individua

## GRAPHIC ARTS

## GRAPHIC COMMUNICATION I

1 Hr. Lec. 3 Hrs. Lab. $\qquad$
rerequisites: Art 22A or equivalent is recommended. A cours for reproduction in the graphic arts field. The emphasis is on dvertising and studio skills. This course witl cover newspaper ads, brochure layout, pasteup, camera-ready art work, colo

AA 11 (3)
CATION II
GRAPHIC COMMUNIC
2 Hrs. Lec. 1 Hr
Prerequisite: GA 10. A continuation in the preparation of art and mechanics for reproduction in the graphic arts field. Emphasis is on advertising and studio skills. An in-depth study of reproduction
art in conjunction with offset printing. Student must plan for two art in conjunction with offset printing. Stu
additional hours by arrangement. (CSU)

## GA 12 (3)

COMPOSITION, LAYOUT AND PASTE-UP
2 Hrs. Lec. 3 Hrs. Lab
Prerequisite: GA 10. A course designed to cover basic methods of composition as it applies to the printing industry, including copy setting, proofreading and paste-up techniques. This course will
cover effective uses of related material, techniques, creative think ing and innovative practices through the use of demonstrations, projects and laboratory experiences. (CSU)

## GA 20 (3) OFFSET PRINTING I 2 Hrs. Lec. 2 Hrs. Lab <br> 2 Hrs. Lec. 2 Hrs. Lab

Study of the principles of offset presswork at the elementary level. Students print simple offset work, color work and close-register. This course will also offer instruction in the theory of offset press roubleshooting, including standard troubleshooting procedures. CSU)
GA 21 (3)
Hrs PRINTING
2 Hrs. Lec. 2 Hrs. Lab.
Prerequisite: GA 20. An advanced course in lithographic presswork which allows the student to apply the lithographic theor and experience he/she has gained by operating equipment using
sheets $4 \times 6 \mathrm{in}$. up to $11 \times 17 \mathrm{in}$. with emphasis in loading and
setting feeds, conveyor mechanism and guides, the proper prepration of stock and packing clamps, the mounting of plates and blankets, the setting of dampeners, ink rollers, fountain, and rippers. Pressure adjustments are stressed. Camera operations or the lithography process are introduced. Student must plan
or two additional hours by arrangement. (CSU)

## GA 22 (3) <br> GA 22 (3)

Hrs. Lec. 2 Hrs. Lab
Current techniques and equipment in photography and plate making as final preparation before offset printing. Covers effective se of materials and techniques in darkroom, stripping and (2)

## GA 23 (2)

## Hrery, CUTTING AND DISTRIBUTION

This course offers instruction in finishing operations on printed materials, training in the operation of folding machines, slitting perforating, and troubleshooting, training in the operation of hand and power cutters, special trimming, trimming of booklets and and stitching, hole punching, jogging and padding procedures. (CSU)
GA 30 (3)
GRAPHICS PLANT OPERATION AND MANAGEMENT 3 Firs. Lec. 2 Hrs. Lab
A course designed to acquaint the student with all phases of the small printing shop operation. The course emphasis will be on production control, cost control, estimating and quoting, sales and general management techniques used in the day-to-day oper ation. Covers effective use of techniques, creative thinking, entations and experiences directly related to the subject matter (CSU)

## HEALTH ASSISTANT

The Health Assistant Program (HA 15) prepares the student to receive a Certificate of Completion from the College. In addition the student is prepared to receive a Certificatege from the Cali-
fornia State Department of Health Services as a Certified Nurse fornia
Aide.
The Home Health Aide Program (HA 16) prepares the student to receive a Certificate of Completion from the College. In addition期 fornia
Aide.
An admissions committee reviews all applications. Early applicaion is recommended since both programs accept a limited num ber of students. Admission requirements include an application on file, a health examination, and a Nelson-Denny Reading score
of ninth grade. A grade of "C" or better in the program course is of ninth grade. A grade of " $C$ " or better in the program course is
equired for successful completion. Transportation to the health agencies is the responsibility of the student.
HA 15 (6)
HEALTH ASSISTANT
Hrs. Lec. 9 Hrs. Lab
Prerequisite: Ninth hrade reading level or Eng 12A. This course
will prepare the health assistant for certification by the State will prepare the health assistant for certification by the State o long-term care facility. The course is structured to provide theory long-erm care facility. The course is structured to provide theory
and practical application of skills needed to function as a nurse
assistant

HA 16 (6)
HOME HEALTH AIDE
HEALTH TECHNOLOGIES

Prs. Lec. 6 Hrs. Lab.
Prerequisite: Certification as a Health Assistant. This course will prepare the student for certification by the State of California as
a home haalth aide The curriculum is structured to provide the a home health aide. The curriculum is structured to provide the theory and practice skills needed to care for individuals in the

## Nursing - Continuing Educatio

Health Assistant
Prospective students are advised to check with the college pre to be offered. New courses are offered periodically as con munity health agency and health personnel needs are identified. An enrollment fee will be charged.

HA 37 (1)
BASIC ARRHYTHMIA RECOGNITION
${ }^{1}$ Hr. Lec. ${ }_{\text {(Same as }}$ RN/VN 37) (CSU)
HA 38 ( $1 / 2-3$ )
THIS YEAR'S ISSUES IN HEALTH
$1 / 2-3$ Hrs. Lec.
(Same as RN 38, VN 38) (CSU)
HA 40 (2)
位
1.8 Hr . Lec. . 3 Hr . Lab.

Prerequisite: HA 15 or equivalent and permission of instructor
(Same as RN 40, VN 40) (CSU)

## HEALTH EDUCATION

HE 1 (3)
3 Hrs. Lec.
Fundamentals of healthful living designed to provide scientific Includes the study of first aid and the relationship of alcoho narcotics, and smoking to health, and the factors involved in
family and community health and safety. (CSU, UC) HE 2 (3)
FIRST AID
3 Hrs. Lec
The immediate and temporary care given in case of accident or the Standard or Advanced Red Cross First Auaify ctudent CSU, UC)
HE 3 (2) Prerequisite: The satisfactory completion of basic or recruit United States of America. The student wishing credilit for milit service must present his/her DD214 or equivalent supportin document to the Veterans Assistant and register for the credit. If the student registers for military credit and does not subm verification of service, he/she will be dropped as a No.Show and
vill not receive credit. HE 3 does not count for units toward Financial Aid, or full-time student status. These are not contac hours. May receive credit only once. (CSU)

## HT 1 (2) <br> INTRODUCTION TO HEALTH SCIENCE

 2 Hrs. Lec.In this course the educational requirements and practice demands of the varied careers within the health services are surveyed
Progress and trends in health care delivery since 1940 are pre sented as a background for the exploration of the current stat of the art. Major health problems of the 1980's are identified and the impact of lifestyle, total environment and education on phy HT 2 (5-1.5)
HT 2 (.5-1.5)
THIS YEAR'S
THIS HISS ISSUES IN PHARMACY
A variety of lectures, seminars and workshops covering curren issues in pharmacy will be offered each semester for pharmacists and other health personnel interested in securing continuing education units or in updating their knowledge in various aspect
of pharmacology. Topics may include pharmacokinetics, dru therapy compliance, pharmacologic agents in disease, chemo therapy, budgeting and planning for pharmacies, etc. Program will be two or more hours in iength. Attendance hours accumu earn 5 units of college credit, and increments of nine hours ther after will earn . 5 college units up to a total of twenty-seven attend ance hours which will earn 1.5 college units. C.E. certificate will be issued for each program.

## HT 3 (3)

## 3 Hrs. Lec.

Course of study designed to develop competency in the accurat use of medical vocabulary to include anatomy, physiology, dis eases, and descriptive terms and prepare students for entry-level positions as medical transcribers, clinical editors, health insur ance processors, and patient administration specialists. (Same

## HT 4 (3)

## MEDICAL TRANSCRIPTION

2 Hrs. Lec. 2 Hrs. Lab.
Prerequisites: HT 3 /Bus 80 . Ability to type 40 words per minute or permission of the instructor. Course of study designed to pre pare students to transcribe data from a recording device into typewritten form using standard typewriters and/or micro
computers. Includes information placed on patient records in computers. Includes information placed on patient records in
hospitals, doctors' offices or clinics. Upon completion of this course, the student should be prepared to accept an entry leve position as a medical transcriptionist. (Same as Bus 81) (CSU)

HT 5 (3) 2 Hrs. Lec. 2 Hrs. Lab
rerequisites: HT $3 /$ Bus 80 . Ability to type 40 words per minute or permission of the instructor. Course of study designed to pre
pare students to use memory typewriters, word processors, microcomputer processors, input/output equipment (CTRs, dis drives, printers, diskettes, magnetic tape, and various software puter program to store patient data is emphasized. (Same as
Bus 82 ) (CSU)

## HT 6 (3)

Medical insurance
3 Hrs. Lec.
Prerequisites: HT $3 /$ Bus 80 . Ability to type 40 words per minut or permission of the instructor. Course of study designed to pre
pare students for entry-level positions in patient services admin istration. The collection of accurate information is stressed Forms and codes are presented to assist the student to accurate complete the insurance billing process. (Same as Bus 83) (CSU)

HT 7 (3)
PATIENT ADMINISTRATION SERVICES
3 Hrs. 3 Hrs. Lec.
Course of study designed to prepare students for entry-level posi: to various areas such as preadmissions, financial advisory vices, billing, collections, and outpatient accounts is emphasized Interdepartmental communications are stressed. (Same as Bus 84) (CSU

## HT 8 (2)

MENT OF PATIENT SERVICES
Hiss. Lec.
Course is designed for persons interested in patient services in hospitals, clinics or doctors' offices. Managing the flow of intra zational behavior is reviewed and personnel supervision is includ ed. The role of the manager/supervisor is stressed. (Same a Bus 85) (CSU)

HT 11 (3)
ADVANCED MEDICAL TRANSCRIPTION
2 Hrs. Lec. 2 Hrs. Lab. An advanced course of study in transcribing medical data ont appropriate health facility forms. Advanced medical terminology
is used and increased speed in transcription is required. Upon completion of this course, the student should be prepared to accept a position as an experienced transcriptionist. (Same a Bus 86) (CSU)

## HT 12 (6)

PHARMACY TECHNICIAN I
Prerequisite: HT 3 or permission of instructor. The Pharmac Technician 1 course is designed to develop knowledge and ski in ions for drugs dispensed from strengths, and common abbrevia earn to receive orders for medications, transcribe orders ont pharmacy patient profiles, and type necessary labels. Othe technical and clerical functions traditionally carried out by the pharmacist will be included. (CSU)

## HT 13 (6)

PHARMACY TECHNICIAN II
3 Hrs. Lec. 9 Hrs. Lab.
Prerequisite: HT 12 or permission of instructor. The Pharmacy
Technician 2 course continues to Technician 2 course continues to build upon the knowledge and
skills learned in HT 12 In addition skills learned in HT 12 . In addition, the student will learn to facil records, do billing procedures, inventory control, drug purchas ing and parenteral admixture operations. Upon successful completion of this course, the student will receive a certificate of
completion from Imperial Valley College. (CSU)

## HISTORY

HIST 4A (3)
(CAN HIST 2) HISTORY
3 Hrs. Lec.
A survey of the major developments in the Western heritage from he world of the ancient Greeks to sixteenth century Europe tics, and society. (CSU, UC)
HIST 4B (3)
(CAN HIST 4) 3 Hrs. Lec.
A study of Western civilization from the sixteenth century to the present in which political, economic, social and intellectua
changes and developments are stressed. May be taken before Hist 4A. (CSU, UC)
HIST 10 (3)
HisTory
A history of modern Russia from about 1900 to the present day showing the historical background of Russian Marxism, specia attention to the Russian revolution of 1917, the consolidatio
of the Stalinist dictatorship, foreign and domestic policies of the Soviet Union since the Revolution, and a discussion of the expan sion of Russian communism and the challenge of Russia today
(CSU, UC)

HIST 17A (3)
UNITED STATES HISTORY
(CAN HIST 8) 3 Hrs. Lec
A survey of the political and social development of the United States from the seventeenth century to 1872 . This course and either Hist 17B or Poly Sci 1 will mee
in American Institutions. (CSU, UC)
HIST 17B (3)
(CAN HIST 10) 3 Hrs. Lec.
A survey of the political, social, and economic maturation of the United States from the end of the Civil War to the present. This course and either Hist 17A or Poly Sci 2 will meet graduation
requirements in American Institutions. May be taken before
Hist

HIST $30(3)$
MEXICO AND THE AMERICAN SOUTHWEST 3 Hrs. Lec.
A one-semester survey of Mexico from the early nineteenth Century, the independence movement, the Mexican American in the last century. (CSU, UC) HIST 33 (3)
HISTORY OF IMPERIAL VALLEY
A one semester survey of the history of the Imperial Valley from the earliest times to the present. The course will stress the devel opment of communities, water resources, agriculture, and ethnic groups. (CSU)
HIST 40 (3)
3 Hrs. Lec.
(Same as Span 40) (CSU, UC
HIST 41 (3) 3 Hrs. Lec.
(Same as Span 41) (CSU, UC

HONORS 21 (1-2) 1.2 Hrs. Lec.
credit limited. See a counselor.)
HONORS 22 (1-2)
ON HONORS PROGRAM
HONORS 23 (1.
SOCIAL SCIENCE DIVISION HONORS PROGRAM
(UC credit limited. See a counselor.)
HONORS 24 (1-2)
BEHAVIORAL SCIENCE DIVISION HONORS PROGRAM
1-2 Hrs. Lec.
(UC credit limited. See a counselor.)
HONORS 25 (1-2)
ICUITURE TECHNOLOGY DIVISION HONORS PROGRAM
1-2 Hrs. Lec
HONORS 26 (1-2)
(UC credit limited. See a counselor.)
HONORS 27 (1-2)
SCIENCE DIVISION HONORS PROGRAM 1 -2 Hrs. Lec.
(UC credit limited. See a counselor,
HONORS 28 (1-2)
MATHEMATICSENGINEERING DIVISION
HONORS PROGRAM
${ }^{1-2}$ Hrs. Lec.
HONORS 29 (1-2)
HEALTH, PHYSICAL EDUCATION AND RECREATION 1-2 Hrs. Lec.
HONORS 21-29
COURSE DESCRIPTION
Prerequisites: Sophomore standing and admission to the program. Individual study with special guidance of instructor. Recomor for students requesting study in-depth in a particular area By request of students and/or suggestion of instructor and approval of division chairperson. Interdisciplinary conference, with readings, discussion, reports.

HONORS 30AB (1-6)
FIELD STUDY
Lec./Lab. by arrangement
study offered instruch for honors students in major area of readings, discussion, and reports. Travel to on-site study area may be required at the student's expense. Special curriculum may be requested by the students and/or instructors, but must be approved by the appropriate division chairperson and the Vice
President for Academic Services. (UC credit limited. See a counselor.)

HONORS 31 (1-7)
NURSING DIVISION HONORS PROGRAM Lec./Lab. by arrangement
Prerequisites: Admission to ADN, VN or HA program and per Prerequisites: Admission to ADN, VN or HA program and per
mission of the Program Director. Intended for transfer student or students who will take only a portion of one of the Registered Nursing, Vocational Nursing or Health Assistant courses.
HUMANITIES

## HUM 1A (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 reflected in the arts. Conducted by lectures, films, field trip and discussions. (CSU, UC)

## HUM 1B (3)

MAN AND THE ART
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 wonderings, his confusion of experience, his experience with the 20th Century. Conducted by lectures, films, field trips, and discussions. (CSU, UC
HUM 25 (3)
3 Hrs. Lec.
An exploratory course introducing the student to the major disc plines in the humanities: art, architecture, literature, music, and he theatre. Examination of humanistic values as theyare reflected through the arts of world cultures. Includes guest lecturers, field

HUM 26 (3)
THE HUMANITIES
3 Hrs. Lec.
Prerequisites: Hum 25 with a grade of $B$ or better or eligibility for visual arts and architecture. Humanistic and in musterdisciplipinary approach to study man's reflection of himself in creative expres
sion. Research paper or creative project required Condux sion. Research paper or creative project required. Conducted by lecture,
HUM 40 (3)
HUM 40 (3) AND CULTURE
3 Hrs. Lec.
(Same as Fr 40) (CSU, UC
HUM 41 (3)
INTRODUCTION TO FRENCH CIVILIZATION AND CULTURE BEYOND FRANCE
3 Hrs. Lec.
(Same as Fr 41 )
HUM 54 (3) 2 Hrs. Lec. 2 Hrs. Lab.
(Same as Eng 54, MPP 54) (CSU, UC)

## HR 62ABCD (1-1-1-1) <br> SOCIAL DEVELOPMENT

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

## HR 63A (.5)

ORIENATION TO IVC
. 5 Hr . Lec.
A course required for all new matriculating students to assure that they will be acquainted with the college's programs, services, academic expectations, procedures and policies, campus grounds, and student life. Specifically addressed will be admis-
sions, matriculation and its requirements, rules and regulations as they pertain to students, financial assistance, support services as the Learning Center, Reading/Writing Lab, Language Lat, Tutorial Services, support programs to include EOPS Student Support Services and Disabled Student Programs and
Services, teacher/student/institution expectations study skills, development of a preliminary Student Educational Plan, registration assistance, and campus life.

## HR 63B (.5) <br> STUDENT EDUCATIONAL PLAN

.5 Hr . Lec.
Prerequisite:
Prerequisite: HR 63A. An optional course to be taken after the successtul completion of HR 63 A . This course expands on the
foundation of information provided in HR 63 A by assisting each student to compile an individual needs analysis based in part o the student profile questionnaire completed in HR 63 A . Based on that needs analysis, specific information will be presented
in the areas of transfer, vocational requirements, career explora tion, choosing a major, decision making, campus organizations, student life, and assessment needs as necessary.
HR 65ABCD (1-1-1-1)
THE STUDENT IN CONTEMPORARY
COLLEGE AFFAIRS
1 Hr . Lec.
to develop leaders
Designed to develop leadership qualities in students desiring to better understand the principles of publicity, finance, organiza-
tion procedures, group dynamics, and human relations. The course shall be offered on a credit basis only.
INDIVIDUAL STUDIES

ND STU 40 or 80 (1-3)
VOCATIONAL EDUCATIO
IND STU 41 or 81 (1-3)
HUMANITIES
Hours by Arrangement
IND STU 42 or 82 (1-3) ENGLISH
Hours by Arrangement
IND STU 43 or 83 (1-3)
Hours by Arrangement
IND STU 44 or 84 (1-3)
Hours by Arrangeme

IND STU 45 or 85 (1-3)
BUSINESS
Hours by Ar
,
IND STU 46 or 86 (1-3) Hours by Arrangement

IND STU 47 or 87 (1-3)
Beurs by Arrangement

## IND STU 40-47 and 80-87

Available to students on an individual basis. Course content, prerequisites, and unit credit to be determined by the Division
and the Vice President for Academic Services. Courses developed and the Vice President for Academic Services. Courses developed in relation to student interest and
bered $80-87$ are nontransferable.
IND STU 48AB or 88AB (1-6)
1-6 Hrs. Lec Lab by PROGRA
This course is designed to help prepare the physically limited student for full or adaptive participation in community college activities: academic, social, vocation
Course number 88 is nontransferable.
IND STU 49ABCD $(1 / 2-1,1 / 2-1,1 / 2-1,1 / 2-1)$
INDIVIDUAL STUDIES/NURSING LEARNING CENTER 1-2 Hrs. Lab. by arrangement nologies Division Program. An individualized course of independent study by students in the programs offered by the Nursing Education and Health Technologies Division. Students will use materials in the Nursing Learning Center and will have the assist-
ance of the NLC instructor/tutors as needed. Eighteen (18) hours of independent study in the NLC per semester will earn $1 / 2$ unit credit. Thirty-six (36) hours of independent study in the NLC per

IND STU 89ABCD (1-2, 1-2, 1-2, 1-2)
INDIVIDUAL STUDIES FOR THE LEARNING CENTER 2-4 Hrs. Lab.
An individualized course of study in any discipline using materials in the Learning Center. Nontransferable.
$\qquad$
ITAL 1 ( 2 ( $)$
ELEMENTARY ITALIAN
2 Hrs Lec 1/ Hr Lib
This course is designed to develop in the student rudimentary abilities in the four basic language skills: hearing, speaking, reading, and writing with emphasis on contemporary, usage and dram-
matical emphasis on the present tense. The sequence of Ital 1 A matical emphasis on the present tense. The sequence of Ital 1 A
and 1 B is equivalent to a regular 4 unit 1 -semester college level and $1 B$ is equivalent to a $r$
Italian course. (CSU, UC)
ITAL 1B (2)
ELEMENTARY ITALIAN
2 Hrs. Lec. $1 / 2$ Hr. Lab.
Prerequisite: Ital 1A. A continuation of Ital IA. Grammatical emphasis on the future and present perfect tense and the imperalar 4 -unit 1 -semester college level Italian course (CSU, UC)
JOURNALISM

## JRN 1 (3)


3 Hrs. Lec.
Prerequisite: Eligibility for Eng 2B or Eng 1A. The course focuses on the newspaper as a vehicle for communication within a comncluding types of articles, writing style, interview techniques, makeup and ethics. (CSU, UC)

## JRN 2ABC (4-4-4)

EWSPAPER PRODUCTION
Prerequisite: Jrn 1 or equivalent. Course provides a concrete introduction to principles and techniques of newspaper production through work on the student newspaper. Students assume specific staff positions with corresponding responsibilities for
the paper's production. Lab work includes editing of stories, planning pages, headline writing, proofreading, and pasteup. (CSU)

## JRN 3 (3)

3 Hrs. Lec.
Survey of mass media; their interrelationships, their problems and responsibilities. Relationship of the mass media to the indi

JRN 5 (3)
NTRODUCTION TO PHOTOGRAPHY
Same as Ph 5) (CSU) (UC credit limited. See a counselor.)

JRN 8 (3)
PUBLIC RELATIONS TECHNIQUES
Hrs. Lec.
study and analysis of projecting a public image by a business, public institution, governmental bureau. Planning of pubsic rela-
tions campaigns for individual personalities, and for institutions and organizations, i.e., philanthropic, health, politital institutions mercial. Use of communications media (radio, television, newsmercial. Use of communications media (radio, television, news-
papers, technical publications, inplant publications) to help papers, technical publications, inplant publications) to help
student planning. Writing of press releases. Planning of press conferences. Preparing a press kit. Publicizing events. (Same as Bus 79) (CSU)

## JRN 9ABC (3-3-3)

MAGAZINE WRITING AND EDITING
3 Hrs. Lec.
Presents the theory and practice of writing and editing such printed materials, as magazines, literarty publications, yearbooks,
handbooks, brochures, and newsletters. Artistic design, prin. ciples of harmony and unity, and creativity in layout are stressed; writing and editing of copy, designing pages, selecting photographs and other illustrations and design materials, preparing hem for production; arranging production schedules; active parincluded. (CSU)

## LA 21 (3)

An introductory course regarding the use of the legal library,
research techniques and drafting legal documents. Includes the research techniques and drafting legal documents. Includes the Penal Code and other criminal statutes and provides an und
standing of the elements of crimes and defenses. (CSU)
LA 22 (3) CIVIL PROCEDURES AND FAMILY LAW
3 Hrs. Lec.
An introductory course in basic civil procedures, court systems, and procedures as they apply to federall, state, and civil laws, Includes topics in family law relative to marriage, community
property, dissolution, parent-child relations, and adoption. (CSU) LA 23 (3)
CIVIL DISCOVERY AND TORTS
A study of the fundamental principles of the law of torts and A study of the fundamental principles of the law of torts and
examination of the techniques of investigation involved in the lawyer's handling of tort claims, including various forms of pleadings.
An examination of the rule of civil evidence and the An examination of the rules of civil evidence and the admissibility
of evidence, depositions, interrogations, admissions, notices to of evidence, depositions, interrogations, admissions, notices to
produce, and related rules of discovery and evidence. (CSU) LA 24 (3)
LA 24 (3)
3 Hrs. Lec.
This course covers the principles of agency, principal and third parties, formation and management of California corporations,
the rights and liabilities of stockhoiders, and corporate reorganizathe rights and liabilities of stockholders, and corporate reorganiza-
tion and dissolution. It includes regulations of state and federal governments relating to income, deductions, exemptions, depreciation, and capital gains and losses. It also includes a study of the bankruptcy laws and procedures with topics on creditors'
rights, debtors' exemptions, and secured transactions. (CSU)

## LA 25 (3)

REAL ESTATE LAW FOR LEGAL ASSISTANTS
The study of the legal background in property ownership, with special reference to the law of California as it applies to community property, conveyances, deeds, trust deeds, mortgages, home-
steads, and estates, etc. (CSU)

## LA 26 (3)

3 Hrs - TRUSTS - PROBATE
A study of the fundamental principles of the law of wills and trusts including simple will and trust forms. An examination of the organization and jurisdiction of a California Probate Court including gift, inheritance and estate taxes, and practice in documenta tion. (CSU)

## LIBRARY TECHNICIAN

## LT 51 (3) <br> INTRODUCTION TO LIBRARY SERVICES

 3 Hrs. Lec.This course is an introduction to libraries and their organization.
It is designed for students interested in It is designed for students interested in employment in school, public, , college libraries as ilibrary tectnicians. Basic philosophy,
procedures, tools, and techniques for library routines are empha procedures,
sized. (CSU)

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 technical processes phase of library operation. (CSU)

## LT 53 (3)

SUPPORT FOR PUBLIC SERVICES
3 Hrs. Lec.
Prerequisites: LT 51 or consent of the instructor. Library public tion through use of card catalogs, indexes, and basic reference tion through
books. (CSU)
LT 54 (3) 3 Hrs. Lec.
Prerequisites: LT 51 or consent of the instructor. A survey course
of the processes necessary for the utilization of the processes necessary for the utilization of audiovisual $m$

## LT 55 (3) <br> 3 Hrs. Lec.

Prerequisites: LT 51 and/or LT 52 or consent of the instructor A course devoted to the development of the skills and practica experiences needed by library technical assistants in support of learns the theory and philosophy underlying the classification systems used in American libraries, classifies and catalogs book and nonbook materials, and is exposed to a variety of work-
experience situations where this knowledge is put to use. (CSU)

## MATHEMATICS

Inrollment in math courses requin a presed噱 or better.
MATH X (3)
algebra
Prerequisite: Completion of Math 51 or satisfactory score on mathematics placement test. A one-semester course which covers the material generally included in a full year high schoo
aisenta coanse

MATH Y (3)
3 Hrs. Lec.
Prerequisite: Completion of Math 51 or satisfactory score on Prerequisite: Completion of Math 51 or satisfactory score on
mathematics placement test. Covers the same material included
in the full year of plane geometry in high school.

## MATH A (3)

NTERMEDIATE ALGEBRA
Prerequisite: Math X and Math Y . This one semester course equivalent to a second year algebra course offered a full year in eqivg school. Topics covered include the real number system, poly nomials, rational expressions, exponential and radical forms, systems of equations and inequalities. (CSU)

SPECIAL NOTE: Mathematics courses $51, \mathrm{X}, \mathrm{Y}$, and A are treated by some universities and state colleges as high schoo subjects. It is the responsibility of the student to check the cata
log of that institution to which he/she expects to transfer to iden tify deficiencies which must be removed or to plan the sequence of courses which must be completed.
MATH 2 (5)
ADVANCD ALGEBRA AND TRIGONOMETRY
5 Hrs. Lec.
Prerequisite: Math A or equivalent. This is a course intended for students who need a thorough foundation before attempting cal
culus. Included will be the study of the real number system; funcculus. Included wil be tha stuay of the real number system; func-
tions with special emphasis on exponential, logarithmic and trigonometric functions; the complex numbers; theory of equations; systems of equations; permutations, combinations, the binomia MATH 3A (5) (CAN MATH 18) 5 Hrs. Lec.
Prerequisite: Math 2 or equivalent. Concepts dealing with limits, continuity, differentiation and applications, integration and appl cations, exponential and logarithmic functions, and other tran cendental functions. (CSU, UC)
MATH 3B (5)
(CAN MATH 20 ANALYTIC GEOMETRY AND CALCULUS
Hrs. Lec.
Prerequisite: Math 3A. Concepts dealing with methods of inte rration, plane analytic geometry, polar coordinates, vectors and parametric equations, and infinite series. (CSU, UC)
MATH 4 (5) (CAN MATH 22) CALCULUS AND DIFFERENTIAL EQUATIONS 5 Hrs. Lec.
rerequisite: Math 3B. Concepts dealing with partial differentia ion, multiple integration, vector analysis and differential equa-
tions. (CSU, UC)

MATH 10A (3) SCHOOL TEACHERS
3 Hrs. Lec.
Prerequisite: Math A, the equivalent, or permission of the instruc tor. Recommended for students who are working towards a teach
ing credential in elementary education. Topics discussed are sets ing credential in elementary education. Topics discussed are sets
and relations, development of the number system from the natural numbers including whole, rational and real numbers, number

MATH 10B (3)
MATHEMATICS FOR ELEMENTARY
CHOOL TEACHERS II
Prerequisite: Math 10A or permission of the instructor. Recom mended for students who are working towards a teaching creden ial in elementary education. Continuation of Math 10A. Cover reas of mathematics from integers to functions. (CSU)

MATH 12 (3)
(CAN STAT 2) EMENTARY STATISTICS
3 Hrs. Lec.
rerequisite: Math A or the equivalent. Graphical representation of statistical data, calculations and uses of various averages, measures of variability, introduction to probability, probability and hypothesis testing (Same as Bus 26 and Psych 13) (CSU UC)

MATH 15 (4)
4 Hrs. Lec. Prerequisite: Math A or equivalent. To prepare for courses for
which calculus is recommended and/or required. To sudy the which calculus is recommended and/or required. To study the
ideas and concepts of advanced mathematics as applied to a modern computerized society. Topics covered include precalculus concepts, functions, differentiation, integration, differential equations, and functions of several variables. (Same as Bus 15) (CSU)

## MATH 47 (3)

PROGRAMMING IN FORTRAN
3 Hrs. Lec.
A practical course covering the fundamentals of Fortran Pro. gramming Language as adaped to a variety of different applicaselor.)

## MATH 50 (1-3)

HEMATICS
${ }^{1-3}$ Hrs. Lec.
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 Technology, Welding, Agricultural Engineerning, and Physically
Limited. The course is taught on a variable unit basis in three oneunit segments. The student may exit or continue at the end of each segment.
The first unit is a review of basic skills dealing with addition,
subtraction, multiplication and division of whole numbers, comsubtraction, multiplication and division of whole numbers, common fractions, decimal fractions and percents.

The second unit is an introduction to or review of exponents,
factors, squares and square roots. The use of measurement in factors, squares and square roots. The use of measurement in ing and calculating areas and volumes of geometric figures.
The third unit applies mathematics to the areas of agriculture, auto technology and welding. Tools for measuring, ratio and proangles will be covered. This unit also introduces the student to basic algebra. The completion of all three units will prepare the student for
Math 51 . This course is not open to students who have completed Math 51. (Same as Aget 50, Auto Tech 50, PL 50 and Weld 50 ) MATH 51 (3)
BASIC MATHEMATICS
3 Hrs. Lec.
Brief review of arithmetic including fractions, decimals, percent, square root, and an introduction to algebra. This course is not
open to students having satisfactory scores on mathematics placement tests.
MATH 57 (3)
PROGRAMMING IN BASIC
3 Hrs. Lec.
(Same as Bus 57) (CSU) (UC credit limited. See a counselor.) MATH 58 (3)
COMPUTER PROGRAMMING IN PASCAL
3 Hrs. Lec.
Prerequisite: Math proficiency equivalent to Math $A$ or permission of instructor. Introduction to machine and data organization. Derign and analysis of algorithms, flowcharts, and complete programs. Extensive programming of problems on computers in
Pascal. (CSU) (UC credit limited. See a counselor.)

MATH 60 ( 1 )
2 Hrs. Lab.
Prerequisite: Concurrent enrollment in Math/Aget/Auto Tech/
PL/Weld 50, Math 5 lor Math X Designed PL/Weld 50 , Math 51 or Math X. Designed for the student needing additional help and/or personal instruction.

MOTION PICTURE PRODUCTION
MPP $10(3)$
INTRODUC
INTRODUCTION TO MOTION PICTURE PRODUCTION 3 Hrs. Lec. Plus production practice hours to be arranged including scripting, shooting, and editing. The college will provide the necessary equipment. Students supply materials. (Same as Eng 56) (CSU) (UC credit limited. See a counselor.)
MPP 11 (3)
FUNDAMENTALS OF SOUND MOTION PICTURE PRODUCTION
Prerequisite: MPP 10 or equivalent. 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. (CSU)
MPP 12 (3)
FUNDAMENTALS OF DOCUMENTARY FILM PRODUCTION
3 Hrs. Lec.
Prerequisite: MPP 11 or equivalent. An 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 pro-
duce a five to 10 minute picture. Students supply materials. (CSU) MPP 13 (1)
TV STAIION OBSERVATION, OPERATION AND MANAGEMENT I
2 Hrs. Lab.
Prerequisite: Completion of MPP 10 , enrollment in MPP 11, or its completion and permission of the instructor. The student shall
observe the various activities and departments at a television station. He/she 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. MPP 54 (3)
INTRODUCTION TO FILM HISTORY AND CRITICISM 2 Hrs. Lec. 2 Hrs. Lab.
(Same as Eng 54, Hum 54) (CSU, UC)
MUSIC
MUS 7 (3)
INTRODUCTION TO MUSIC FOUNDATIONS
An introduction to basic concepts of music. The development of the skills and knowledge needed to read music, to hear music. and to use some instrument (including the voice) with skill.
(CSU, UC)

BEGINNING MUSICIANSHIP
2 Hrs. Lec.
Prerequisite: Mus 7 or approval of instructor. Required of all
music majors. A course designed to present basic skill and theory music majors. A course designed to present basic skills and theory of or further studies in music. Skills to be studied and developed are sight-singing, ear-training, keyboard harmony, and basic piano skills. (CSU, UC)

## MUS 8B (2)

## HEGINNIN

Prerequisite: Mus 8A. Continuation of Mus 8A. (CSU, UC)
MUS 8C (2)
INTERMEDIA

## Hrs. Lec.

Prerequisite: Mus 8B. A continuation of Mus 8A and 8B to crease skills in sight-singing, ear-training, and keyboard ha mony. (CSU, UC)
MUS 8D (2)
2 Hrs. Lec.
Prerequisite: Mus 8C. A continuation of Mus 8C. (CSU, UC)
MUS 9A (3)
Hrs. Lec.
Prerequisite: Mus 7 or Mus 8 A concurrently or consent of the ditional diatonic harms, four noice withoard his ICSy. Tra

## MUS 9B (3)

HARMONY
Prerequisite: Mus 9A. A continuation of Mus 9A. (CSU, UC)
MUS 9C (3)
NTERMEDIATE HARMONY
Prerequisite: Mus 9B. A comprehensive study of the theory of nusic to include skills and creative experiences in traditiona armony. An introduction to 20th century harmonic and melodi

MUS 9D (3)
NTERMEDIATE HARMONY
Prerequisite: Mus 9 C . A continuation of Mus 9 C . (CSU, UC)
MUS 10A (1)
BEGINNING GROUP PIANO I
1 Hr. Lec. 2 Hrs. Lab.
A course structured to correlate those musical skills, techniques and understandings which are basic to comprehensive keyboard
musicianship at the early level of study. (CSU) (UC credit limited See a counselor.)
MUS 10B (1)
1 Hr. Lec. 2 Hrs. Lab.
1 Hr. Lec. 2 Hrs. Lab.
Prerequisite: Mus 10 A . A continuation of Mus 10A. (CSU) (UC
credit limited. See a counselor.)
MUS 11A (1)
NTERMEDIATE GROUP PIANO I
Hr. Lec. 2 Hrs. Lab
10 A and 10 B or equivalent. A course struc tured for those students who have attained the performance skil competencies required in Beginning Group Piano. (CSU) (UC

MUS 11B (1)
NTERMEDIATE GROUP PIANO II
1 Hr. Lec. 2 Hrs. Lab.
(CSU) (UC limited. See a counselor.)
MUS 12 (1)
BEGINNING CLASS GUITAR
A basic course on how to accompany with the guitar. Stress will be placed on tuning, chording, different types of strums and elementary transposition. (CSU) (UC credit limited. See
counselor.) counselor.)

## MUS 13 (1)

## NTERMEDIATE CLASS GUITAR

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 altered chords; 3. Advanced picking techniques. (CSU) (UC credit limited. See a counselor.)
MUS 15A (1)
EGINING CLASS VOIC
Hr. Lec. 2 Hrs. Lab.
The student receives guidance in the performance and apprecia or good vocal technique. Principles are applied through group for good vocal technique. Principles are applied through group MUS 15B (1)
位
1 Hr. Lec. 2 Hrs. Lab.
rerequisite: Mus 15A or its equivalent. A continuation of Mus
15SU) (UC credit linited MUS 16 (1)
NTERMEDIATE CLASS VOICE 1 Hr. Lec. 2 Hrs. Lab.
rerequisites: Mus 15A and Mus 15B or their equivalent. A con
nuation of Mus 15B. (CSU) (UC credit limited. See anselor MUS 17ABCD (1-1-1-1)
2 Hrs. Lec. 1 Hr. Lab.
A study and performance representative of music of all styles, sacred and secular, a cappella, and accompanied. A minimum o six outside performances required each semester. (CSU) (UC
US 18ABCD (111)
MUS 18ABCD (1-1-1-1)
2 Hrs. Lec. 1 Hr. Lab.
rerequisite: Permission of the instructor. A study and perform ance of literature for a small orchestra. Performances in local com munities and on campus are required. Field trips to other musica
events will be included to help performers develop efficient listen events will be included to help performers develop efficient listen performances are included. (CSU) (UC credit limited. See a ounselor.)

MUS 19ABCD (1-1-1-1)
INSTRUMENTAL ENSEMBLE
2 Hrs. Lec. 1 Hr . Lab.
A performance organization specializing in literature for string, brass, woodwind, and percussion ensembles, or any combination
hereof. Designed for musicians who wish to explore rehearse and perform literature of all styles and periods. (CSU) (UC credit limited. See a counselor.)

MUS 20A (3)
3 Hrs. Lec.
The historical development of music with a study of various types
of music from stylistic periods as a medium of cultural develop of music from stylistic periods as a medium of cultural develop-
ment. Intended as a background toward further studies in music for the music major and persons interested in a thorough background for enjoying music. (CSU, UC)
MUS 20B (3)
HISTORY AND LITERATURE OF MUSIC 3 Hrs. Lec.
A
A continuation of Mus 20A. (CSU, UC)

## MUS 21ABCD (1-1-1-1)

BRASS, WOODWIND AND PERCUSSION METHODS 1 Hr. Lec. 2 Hrs. Lab.
string, and percussion instruments. (CSU) See a counselor.)
MUS 25ABCD (1-1-1-1)
STAGE BAND
2 Hrs. Lec. 1 Hr. Lab.
Prerequisite: Mus 21AD or audition and permission of instructor. A performance 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. (CSU) (UC credit limited. See a counselor.)

## MUS 26ABCD (1-1-1-1)

3 Hrs. Lab.
Prerequisite: Permission of the instruictor. Enrollment contingent upon participation in campus major musical production. Maximum credit, 1 unit per semester for four semesters. Hours to be
arranged. (CSU) (UC credit limited. See a counselor.)

## MUS 27ABCD (1-1-1-1)

$2 \mathrm{Hrs}$. Lec. 1 Hr Lab
Prerequisite: Mus 21 AD or audition and permission of instructor. A performance organization specializing in literature for the wind band. Students will be affordded the opportunity to develop the
musical skills and understanding necessary for the highest levels musical skills and understanding necessary for the highest levels
of expressive ensemble performance. Scheduled public performof expressive ensemble performance. Scheduled public perform-
ances are a part of the course obligations. (CSU) (UC credit limited. See a counselor.)
MUS 28ABCD (1-1-1-1)
COLLEGE-COMMUNITY CHORUS
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 litera-
ture. Introduction to music theory as a means of learning to read music rather than learning by rote. (CSI) (UC credit limited. See a counselor.)
MUS 29ABCD (1-1-1-1)
ESTUDIANTINA
2 Hrs. Lec. 1 Hr . Lab
2 Hrs. Lec. 1 Hr. Lab.
Open to all students, particularly those of Mexican background
and culture who wish to perform music somer and culture who wish to periorm music stemming from the tradi-
tion of "tunas", developed during the Renaissance in Spain's tion of "tunas", developed during the Renaissance in Spain's
large and influential universities. For singers and/or instrumentalists playing accordion, castanets, guitar, mandolin, string

MUS 30 (3)
INTRODUCTION TO MUSIC LITERATURE AND LISTENING
3 Hrs. Lec.
3 Hrs. Lec.
An introduction to music literature with emphasis on the listening experience. Students study the expressive materials of music and
the major forms of $m$ and understanding nuscessary for lifelong music listening experiences. (CSU, UC)
MUS 31 (3)
INTRODUC
INTRODUCTION TO TWENTIETH-CENTURY MUSIC 3 Hrs. Lec.
An introduction to contemporary music. Study includes twenti-eth-century art music, country western, and popular music with emphasis on the social and artistic factors that influence the development of each. (CSU, UC)

## MUS 32ABCD ( 1 A

1 Hr. Lec. .5 Hr. Lab. to be arranged
Prerequisites: Declared music major, regularly enrolled in the 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 One section meeting per week on campus, in addition to private
instruction. As required conditions, the student must: 1) Secure a teacher approved by the College. 2) Take a minimum of one 30 minute lesson per week. 3) Meet. one hour of class per week on
campus for performance as scheduled and turn in weekly lesson campus for performance as scheduled and turn in weekly lesson
attendance form. (CSU) (UC credit limited. See a counselor.) MUS 64 (1)
COLLEGE-COMMUNITY BAND
A performance organization specializing in a wide range of litera ture for the wind band. The primary objective will be to provid the continuing music performing experiences needed by community adults, music educators, and advanced high
dents. (CSU) (UC credit limited. See a counselor.)

NATURAL SCIENCE
NAT SCI 51 (3)
SURVEY OF THE EARTH SCIENCES
3 Hrs. Lec.
A junior college general education course to acquaint the student with some principles of the earth sciences including sections on
astronomy, meteorology, oceanography, geology, and physical geography. Not open to students with credit in Geog 1, Geog 2, geography. Not open
Geol 1 A , or Astron

## NURSING

Imperial Valley College offers a career ladder nursing program. fudents entering the program currently have two options:
Vocational Nurse - the student is eligible to write the state board examination for licensure as a vocational nurse upon
successful completion of the designated prerequisites and successtul completion of the designated prerequisites and
Semester I, II and III of the nursing curriculum as outlined
on pase 99 of the catalog.
2. Associate Degree Nurse - the student is eligible to write the state board examination for licensure as a registere nurse upon successful completion of the designated pre requisites and Semesters I, II, III and IV of the
curriculum as outlined on page 99 of the catalog.
Students who complete the Vocational Nurse requirements including prerequisites and general education courses will be
granted a Certificate of Completion from the college. Student who complete the total program, including prerequisites and general education courses, will be granted an Associate of Scienc

The Imperial Valley College Nursing Program is fully accredited
by the California Board of Registered Nursing and the Board of by the California Board of Registered Nursing and the Bo

## Admission to the Program

All students who have completed the academic prerequisites with a grade of "C" or better and are in good health are eligible for admission. Admission requirements for beginning students ar as follows:
. Graduation from an accredited high school or the equiva lent.
2. Admission to the college
3. Completion of Eng 1A, Eng 11, and Math X
4. A minimum G.P.A. of 2.0 in all prerequisite course work
5. Prior to the beginning nursing classes, students are expect ed to have a physical examination which includes a tuber culin skin test, $X$-ray when needed, and current immuniza Office.
Students are responsible for prerequisite requirements for gener education courses. Transportation to class and to clinical labora tory is the responsibility of the student.
Application Procedure

1. Apply for admission to the college
2. Make an appointment with the counselor to take the college placement tests in Math and English.
3. Submit two transcripts from high school and previous col lege work. Send one copy to the college admission office保
4. Apply for admission to the nursing program

Students will be admitted to the program each semester. Applicauntil August 1 for Spring admission. All students will be notified by mail approximately six weeks later
Advanced Placement
Applicants who have had previous nursing education or nursin work experience in

1. Accredited Vocational or Practical Nursing Program
2. Nurse's Aide or nonaccredited Vocational Nursing Pro gram
3. Accredited Professional Nursing Courses
4. Accredited Psychiatric Technician Courses
5. Armed Services Nursing Courses
6. Certified Nurse Assistant Course

Eligibility for transfer/challenge credit and/or advanced placemen is determined on an individual basis by the Division of Nursing Courses in natural sciences, taken within five years, that mee
program requirements will be accepted. Behavioral and socia science courses will be evaluated for recency on an individua basis.

Licensed Vocational Nurses who seek advanced placement in the registered nurse curriculum have two alternatives: 1) complete the degree program, or 2) complete selected courses which mee
the California Board of Registered Nurses thirty (30) unit optio requirements. Specific details are available in the Nursing Office Preference will be given to those applicants who have completed applications on file in the Nursing Office two months prior to
starting nursing courses. tarting nursing course

## Progression Policies

1- The required nursing and general education courses outline on page 99 of the catalog must be taken in the sequence listed.
Students may take some or all general education courses before Students may take some or all general education courses before entering the program but may not complete them later than the
semester indicated on page 99 of the catalog. The Nursing Depart ment's English and Math requirements must be met prior to grad uation.
2- A grade point average of 2.0 must be maintained in every cours required by the nursing curriculum. A student who makes a grad bwer than a 2.0 in any course required by the nursing program .
3 - Required courses in Microbiology and Anatomy/Physiolog aken more than five years previous to enrollment must be $r$ peated Other courses are evalute

4 - Nursing courses may be repeated one time. If a student is unsuccessful a second time, he/she must contact the Director o Nursing Education and Health Technologies who will evaluate the a plan of remediation.
All Nursing (NS) classes except NS 2C are nine-week classe NS 2 C is a fourteen-week class. Actual class hours are in parento schedule skills laboratory practice time.

## NS 1A (R) (4)

NTRODUCTION TO PATIENT CARE
Prerequisite: HT 1, Anat 10, Psych 1A, admission to the Nursin Program. Theory and skills basic to the provision of safe nursing care are introduced in the classroom and the skills laboratory Components of the nursing process are studied. Parameters of ormal individual explored. (CSU)

NS 1A (V) (4)
INTRODUCTION TO PATIENT CARE I 2 Hrs. Lec. 6 Hrs. Lab.
Prerequisite: ThT 1, Anat 6, Psych 1A, admission to the Nursin Program. Theory and skills basic to the provision of safe nursin
care are introduced in the classroom and the skills laboratory. care are introduced in the classroom and the skills saboratory
Components of the nursing process are studied. Parameters o health are defined and the physical and psychological needs of the

## NS 1B (R) (4)

2 2 Hrs. Lec. 6 Hrs. Lab.
Prerequisite: NS 1A (R), NS $1 C$ (R) or permission of the instructor.
Communication skills are presented in this Communication skills are presented in this course. Basic psycho-
logical and physiological concepts related to stress that cause disruptions in the individual's ability to adapt his/her environment are presented in the classroom. Concurrently in clinical sessions, the student relates learned skills and theory to the care of patients with well-define
setting. (CSU)
setting. (CSU)
NS 1B (V) (4)

## 2 Hrs. Lec. 6 Hrs. Lab

Prerequisite: NS 1A (V), NS 1C (V) or permission of the instructor. Communication skills are presented in this course. Basic psychological and physiological concepts related to stress that
cause disruptions in the individual's ability to adapt to his/her cause disruptions in the individual's ability to adapt to his/her
environment are presented in the classroom. Concurrently in clinical sessions, the student relates learned skills and theory to the care of patients with well-defined commonly occurring illnesses in the hospital setting. (CSU)

## NS 1C (R) (1.5)

PHARMACOLOGY
1.5 Hrs. Lec.
Prerequisite: Admission to the Nursing Program or permission of the instructor. An introductory course in Pharmacology designed to assist the student to accuire basic skills in drug dosagese calculations and the administration of medications. A skills laboratory requirement is included. Clinical application will be integrated
into Nursing $1 \mathrm{~B}(\mathrm{R})$ (CSU)

## NS 1C (V) (1.5)

1.5 Hrs. Lec.
1.5 Hrs. Lec.
Prerequisite: Admission to the Nursing Program or permission of Prerequisite: Admission to the Nursing Program or permission of
the instructor. An introductory course in Pharmacology designed
to assist the student to acquire basic skills in drug dosage calcu. to assist the student to acquire basic skills in drug dosage calcu.
lations and the administration of medications. A skills laboratory lations and the administration of medications. A skills laboratory
requirement is included. Clinical application will be integrated into NS 1B (V). (CSU)

NS 2A (R) (5.5)
2.5 Hrs. Lec. 9 Hrs.
2.5 Hrs. Lec. $9 \mathrm{Hrs}$. Lab.
Prerequisite: $N S ~ 2 B(R)$ or permission of the instructor. The Prerequisite: NS 2B (R) or permission of the instructor. The
nursing process is used to assess the needs of and devise a plan of care for the pregnant woman through the maternity cycle. Con-
sideration is given to the physiological, psyychosocial, cultural sideration is given to the physiological, psychosocial, cultural,
and economic factors which have impact on the mother, infant, and the family as a whole. Concurrent classroom and clinical experience are provided. (CSU)

## NS 2A (V) (5.5)

THE MATERNITY CYCLE
2.5 Hrs. Lec. 9 Hrs. Lab.
2.5 Hrs. Lec. 9 Hrs. Lab.
Prerequisite: $N S$ 1B(V), NS $2 B$ (V) or permission of the instructor. The nursing process is used to assess the needs of and devise a plan of care for the pregnant woman through the maternity cycle.
Consideration is given to the physiological, psychosocial, culConsideration is given to the physiological, psyychosocial, cultura, and economic factors which have impact on the mother,
infant, and the family as a whole. Concurrent classroom and
clinical experience are provided. (CSU)

NS 2B (R) (5.5)
COMMON HEALTH PROBLEMS I 2.5 Hrs. Lec. 9 Hrs. Lab.

Prerequisite: $N \mathrm{NS} 1 \mathrm{~B}(\mathrm{R})$ or permission of the instructor. The first
of three nine.week of three nine-week courses designed to provide a progressive
and sequential study of common well-defined health problems of and sequential study of common well-defined health problems of
the cardiovascular and respiratory systems are presented. Transithe cardiovascular and respiratory systems are presented. Transi-
tion frem wellness to illness is emphasized. Concepts acquired
in previous courses are applied with increasing complexity to in previous courses are applied with increasing complexity to
caring for individuals of all ages. Physiological, psychological, caring for individuals of all ages. Physiological, psychological,
emotional, cultural, and social concepts are integrated into the emotional, cultura, and social concepts are integrated into the planning and implementation of nursing care. Conc
room and clinical experience are provided. (CSU)
NS 2B (V) (5.5)
COMMON HEALTH PROBLEMS I
2.5 Hrs. Lec. 9 Hrs. Lab.

Prerequisite: NS 1 Br (V) or permission of the instructor. The first
of three nine.week courses designed of three nine-week courses designed to provide a progressive
and sequential study of common well-defined health problem of and sequential study of common well-defined health problems of
the cardiovascular and respiratory systems are presented. Transition from wellness to illness is emphasized. Concepts acquired in previous courses are applied with increasing complexity to
caring for individuals of ail lages. Physiological, emotional, culcaring for individuals of all ages. Physiological, emotional, cu-
tural, and social concepts are integrated into the planning and tural, and social concepts are integrated into the planning and
implementation of nursing care. Concurrent classroom and clini-
cal experience are provided. (CSU) cal experience are provided. (CSU)
NS 2C (R) (2)
2 Hrs. Lec
Prerequisite: $N S 1 B(R)$, NS $1 C(R)$ or permission of the instruc-
tor. This course focuses on those tor. This course focuses on those components of pharmacology
related to safe nursing care. It includes information about the seneral classification of drugs and principles of therapy relate to the effects, actions, and therapeutic use of each drug. The nurs
ing actions and rationale for nursing actions are covered. Clinica ing actions and rationale for nursing actions are covered. Clinical
application is integrated into the clinical nursing courses. (CSU)

NS 2C (V) (1.5)
PHARMACOLOGY II
1.5 Hrs. Lec.
Prerequisite: NS $1 B(V)$, NS $1 C(V)$ or permission of the instruc. Prerequisite: NS 1B (V), NS 1C (V) or permission of the instruc
tor. This course focuses on those components of pharmacology related to safe nursing care. It includes information about the general classification of druys and principles of therapy related
to the effects, actions, and therapeutic use of each drug. The to the effects, actions, and therapeutic use of each drug. The Cliningl application is integrated into the clinical nursing courses. (CSU)

## NS 3A (R) (6.5)

COMMON HEALTH PROBLEMS II
${ }_{2} .5 \mathrm{Hrs}$ Lec. 12 Hrs. Lab.
Prerequisite: $N S 2 A(R)$, $N S 2 C(R), N S 2 B(R)$, $N S 3 C(R)$ or per-
mission of the instructor mission of the instructor. The second of three nine-week courses
designed to provide a progressive and sequential study of common well-defined health problems is presented. Emphasis is placed on the immune, endocrine, hematological, neurological and musculoskeletal systems. Concepts acquired in previous courses are applied with increasing complexity in caring for ind
viduals of all ages. Physiological, psychological emotional cultural, and social aspects are integrated into the planning and implementation of nursing care. Concurrent clinical experiences are provided whenever possible. In conjunction, appropriate
nursing skills are learned in the classroom. (CSU)

NS 3A (V) (6.5)
COMMON HEALTH PROBLEMS II
2.5 Hrs. Lec. 12 Hrs. Lab.

Prerequisite: NS $2 A$ (V), NS $2 C(V)$, NS 2B $(V)$, NS $3 C(V)$ or per
mission of the instructor The dission of the instructor. The second of three nine-week courses designed to provide a progressive and sequential study of com-
mon well-defined health problems is presented. Emphasis is placed on the immune, endocrine, hematological, neurological, and musculoskeletal systems. Concepts acquired in previous
courses are apled courses are applied with increasing complexity in caring for indi-
viduals of all ages. Physiological, psychological tural, and social aspects are integrated into the planning and implementation of nursing care. Concurrent clinical experiences
are provided whene are provided whenever possible. In conjunction, appropriate nurs ing skills are learned in the classroom. (CSU)
NS 3B (R) (6.5)
COMMON HEALTH PROBLEMS II
Prerequisite: NS 2A Ars. Lab.
$3 A(R)$ or permission of the instructor $2 \mathrm{R} ~ 2 \mathrm{~B}(\mathrm{R})$, NS $3 \mathrm{C}(\mathrm{R})$, NS designed to provide a progressive and sequential study of course mon well-defined health problems is presented in Nursing 3B. The
concepts from previous courses are apled concepts from previous courses are applied with increasing com-
plexity to the caring of individuals throughout the lifespan. The pathophysiology, treatment, and nursing management of common disorders involving the reproductive, gastrointestinal and renal systems are studied in a progressive sequence across the
lifespan. Principles of growth and development ane renter The nursing process is utilized by the student to identify the prob. lems and nursing interventions needed for selected patients in the clinical setting. (CSU
NS 3B (V) (6.5)
COMMON HEALTH PROBLEMS III
2.5 Hrs. Lec. 12 Hrs. Lab.
$3 A(V)$ or permission of the instructor The final , NS 3C (V), NS designed to provide a progressive and sequential study of com mon well-defined health problems is presented in NS 3 B (V). The concepts from previous courses are applied with increasing com plexity to the caring of individuals throughout the lifespan. The
pathophysiology, treatment, and nursing management of common disorders involving the reproductive, gastrointestinal and renal systems are studied in a progressive sequence across the
lifespan. Principles of growt lifespan. Principles of growth and development are reinforced.
The nursing process is utilized by the student to identify the problems and nursing interventions needed for selected patients in ems and nursing interventions needed for selected patients in
the clinical setting. (CSU)

NS 3C (R) (1)
PATIENT CARE MANAGEMENT
1 Hr. Lec.
Prerequisite: NS 2B $(R)$ or permission of the instructor. To be
taken concurrent with NS $2 A(R)$ An and management process as it relates to manazagement leadership and management process as it relates to management of patient
care is presented. Clinical application is integrated into NS $3 A(R)$, NS 3B (R) and all subsequent nursing courses. (CSU)

NS 3C (V) (.5)
PATIENT CARE MANAGEMENT
${ }^{.} 5 \mathrm{Hr}$. Lec.
Prerequisite: NS 2B (V) or permission of the instructor. To be
taken concurrent with NS $2 A(V)$. taken concurrent with NS 2A (V). An overview of the leadership
and management process as it relates to management of patient care is presented. Clinical application is integrated into NS 3 A (V), NS 3B (V) and all subsequent nursing courses. (CSU)

## NS 4A (R) (4.5) <br> ON HEALTH PROBLEMS IV

Prerequisite: NS 3 B (R), NS
tor. This course is concerned with an indission of the instrucstress and crisis. The promotion of mental health, intervention in maladaptive disorders, and the rehabilitation of chronic dis-
orders is presented in concurrent orders is presented in concurrent classroom and clinical settings.
Cultural and social attitudes toward behavion accepted norms is discussed. (CSU)

## NS 4B (R) (4.5)

2 Hrs.
${ }^{2}$ Hrs. Lec. 7.5 Hrs . Lab
Prerequisite: $\mathrm{NS} 4 \mathrm{~A}(\mathrm{R})$ or permission of the instructor. In-depth
study of patients with study of patients with increasingly complex health problems is
presented. The nursing process is used to presented. The nursing process is used to plan and implement
nursing care for a group of patients. Concurrent ence in geriatric and advanced medical-surgical nursing is
arranged. (CSU)
NS 4C (R) (1)
NURSING TRENDS
${ }_{1}^{1 \text { Hr. Lec. }}$
issues affecting nursing permission of the instructor. Curren delivery system, and legal and ethical aspects of health care are integrated into the clinical component of NS 4B. Upon successful examination for Registered Nurse. (CSU) completion
NS 5 (1-3)
-3 Hrs. Lec RANSITION COURSE
${ }_{\text {1-3 Hrs. }}^{\text {Pec. }}$ Prequisite:
permission of instructor. This course is desient requirements or advanced placementrtor. This course is designed to prepare the
associate Associate Degree Nursing program. Students may take variable units from one to three, according to their placement status. Concology, maternity nursing and nursing interventions for selected
health conditions. (CSU)

## NURSING CONTINUING EDUCATION

## Registered Nursing

Prospective students are advised to check with the college pre vious to each semester concerning continuing education courses
to be offered. New courses are offered periodically health agency and health personnel needs are identified. and healh personnel needs are identified.
An enrollment fee will be charged. All courses have been approved
by the California Board of Registered Nursing No. 00294, and meet the requirements forsing, BRN Provider RN 37 (1)

## 1 Hr . Lec

RN 37 (1)
BASIC ARR
Prerequisite: Permission of the instructor. A basic program using
a systematic approach a systematic approach to interpretation and recognition of cardiac
arrhythmias in the monitored hin treatment and/or mursing intervention required. Suitable for the ICU/CCU nurse or nursing assistant, beginning cardiopulmonary technician, the med/surg nurse who cares for the patient on tele.
metry, or for inactive nurses metry, or ior inactive nurses who wish to update their knowledge

RN 38 ( $1 / 2-3$ )
$1 / 2-3 \mathrm{Hrs}$. Lec.
${ }^{1 / 2-3 ~ H r s . ~ L e c . ~}$ issues in community health care and/or nursing will be offered each semester for credit and/or expanding and updating their tinuing Education credit and/or expanding and upda as
knowledge in certain health related fields. Such topics
and Arrhythmia Recognition, Neonatal Nursing, Body Fluids and Electrolytes, Creative Supervisory Skills, Renal Dialysis, Respiratory Care, CPR Provider, CPR Instructor, Advanced bite 2 hours port, Pharmacology will be included. Programs will
or more in length; attendance hours accumulated within one or more in length; a tindinum of 9 will earn $1 / 2$ college unit and
semester totaling a minimu increments of 9 hours thereafter will earn $1 / 2$ college unit up io a total of 54 attendance hours, which will earn
certificates will be issued for each program. (Same as VN 38 , certificates will
HA 38) (CSU)
RN 39 (112-6)
NURSING THE CRITICALLY ILL
$1 / 2-6$ Hrs. Lec.
Prerequisite: $\mathrm{HA} /$ RN/VN 37 or permission of the instructor. This Prerequisite: HA/RN/VN 37 or permission of the instructor. This course will consist of a variety of lectures, seminars, and work-
shops covering current issues related to the critically ill, and will shops covering current issues related to me crice hemodynamic monitoring, advanced pacemaker insertion, advanced Ekg recog nition will be included. A part of this course will consist of review of anatomy and altered pathophysioging,
management of problems related to the following systems: cardiomanagementofrobry, renal, neurological, gastrointestinal an vascular, respiratory, renal, neurol
endocrine. (Same as VN 39) (CSU)
RN 40 (2)
1.8 Hrs. Lec. .3 Hr Lab.

Prerequisite: Permission of the instructor. A course of instruc. tion in intravenous therapy and the practice of venipuncture and blood withdrawal. Total hours for completion of course are 33 hours le
(CSU)
RN 41 (2) 2 Hrs. Lec.
e: Completion of an RN program or permission of the Prerequisite: Completion of an RN program or permission of the
instructor. Class is limited to 15 students. Attendance policy instructor. Class is limited to
requires makeup of any absences according. to instructor assign. requires makeup of che clinils are in more demand than the nurse's
ment. Few clical mbility to make rapid accurate patient assessments. This course is designed to delineate assessment parameters and the common
variations in the adult patient. Students will have the opportunity variations in the adult patient. Students will have the opportunity
to idenitfy and discuss common findings, observe assessment techniques, and do return demonstrations. (CSU)

## Vocational Nursins

Prospective students are advised to cherk with the college pre. Prospective students are advised to cherk with the college pre vious to efach semester concersing courses are offed periodically as community health agency and health personnei needs are identified. An enrollment fee will be charged. All courses have been approved by the xalifornia Board ofT Protionar No. 00294, and meet the require
xaminer ments for relicensure.
VN 37 (1)
BASIC ARRHYTHMIA RECOGNITION ${ }_{1} 1 \mathrm{Hr}$. Lec.

VN 38 ( $1 / 2-3$ )
$1 / 2-3$ Hrs. Lec.
VN 39 ( $1 / 2-6$ )
NURSING THE CRITICALLY ILL
$1 /-6$ Hrs. Lec.
(Same as RN 39 ) (CSU)
VN 40 (2)
VN 40 (2) 1.8 Hrs. Lec. 3 Hr. Lab.

Graduates of Hospital Diploma Schools of Nursing
The A.S. Degree will be awarded to graduates of hospital diploma The A.S. Degree will be awardel to graduates of hos criteria and com-
schools of nursing who meet all of the following plete the following program:

Criteria

1. Graduate of a state-accredited hospital school of nursing which had a curriculum covering the five basic areas of nurs.
ing (medicine, surgery, obstertics, peLicensure.
2. Present California Registered Nurse Licensur
3. Present enrollment at Imperial Valley College.
Program to be Completed

 Degree Nursing Program.)
General Education courses to meet college
requirements for graduation ................... 20 Units
In order to allow the graduate to articulate with baccalaureate rend that the following courses be taken within the general education requirements Anatomy 8, Human Physiology 1, Biology 21, Psychology 1A Anatomy 8, Human Physiolo
Sociology 1, Psychology 35.)
Applicants for this degree must verify items 1 and 2 of the Criteria Applicants for this degree must verify items 1 and 2 or the Certer fo
with the Nursing Director. Check with Counseling Center for wrocedure to follow.

## NUTRITION

NU 1 (3)
3 Hrs. Lec.
Prerequisite: Permission of the instructor. This course includes Prerequisite: Permission sanitation and safety and the application
the basic principles of sal the basic principles of sanitation service operation including OSHA regulations. Emphasis will be placed on the principles of food preparation and storage; safety $p$
prevention and control. (CSU)

## $\mathrm{NU} 2(3)$

(CAN H EC 2)
UNDATIONS OF NUTRITION
3 Hrs. Lec.
Prerequisite: Permission of the instructor. Scientific concept of Prerequisite: Permission the function of nutrients in the basic life
nutrition relating to the processes. Examines the major aspects of nutritional services
within a health care facility, community or school food services within a health care facility, community or school nutrition applica program. The course includes chile and adaus. (CSU)

## NU 3 (3)

OOOD PRODUCTION MANAGEMEN
2 Hrs . Lec. 2 Hrs . Lab
Prerequisite: Permission of the instructor. Organization and responsibilities. Quantity food preparation with emphasis on ood production management, effective management of time and equipment, and the responsibilities of the production supe
visor. (CSU
NU 4 (3)
UUPERVISION FOR FOOD SERVICES
2 Hrs. Lec. 2 Hrs. Lab.
rerequisite: Permission of the instructor. This course include procedures and problems met by food service operations in devel sibility of selection, placement, orientation, training, counseling ating and promotion of employees and understanding human behavior as it relates to personnel settings. (CSU)

## NU 5 (3)

Hrs. Lec.
Prerequisite: Permission of the instructor and completion of core courses. The principles of nutrition as they relate to special an abnormal physical conditions including the effect of proper
nutrition. Current knowledge and information on modified diets used in the treatment of abnormal physical conditions. Emphasis on rationale for the diet and how these modifications will improv

NU 6A (3)
FIELD EXPERIENCE - DIETARY MANAGER
Hrs. Lab.
Prerequisite: Permission of the instructor and completion of core
courses. Supervised field in an on-the-job experience setting. (CSU)

NU 6B (3) MANAGER
6 Hrs. Lab.
Prerequisite: Permission of the instructor and completion of core and purchasing in a job related setting. (CSU)

NU 7 (3)
NTRODUCTION TO HOSPITALITY INDUSTRY
Hrs. Lec. 2 Hrs. Lab
rerequisite: Permission of the instructor and completion of core courses. Principles and practices of hospitality as it relates to food ions, public relations and community relation issues are ex plored. (CSU)

NU $8{ }^{(3)}$
MENU PLANNING AND PURCHASING
3 Hrs. Lec
rerequisite: Permission of the instructor and completion of core ourses. The principles of menu planning and purchasing of food services including lamily and child nutrition. Nutrition manager so that they will be better able to plan menus that meet nutritiona budgetary constraints, and to plan menus that are acceptable. (CSU)

## PHIL 1A (3) <br> NTRODUCTION TO PHILOSOPHY

3 Hrs. Lec.
ans interpretation of the nature and meaning of reality. Empha sis placed upon the e
problems. (CSU, UC)
PHIL 1B (3)
NTRODUCTION TO PHILOSOPHY
The place of philosophy in intelligent living and the methods and significance of philosophical inquiry. Emphasis is placed upo Phil 1A. (CSU, UC)
PHIL 10 (3)
(CAN PHIL 6)
Hrs. Lec.
An introduction to deductive and inductive logic. Attention ocused upon the relationship between logic and language falla
cies, and the use of logic in everyday life. (CSU, UC)

PHIL 11 (3)
Hrs. Lec
An introduction to significant and typical value theories and systems, and of the concrete problems such theories seek to explain. Emphasis placed upon teaching students to critically
analyze their own value systems. (CSU, UC) PHIL 25 (3)
RELIGIONS OF THE MODERN WORLD
An introduction to the various contemporary religions of the An introduction to the various contemporary religions of the
world with an emphasis on their historical development. Study o basic beliefs of such religions as Hinduism, Buddhism, Taoism Zen. (CSU, UC

PHOTOGRAPHY

PH 5 (3)
INTRODUCTION TO PHOTOGRAPHY 2 Hrs. Lec. 3 Hrs. Lab.
The basic theory, techniques, skills, and artistic expression of photography. Consideration will be given to factors such as cor ferent types of film and filters, lighting, principles of composition and the legal aspects of photography. Print production will be covered by sections on darkroom techniques, photographi
chemicals, development of film, contact printing, and enlarge ment techniques. The student will provide an adjustable camera or assignment work. The concept of photography as an art form will be introduced, and projects requiring artistic expression wil
be assigned. (Same as Jrn 5) (CSU) (UC credit lited e assigned. (Same as Jrn 5) (CSU) (UC credit limited. See

PH 6 (3)
2 Hrs. Lec. 3 Hrs. Lab
Prerequisite: $\mathrm{Ph} 5 / \mathrm{Jrn} 5$ or permission of the instructor. Psych $1 A$ is recommended. A continuation of Ph $5 / \mathrm{Jr} 5$ with emphasis on lighting, basic poses and studio work. Posing of the subject and
visualization of the finished picture will be stressed with further practice in camera operation and film processing. (CSU) (UC credit limited. See a counselor.)

PH 7 （3）
ADVANCED PHOTOGRAPHY
2 Hrs．Lec． 3 Hrs．Lab．
rerequisie．： P 5 and Ph 6 or equivalent．A continuation of Ph 6 rative photography including magazine covers，fashion and layout．（CSU）
PH 8 （3）
MULTI－MEDIA
${ }^{3}$ 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 previou photographic courses．Emphasis will be given to the following areas：script writing，sound track，exposing of color film，c
techniques．（CSU）（UC credit limited．See a counselor．）

## PHYSICAL EDUCATION

Unless exempt，each student is required by district policy to schedule one activity course each semester．A student may take
A．B．C－D sections of the same course，but not in the same semester．
PE 1 （2） SERVICE
e：The satisfactory completion of basic or recruit train－ Prerequisite：The satisfactory completion of basic or recruit train－
ing and 180 days or more active service in the military of the United ing and 180 days or more active service in the military of the United
States of America．The student wishing credit for military service States of America．The student wishing creait for military service
must present his／her DD214 or equivalent supporting document must present his Assistant ${ }^{\text {and }}$ and register for the credit．If the student registers for the class for military credit and does not submit verification of service，he／she will be dropped as a No－Show and
will not receive credit．PE 1 does not count for units toward VA， will not receive credit．PE 1 does not count for units toward VA，
Financial Aid，or full－time student status．These are not contact Financial Aid，or full－time student status．The
hours．May receive credit only once．（CSU）
PE 3ABCD（1－1－1－1）
PHYSICAL FITNESS，WOMEN
2 His．Lab．
is designed to emphasize physical conditioning and This course is designed to emphasize physical conditioning and
development．Equips the student with a repertoire of exercises development．Equips the student with a repertoire of exercises
and conditioning activities which can be used to maintain physical and conditioning activities which can be used to main）（UC credit ness throughout colles．

## PE 4ABCD（1－1－1－1） BADMINTON，COED

BADMINTO
2 Hrs．Lab．
tiquette，rules，background，and techniques of playing badmin－ on．（CSU）（UC credit limited．See a counselor．）

## PE 5ABCD（1－1－1－1）

## 2 Hrs．Lab．

This course is concerned with teaching the student to success－ fully execute the proper strokes for swimming．Skills，fundamen tals，and safety knowledge are stressed from the beginner to the
internediate swimmer．（CSU）（UC credit limited．See a coun selor．）
PE 6 （2）
$1 / 2$ Hrs．Lec． $11 / 2$ Hrs．Lab．
Prerequisite：PE 5B or approval of the instructor．Techniques of lifesaving and water safety．This course meets requiremen

PE 7 （2） （2FETY INSTRUCTOR TRAINING
1 Hr．Lec． 2 Hrs．Lab．
Prerequisite：Advanced Lifesaving card for W．S．I．A course de signed to acquaint the student with the basic principles of instruct ing beginning，intermediate，and advanced water safety skills．
It will also prepare the student to teach basic rescue and ad vanced lifesaving，CPR，and basic first aid as it applies to wate safety procedures．Successful completion of this course may include certification as an American Red Cross Water Safety
Instructor and as a CPR Instructor．（CSU，UC）
PE 9ABCD（1－1－1－1）
ADAPTED PHYSICAL EXERCISES，COED
Hrs．Lab．
Open only to students who are unable to participate in the regula physical education program．The course is specifically designed o meet the individual needs of these students．（CSU）（UC cred （1）
PE 10ABCD（1－1－1－1）
TEAM SPORTS
2 Hrs．Lab． The course is designed to stimulate he developrate regular par－ ticipation in a variety of sports．Includes coeducational activitie （CSU）（UC credit limited．See a counselor．）
PE 11ABCD（1－1－1－1）
2 Hrs ．Lab．
A course designed to present the basic fundamentals of volleyball such as the serve，setting，spiking，and team play．Rules and class compe．
PE 12ABCD（1－1－1－1）
TENNIS，COED
2 Hrs．Lab．
Tennis offers training in the basic fundamentals of the game including history，rules，and etiquette．Social etiquette of the game is stressed along with the worthy use of leisure time．Tournament
competition in singles and doubles is emphasized．（CSU）（UC credit limited．See a counselor．）
PE 13 （1）
ADVANCED TENNIS，COED
2 Hrs．Lab．${ }^{\text {Prerequisite：PE }} 12 \mathrm{ABCD}$ or approval of the instructor．Review Prerequisite：PE 12ABCD or approval of the instructor．Review
and practice of forehand，backhand，serve and volley，overhead and practice of forehand，onch court strategy and tactics for singles
smash，and lob．Emphasis on and doubles competition．（CSU）（UC credit limited．See a coun－ selor．）
PE 14ABCD（1－1－1－1）
RECREATIONAL GAMES，COED
2 Hrs．Lab．
Designed to offer students a chance to participate in many acti－ vities not otherwise offered in the physical education curriculum． Recreation majors，physical education majors，and those just
interested in setting up community recreation centers will find interested in setting up community recreation centers will find
this course most valuable．Meets physical education activity this course most valuable．Meets physical education activit
requirement．（CSU）（UC credit limited．See a counselor．）
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 college and adult life．（CSU）（UC credit limited． fitness throughout

## PE 18ABCD（1－1－1－1）

GOLF，COED
2 Hrs．Lab．
Offers training in the fundamentals of strokes with irons，woods participation upon a rules and etiquette of the game．Actu participation upon a golf course and the worthy use of leisure
time are emphasized．（CSU）（UC credit limited．See a counselor．）
PE 20ABCD（1－1－1－1）
SOFTBALL，COED
SOFTBALL
2 Hrs．Lab．
This course is designed to emphasize the fundamentals，know ledge of rules，cooching techniques，and basic knowledge of the
PE 21ABCD（2－2－2－2）
Hr．LeceD
Prerequisite：Prior competitive background or permission of the instructor．This course is designed for students with previous experience in the sports of volleyball，softball，and aske course will cover basic fundamentals as well as advanced tea strategies found in competitive situations．A minimum of fifteen hours per semester for each student is required in outside activi－ ties such as community sports and recreational programs．（CSU） C credit limited See a counselor．）

## PE 22ABCD（1－1－1－1）

AND HANDBALL，COED
Instruction and development of the handball skills．Presentation of singles and doubles play，including basic shots and strategy． （CSU）（UC credit limited．See a counselor．）

## PE 23ABCD（1－1－1－1）

2 Hrs．Lab．
Designed for women students interested in basketball．To offer basic and advanced fundamentais，team play，and strategy．（CSU） （UC credit limited．See a counselor．）
PE 24ABCD（1－1－1－1）
2 Hrs．Lab．
An introduction to the fundamental skills and strategy of the game．Rules and class competition are included in the course．
（CSU）（UC credit limited． PE 26ABCD（1－1－1－1）
2 Hrs．Lab．
Participation and instruction in rhythmic fundamentals，factors related to movement，movement fundamentals and dance skills， creative activity，and evaluation．Designed to develop the stu－ dent＇s ability to use expressive body movements in a creative art
form．More complex individual dance sketches and small grou dance studies．（CSU）（UC credit limited．See a counselor．）
PE 28ABCD（2－2－2－2）
DANCE THEATER，COED
3 Hrs．Lab． 1 Hr ．by arrangement
Prerequisite：Permission of the instructor．A performance group presenting all forms of dance and related theatre arts．A minimu of five outside performances required each semester．Meets
physical education activity requirement．（CSU）（UC credit lim ted．See a counselor．）
PE 29ABCD（1－1－1－1）
2 Hrs．Lab
A study of syncopated movement．（CSU）（UC credit limited．Se a counselor．）

## PE 30ABCD（2－2－2－2）

4 Hrs．Lab．
Practice and performance class for songleaders and cheerleader Satisties physical education activity class requirement．（CSU） PE 32ABCD（2－2－2－2）

## BLELE

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

## PE 34AB（2－2）

NTERCOLLEGIATE BASEBALL AND P．E．
Hours to be arranged
Theory and practice of baseball．Limited to students trying out Theory and practice of baseball．Limited to students trying out
for varsity team．The student must schedule for a minimum of 10
hours per week．（CSU）（UC credit limited．See a counselor．） PE 35AB（2－2）

## NTERCOLLEGIATE WRESTLING AND P．E

Hours to be arranged
Theory and practice of wrestling．Limited to students trying out or varsity team．The student must schedule for a minimum of
hours per week．（CSU）（UC credit limited．See a counselor．）

## PE 38AB（2－2）

## IATE TENNIS AND P．E

Eligibility will be determined by Conference rules；howeve ＂redshirts＂will be permitted to take the class and work out wit apply．Team membership will be the top seeded $8 \cdot 10$ players apply．Team membership wil be the top seeded $8-10$ players
Open to both men and women．（CSU）（UC credit limited．See counselor．）
PE 40ABCD（2－2－2－2）
SYNCHRONIZED SWIMMING
4 Hrs．Lab．
Prerequisite：Consent of instructor．Synchronized swimming is the concept of swimming as an art form．The swimmer execute other swimmers．（CSU）（UC credit limited．See a counselor．）
or
PE 41AB（2－2）
PETERCOLLEGIATE VOLLEYBALL AND P．E． Hours to be arranged
Prerequisites：Eligibility will be determined by Conference rules IVC guidelines in the AS Handbook for athletics will also apply
This course is designed to give the individual a well－rounded know ledge in volleyball．The course should help develop a relationship of athletics to other matters such as exercise，recreation，sports manship，and competition．The student must schedule for a mini mum of 10 hours per week．（CSU）（UC credit limited．See counselor．）

## PE 42AB（2－2）

Hours to be arranged
Theory and practice of soccer．Limited to students trying out for varsity team．The student must schedule for a minimum of 10 ours per week．（CSU）（UC credit limited．See a counselor）

## PE 43AB（2－2）

NTERCOLLEGIATE SOFTBALL AND P．E．
Theory and practice of women＇s softball．Limited to student trying out for varsity team．The student must schedule for a min mum of 10 hours per week．（CSU）（UC credit limited．See counselor．）

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See a

PE 44 (1)
Ve tactics
(Same as Adm Jus 23) (CSU)
PE 45ABCD (1-1-1-1)
NDIVIDUAL SPORTS FOR THE PHYSICALLY LIMITED Hrs. Lab.
his course is designed to promote individual skill development
or the physically limited student. (CSU) (UC credit limited. See a counselor.)
PE 46ABCD (1-1-1-1)
GROUP SPORTS FOR THE PHYSICALLY LIMITED GROUP SPORTS FOR THE PHYSICALLY LIMITED ited student's
gness to parawareness of group activities and develop a willingness
ticipate. (CSU) (UC credit limited. See a counselor.)
PE 50 (2)
UCTION TO PHYSICAL EDUCATION
2 Hrs. Lec. pecialization within the field. (CSU) (UC credit limited. See counselor.)

PE 51 (2)
1 Hr. Lec. 2 Hrs. Lab.
Prerequisite: Basic knowledge and/or experience in competitive sports and recreational games. The course is designed to provide students experience in structuring various types of sports and recreation tourna
program. (CSU)

## PE 52AB (2-2)

## 2 Hrs. Lec

A history of the game, knowledge of rules, current and possible future trends in the game, coaching techniques, and scouting Recommended for phys. (CSU) (UC credit linited See a coun and re
PE 53AB (2-2)
Hrs. Le OF BASKETBALL, COED
This course is designed for physical education majors, recreation majors, and potential coaches. Coaching techniques and theories, history, rules, and current and possible future trends in the game
will be offered. (CSU) (UC credit limited. See a counselor.)

## PE 55AB (2-2) <br> PE 55AB (2-2) <br> THEORY OF WOMEN'S TEAM SPORTS, COED

This course is designed for those interested in women's volleybal basketball, and softball as potential coaches. Provides students with knowledge of fundamental concepts, theories and techniques
of coaching, and playing these sports. (CSU) (UC credit limited of coaching, and p
See a counselor.)
PE 56 (2)
CARE AND
CARE AND PREVENTION OF ATHLETIC INJURIES
This course is designed for the coach, coach-trainer, physic education and recreation student. Emphasizes the screening and conditioning of athletes, prevention, care and treatment of ath
letic injuries. Includes techniques of applying supportive materials letic injuries. Includes techniques of applying supportive ematerials, ization of a new athletic training program. (CSU, UC)

PE 58 (2)
PSYCHOLOGY OF COACHING
2 Hrs. Lec. ${ }^{\text {Prerequisites: Sophomore status or permission of the instructor. }}$ A course covering all the aspects of the psychology of coaching may be applied to the coaching of sports, and to bring out the relationship of meaningfful learning to successful athletic coaching. (CSU) (UC credit limited. See a counselor.)
PE 59AB (3-3)
SPORTS OFFICIATING, MEN
2 Hrs. Lec. 3 Hrs. Lab.
Theory and practice in the techniques of officiating in highly organized games and sports such as basketball, football, wrest-
ling, baseball, track, and tennis. Students must plan for an addi ing, aseball, track, and tennis. Students must plan for an addiCSU) (UC credit limited. See a counselor.)
PE 60AB (3-3)
PORTS OFFICIATING, WOMEN
Hrs. Lec. 3 Hrs. Lab
o familiarize prospective physical education majors and minors redit limites of team and individual sports for girls. (CSU) (UC see a counselor.)
PE 61 (3)
Hysical education in the elementar SCHOOL
 This course is designed to prepare the elementary school teacher
to teach the whole child through physical education. (CSU) PE 62AB (3-3)
PE 62AB (3-3) 2 Hrs. Lec. 2 Hrs. Lab. plus 2 Hrs. Lab. to be arranged A course designed to train college students to condition and pre-
pare retarded persons for competition inSpecial Olympics. (CSU) pare retarded persons for competition in Special Olympics. (CSU

## PHYSICAL SCIENCE

PHYS SCI 25 (4)
PHYS SCI 25 (4) Hrs. Lec. 3 Hrs. Lab.
Selected topics in physical science. The relations of physical sci ence to modern life through emphasis on the scientific method Designed for those intending to take only one semester of physica principles of natural science. (CSU) (UC credit limited. See counselor.)

## PHYSICS

PHYS 2A (4)
(CAN PHYS SEQ A) 3 Hrs. Lec. 3 Hrs. Lab
Prerequisite: Credit or concurrent enrollment in Math 15 or per mission of the instructor. Principles of mechanics and heat
Statics, uniform motion, accelerated motion, work and energy Statics, uniform motion, accelerated motion, work and energy,
mpulse and momentum, fundamentals of heat and heat flow, mpulse and momentum, fundamentals of heat and heat fiow,
properties of gases. (CSU) (UC credit limited. See a counselor.)

PHYS 2B (4) GENERAL PHYSICS
Prerequisite: Phys 2A. Simple harmonic motion, sound, dopple effect, acoustical phenomena, electrostatics, current electricit, Ohm's Law, light, spectroscopy, geometric optics, modern
physics. (CSU) (UC credit limited. See a counselor.) PHYS 4A (4)
(CAN PHYS SEQ B)
PHYS 4A (4)
PRINCIPLES OF PHYSICS
3 Hrs. Lec. 4 Hrs. Lab
Prerequisite: Credit for or concurrent enrollment in Math 3A This course is designed to give an understanding in the fund
PHYS 4B (4)
(CAN PHYS SEQ B)
PRINCIPLES OF PHYSICS
3 Hrs. Lec. 4 Hrs. Lab.
Prerequisite: Phys 4A and credit or concurrent enrollment in Math 3B. This course is designed to give an understanding of the funda mental principles of physics in the areas of electricity and magne ism. (CSU
PHYS 4C (4)
(CAN PHYS SEQ B)
3 Hrs. Lec. 4 Hrs. Lab.
Prerequisites: Phys 4 A and credit or concurrent enrollment in Math 3B. This course is designed to give an understanding of the undamental principles of physics in the area of heat, wave motion, ound, light, and modern physics. (CSU)

|  | PHYSIOLOGY |
| :--- | :--- |
| PHYSIO 1 (4) |  |

## PHYSIO 1 (4)

Hrs. Lec. 6 Hrs. Lab.
Prerequisites: One year each of high school chemistry and biology or one semester each at the colliege level or a current California LVN license. The functions of the human body; emphasis on the
circulatory, muscular and nervous system. (CSU) (UC credit circulatory, muscular, and
imited. See a counselor)

## PIPEFITTING

The following course has been developed as a part of a four-year apprenticeship program. Additional courses are in the proces County Pipefitter Joint Apprenticeship Committee, 3901 Cente Street, San Diego, CA. For additional information contact the

## PIPEFG 38 (2)

TIG WELDING
This course is designed to provide the apprentice with a working knowledge of the welding process known as TIG,

PLUMBING
The following courses have been developed as part of a four-year
The following courses have been developed as part of a four-yea apprenticeship program. Additionau courses are in the process of
eeing prepared. Applications should be directed to San Diego

County Plumbing Joint Apprenticeship Committee, 3090 Cente Street, San Diego, CA. For additional information contact th Dean of Vocational Education.
PLUMB 10 (3)

## PIPE TRADES ORGANIZATION

3 Hrs. Lec.
This course will provide an introduction to industry and is de signed to provide the apprentice with a working knowledge of th

## PLUMB 12 (3) <br> RELATED MATHEMATICS FOR PLUMBING

AND HEATIN
3 Hrs. Lec.
This course will provide the basic introduction of health and safet standards for the construction industry and will review the funda mentals of mathematics including instruction in Basic Algebra

PLUMB 16 (2)
BASIC RELATED DRAWING
1 Hi. Lec. 2 Hrs. Lab.
This course will provide the technical and blueprint knowledg to go with work experience to be a confident worker in the con truction trade.

## PLUMB 18 (3)

ASIC SCIENCE AND MECHANICS
Hrs. Lec.
ciences and mesigned to instruct the student in the fundamenta Ciences and mechanics of the Steamfitting-Pipefitting trade. The neumatics; mechanics; safety science of water; hydraulics and corrosion.

## PLUMB 27 (3)

3 Hrs. Lec.
Gas Distribution is presented to the second year apprentice to provide the opportunity to gain information needed to perform as an effective apprentice and journeyman, properly installing
natural and LP gas systems, vents, appliances and control.
PLUMB 31 (3)
ATER DISTRIBUTION
3 Hrs. Lec.
This course provides each apprentice with (1) an understandin of the principles which govern the design of pipe and equipmen used in water treatment and water supply, (2) training in the prac tices and procedures of laying out and installing water supply
systems, (3) an understanding of hot water generating equipment systems, (3) an understanding of hot water generating equipmen
and systems. With this knowledge, the apprentice will be able to perform as an effective journeyman at the completion of their apprenticeship.

POLY SCI 1 (3)
NTRODUCTION TO POUTICAI SCIENCE
3 Hrs. Lec.
An introduction to the theories, principles, and problems of mod An political life and the methods of studying and acquiring political knowledge. Illustrative materials drawn primarily from Hist 17A will meet graduation requirements in American Instiutions. (CSU, UC)
(CAN GOVT 2) Hrs. Lec.
The origin, development and operation of local, state and nationa
 course and either Poly Sci 1 or Hist 17B will meet graduation requirements in American institutions. May be taken befor oly Sci 1. (CSU, UC
POLY SCI 3 (3)
COMPARATIVE POLITICS
3 Hrs. Lec.
Prerequisite: Poly Sci 1 or 2. A comparative study of modern roblems of decision-making in terns of political action and CSU, UC)
POLY SCI 14 (3)
NTRODUCTION TO INTERNATIONAL RELATIONS 3 Hrs. Lec.
An introductory course stressing the techniques of analysis of the asic factors making for conflict and adjustment in contemporary ternational relations. Problems of nationalism and imperialism, lements of national power, causes of war, methods of seeking peace, the rote of international organizations, and the foreign pon contemporary developments. (CSU, UC)

T 4 (12.5) PSYELOPME
6 Hrs. Lec. 19.5 Hrs. Lab
rerequisite: Completion of PT 3, NS2C and Anat 6 or permission the instructor. In this course special consideration is given to cations and etiologies of commen disruptive conditions are tudied. An overview of developmental and social learning models presented to assist the student in acquiring skill in teaching and presented. Intervention is management of behavior problems is ormalization process ind emphasized through the use of the iques. Clinical experiences are included. (CSU)

MENTAL (12.5) DISORDERS FOR THE PSYCH TECH 6 Hrs. Lec. 19.5 Hrs. Lab
rerequisite: Completion of Psych 1A, Psych 35, and PT 4 or per wission of the instructor. In this course the assessment of clients gies of common disorders are studied. Interpersonal relationships are reviewed and intervention in maladaptive behavior is empha
sized. The impact of substance abuse on the individual is studied sized. The impact of substance abuse on the individual is studied
and intervention techniques are presented. A survey of therapy models is included. The role of the psychiatric technician is pre sented. Clinical experiences are included. (CSU)
PSYCHOLOGY

PSYCH 1A (3)
(CAN PSY 4)
NTRODUCTION TO PSYCHOLOG
Hrs. Lec
rerequisite: Twelfth grade reading level ability is recommended or success in this course. An introduction to the fundamenta rinciples and concepts of human behavior. Includes consideration of human development, learning, biological basis of behavior,
maladaptive behavior, mental health, motivation and emotion. maladaptive behavior, mental health, motivation and emotion. (CSU, UC)
PSYCH 1B (3)
EARNING AN
PERCEPTION
Prerequisite: Psych 1A or permission of the instructor. This course will explore the role of learning in the adaption of humans and other animals to their changing environment. Research
methodology, Pavlovian and operant theories, applications and methodology, Pavlovian and operant theories, applications and
mplications, and higher cognitive processes will be examined. implications,

PSYCH 2 (3)
3 Hrs. Lec.
Prerequisite: Psych 1 A preferred. An introduction to the function
of experimental methodology in the investigation of physiological proxperimental methodology in the investigation of physiological ogical mechanisms which provide a basis for perception, learning motivation, and other complex patterns of behavior. (CSU, UC PSYCH 3 (3)
PSYCHOLOG
3 Hrs. Lec.
A study of development of the normal personality, focusing on iews of personality structure and aproaches to personal growth views of personality structure and approache
are discussed. (Same as TA 3) (CSU, UC)

PSYCH 4 (3)
PSYCHOLOGY OF HUMAN SEXUALITY 3 Hrs. Lec.
An objective exploration of the various issues pertaining to human sexual behavior from
sciences. (CSU, UC)
PSYCH 5 (3)
PSYCHOLOGY OF EFECTIVE BEHAVIOR 3 Hrs. Lec.
A survey of some of the relevant psychological facts, principles, day living. An experi in the experience and problems of everyeffective behavioral alternatives in parenting, interpersonal relations, values clarification as well as proven methods of successful study. (CSU
PSYCH 6 (3)
3 Hrs. Le
Prerequisite: Psych 1A or Psych IB is recommended, but not required. A detailed examination of recent research and publicaof behavior, psychological bases and psychological disorders and therapeutic processes. An up-to-date examination of selected topics in the field of psychology. (CSU)

## PSYCH 8 (3)

AND CAREER DEVELOPMENT
3 Rrs. Lec.
(Same as HR 8) (CSU)
PSYCH 8A (1)
PSYCH 8A (1) 1 Hr. Lec.
(Same as HR 8A) (CSU)

PSYCH 8B (1)
PERSONAL AND CAREER DEVELOPMENT 1 Hr . Lec.
(Same as HR 8B) (CSU)
PSYCH 8C (1)
IND CAREER DEVELOPMENT
1 Hr. Lec. ${ }^{(S a m e}$ as HR 8 C ) (CSU)
PSYCH 9 (
PSYCH 9 (3)
3 Hrs. Lec.
(Same as ADS 9/HR 9) (CSU)
PSYCH 10 (3)
SMALL GROUP LEADERSHIP
3 Hrs. Lec.
(Same as HR 10) (CSU)
PSYCH 11AB (3-3)
1 Hr. Lec. 6 Hrs. Lab. field experience per wee
1 Hr. Lec. 6 Hrs. Lab. field experien
(Same as ADS $11 \mathrm{AB} / \mathrm{HR}$ 11AB) (CSU)
PSYCH 13 (3)
3 Hrs. Lec.
(Same as Math 12 and Bus 26) (CSU, UC)
PSYCH 14 (3)
ABNORMAL PSYCHOLOGY
3 Hrs. Lec.
Prerequisites: Psych 1A. Recommended: Psych 2 and Psych 3 havior. Current practices in therapy and prevention are emph sized. The topics of anxiety and fear, psychoneuroses, organic

PSYCH 15 (3)
SOCIAL AND PSYCHOLOGICAL DYNAMIC OF DRUG USE
3 Hrs. Lec.
Prerequisite: Completion of, or concurrent enrollment in, Psych views drug use behavior from a sociological and psychologic perspective. It includes an analysis of factors contributing to drus use; societal influences, subcultural influence, primary grou influences (peer group, and the family), and personal psych
dynamics and development. It encompasses ilegal as well drug use, particularly alcohol. Some emphasis will be as aven potential solutions and preventive methods which could be practical value to parents and various professional and semi-pro PSYCH 16 (3)
THE PSYCHOLOGY OF INTERPERSONAL
3 Hrs. Lec.
An investigation of the dynamics of interpersonal relationships. Starting, developing, understanding, and improving one's rel will include love, jealousy, meeting people, communication Topic self-disclosure, fair fighting techniques, sex roles, personal per ception, and transactional analysis. Lecture-discussion-exper ential. (Same as HR 16) (CSU)

## PSYCH 16A (1)

THE PSYCHOLOGY OF INTERPERSONAL RELATIONSHIPS

## 1 Hr. Lec.

An investigation of the dynamics of interpersonal relationships Starting, developing, understanding, and improving reationship with others will be the focus of this course. Topics will incluce
ove, communication skills, and self-disclosure. Lecture-discu sion-experiential. This course, together with Psych/HR 16 B and
Psych/HR 16 C is equivalent to Psych/HR 16 . Not open to stu Psych/HR 16C is equivalent to Psych/HR 16. Not open to stu
dents who have completed Psych/HR 16. (Same as HR 16A) dents who have completed Psych/HR 16. (Same as HR 16A)
CSU)

PSYCH 16B (1)
THE PSYCHOLOGY OF INTERPERSONAL RELATIONSHIPS
1 Hr . Lec.
An investigation of the dynamics of interpersonal relationships Starting, developing, understanding, and improving relationship learning to fight fair, learning how to be direct in personal com munications, sex roles, and assertive communication with othe people. Lecture-discussion-experiential. This course, togethe
with Psych/HR 16 A and Psych/HR 16 C is equivalent to Psych/HR 16. Not open to students who have completed Psych/HR 16 . (Same as HR 16B) (CSU)

PSYCH 16C (1)
THE PSYCHOLOGY OF INTERPERSONAL RELATIONSHIPS
An investigation of the dynamics of interpersonal relationships Understanding and improving relationships with others will be the focus of this course. Topics will include types of relationships, ext of a relationship. Lecture-discussion-experiential. This course, together with Psych/HR 16 A and Psych/HR 16 B is equiva ent to Psych/HR 16. Not open to students who have completed Psych/HR 16. (Same as HR 16C) (CSU)

PSYCH 17 (3)
3 Hrs. Lec.
A study of the social and psychological aspects of how people
interact and influence each other. The course will cover such interact and influence each other. The course will cover such
topics not included in Psych 1A or Sociol 1 as:methods and of research, influence, attitude changes, persuasion, and propaganda, aggression, cooperation and competition, conformity, prejudice, communication, affiliation, dynamics of group struc-
ture, including leadership and role playing. These topics are cov ture, including leadership and role playing. These topics are cov-
ered at both the theoretical and practical levels. (Same as Sociol ered at both the
17) (CSU, UC)
PSYCH 18 (1)
1 Hr. Lec.
Prerequisite: Psych 1A. An introduction to the scientific method of research used in psychology. The class will work together in conducting a class experiment, analyzing and interpreting the psychological data. (CSU)
PSYCH 19 (3)
THE PSYCHOLOGY OF LOSS
3 Hrs. Lec.
The grief process will be explored as well as how one can help a separation, the aging process, illness, retirement changh, neighborhoods, or by loss of financial security. Why some forms of grief in ourselves and others go unresolved will be explained and discussed. In addition, techniques for giving emotional support and for creating life as a challenge rather than a threat will be
covered. Alternative models of caring for the terminally ill patient will be presented as well as the concept of "conscious living. conscious dying". (CŞU)
PSYCH 20 (3)
DEVELOPMENTAL PSYCHOLOGY OF CHILDREN
3 Hrs. Lec.
(Same as ECE 20) (CSU) (UC credit limited. See a counselor.)
PSYCH 21 (3)
EARLY CHILDHOOD SOCIALIZATION: CHILDREN, FAMILY AND COMMUNITY
3 Hrs. Lec.
(Same as ECE 21) (CSU)
PSYCH 22 (3)
PSYCH 22 (3) AND OBSERVATION
3 Hrs. Lec.
(Same as ECE 22) (CSU)
PSYCH 26 (3)
PRINCIPLES OF PARENTING
3 Hrs. Lec.
(Same as ECE 26) (CSU)
PSYCH 27 (3)
UNDERSTANDING EXCEPTIONAL STUDENTS 2 Hrs. Lec. 2 Hrs. Lab.

PSYCH 30 (3)
PSYCHOLOGY OF ADOLESCENCE
3 Hrs. Lec.
Deals with the practical aspects of the development and growth
of adolescence. Particular attention is given to the inflences of adolescence. Particular attention is given to the influences,
settings, and problem areas of adolescence and youth. (CSU) (UC credit limited. See a counselor.)

PSYCH 30A (1)
PSYCHOLOGY OF ADOLESCENCE
1 Hr Lec.
Section A.: Psychological Development. An introduction to the
processes of personality and relationshin develocment, with processes of personality and relationship development, with
emphasis on peers authority figures, shd the roblem areas of communication difificulties, juvenie delinquency, drus use and abuse, depression, and suicide. This course, together with Psych
303 and Psysh 30 is is 30 B and Psych 30 C , is equivalent to Psych 30 . Not open to stu-
dents who have completed Psych 30 . (CSU) (UC credit limited. dents who have completed Psych 30 . (CSU) (UC credit limited.
See a counselor)

PSYCH 30B (1)
PSYCHOLOGY OF ADOLESCENCE
1 Hr. Lec.
Section B: Cogitive and moral development. An in-depth study
of the intellectual potential of adolescents including creative of the intelectual potential of adolescents, including creative
problem solving, social cosnititon, impression formation, role. probiem solving, social consition, impression formation, roie-
toking, and the interaction between abstrat thinking and moral
devel
 30C, is equivalent to Psych 30 . Not open to students who have
completed Psych 30. (CSU) (UC credit limited. See a counselor.) PSYCH 30C (1)

OF Adolescence
1 Hr. Lec.
${ }_{\text {Section C. Physical Maturation. A description of the development }}$ Section : Pysisal Maturation. A description of the development
of rimary and secondary sexual characteristics, the eope of hor. mones and genetic factors on development, the psychological
implications of early and late development, and factors affecting implications of early and late development, and factors affecting
sexual attitudes and behavior. This course, together with Psych 30 A and Psych 308 , is equivalent to Psych 30 . Not open to students who have completed Psych 30. (CSU) (UC credit limited.
See a counselor.) See a counselor.)

## PSYCH 35 (3) DEVELOPMEN

DEVELOPMENTAL PSYCHOLOGY: CONCEPTION TO DEATH
3 Hes.
Prerequisite: None (Psych 1A recommended.) A study of the Prerequisise. None (Psych 1 A recommended.) A study of the prenatal development, infancy, toddlerhood, preschooiers, mid-
dle childhood adolescence, and adulthood including old age and die childhood, adolescence, and aduithood incluaing old age and
death. The course will cover major theories of development, current research, and problem areas of human development. (CSU) (UC credit limited. See a counselor.)

## PSYCH 40 (3)

PSYCHOLOGY OF CRISIS COUNSELING 3 Hirs. Lec.
Prerequisite: Psych 1A. A course designed to familiarize the student with a basic understanding of the causes, manifestations, and
treatment of emotional illness, especially relevant to crisis situtreatment of
ations. (CSU)

PSYCH 53 (3)
GROUP LEADERSHIP AND GROUP PROCESS 3 Hrs. Lec.
(Same as ADS 53) (CSU)
PSYCH 55 (3)
ITION AND REFERRAL TECHNIQUES (Same as ADS 55) (CSU)

## RECREATION

## REC 70 (3)

INTRODUC
3 Hrs. Lec.
3 Hrs. Lec.
Presents the basic ideas and problems in our contemporary
society and projects this society and projects this thinking into the future when greater
amounts of leisure time will be at our disposal. The course shows the need of our citizenry to cope successfully with the pressures of our daily lives and have a balanced and meaningful use of leisure time in maintaining mental and physical health. (CSU)

## REC 71 (3) SOCIAL REC

3 Hrs. Lec
3 Hrs. Lec.
material, and informatiourse designed to present instruction, recreation in clubs, playgrounds , recreation and camps. Emphasis is on the social development and integration of individuals into group progams, including planning, pro-
gramming, and conducting social recreation activities. (CSU) REC 72 (3)

## REC 72 (3) OUTDOOR RECREATION

2 Hrs. Lec. 3 Hrs. Lab.
History, development, principles, and trends of organized camp. ing, nature and conservation, and outdoor recreation. Laboratory and field trips, including camping and hiking activities. Practical training in camp counseling. Required for recreation majors. (Will not satisfy PE requirement.) (CSU)
REC 73 (4)
RECREATION FOR SPECIAL GROUPS
2 Hrs. Lec. 4 Hrs. Lab.
Field work in therapeutic recreation in the community. The special groups emphasis area is dedicated to understanding and serving tional needs. Students must plan for two additional hours by arrangement. (CSU)
REC 74 (3)

## NTRODUC <br> IION TO COMMUNITY RECREATION

 3 Hrs. Lec.For recreation majors and nonmajors, a general orientation to the
field of recreation ment of the recreation profession, a survey of recreation and eisure services, description and interpretation of recreation as form of community service and the nature and scope and signisociety. Emphasis is on the role of the professional leader in variety of settings. (CSU)
SOCIAL SCIENCE

## SOC SCI 52 (3)

INTRODUCTION TO AMERICAN GOVERNMENT 3 Hrs. Lec.
An introduction to the foundations and major characteristics of the governments of the United States and California, stressing
the political habits of the American people within an historical setting. This course will meet the graduation requirement in American Institutions at Imperial Valley College, but is offered to students who do not intend to transfer to senior institutions.

## SOCIOL 1 (3)

(CAN SOC 2)

## RINCIPLES OF SOCIOLOGY

An introductory course to the field of sociology. A study of the characteristics of social life which emphasizes the processes of social interactions that are encountered in everyday living. A study or social structure, social patterns, and social institutions as they
relate to life in the United States. (CSU, UC)
SOCIOL 2 (3)
CONTEMPORARY SOCIAL PROBIEMS (CAN SOC 4) 3 Hrs. Lec.
This course deals with contemporary social problems and will cover those areas that are currently being defined by our society as problems on the societal level, the group level, and from the stand point of the individual. (CSU, UC)
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 discrimination of different groups within American society. It will
cover an historical analysis of the problems of these groups and typical areas will include racism, sexism, agism, and ethnic and religious discrimination. (Same as ADS 10) (CSU, UC)
SOCIOL 15 (3)
SOCIAL AND PSYCHOLOGICAL DYNAMICS
OF DRUG USE
3 Hrs. Lec.
(Same as ADS 15/Psych 15) (CSU)
SOCIOL 17 (3)
OGY
3 Hrs. Lec.
(Same as Psych 17) (CSU, UC)
SOCIOL 30 (3)
3 Hrs. Lec.
(Same as Adm Jus 30) (CSU)
SOCIOL 33 (3)
MARRIAGE AND THE FAMILY
(CAN H EC 12) 3 Hrs. Lec.
An analysis of factors predictive of successful marital adjustment Attention focused upon such family processes as courtship, mar
riage, reproduction, child rearing, and marital dissolution. (CSU)

## SOCIOL 49 (3)

COMPUTERS AND SOCIETY
A general co
A general course designed to acquaint students with computer privacy, computer impact on employment, and computer technology as an agent of social change. This course does not include hands-on experience in word processing or programming. (CSU)

## OCIOL 50 (3)

HUMAN SERVICES IN A CHANGING SOCIETY
3 Hrs. Lec.
(Same as ADS 50) (CSU)

High school Spanish courses may be used to meet the prerequisites of advanced Spanish courses at IVC only yf they include train ing in all four basic language skills: listening, speaking, reading, and writing. The courses must have included phonetics, practice esting in reading and listening comprehension; writing from dic ation; and word-picture association. These high school courses will not count as college credit toward graduation. Placemert w be made by examination and/or consent of the instructo
tact the IVC Counseling Center for further information.
The last year course taken by a student in the high school language sequence may be repeated in college for graduation credit, not to exceed four units of repeated foreign language work. For ad vanced placement, at least one course in Spanish must have been taken the year prior to entering col
The above requirements may be waived by examination or by con The above requiremen

## SPAN 1 (5)

Y SPANISH
5 Hrs. Lec
Prerequisites: The student must be able to speak and read English. Not open to students with native ability in Spanish. (See Span 20A) For additional oral practice, concurrent enroliment in Spa 5 A is recommended. The beginning Spanish course is based on contrastive analysis between Spanish and English and is designe
to develop in the English-speaking student rudimentary abilities i to develop in the English-speaking student speaking, reading, and writing. The main emphasis is on the present tense of both regula and irregular verbs. The student will be familiarized with those
features of Hispanic culture which reflect the different frame reference from which the native speaker of Spanish views the world. (CSU, UC)
SPAN 1 A (2.5)
LEMENTAKY SPANISH
2.5 Hrs. Lec.

Prerequisite: The student must be able to speak and read English. This course is one-half the content of the regular Span 1 course. Completion of Span 1A and 1B sequence will be the equivalent of
Span 1, and the total of 5 units. (CSU) (UC credit limited. See a counselor.)
SPAN 1B (2.5)
ELEMENTARY SPANISH
2.5 Hrs. Lec.

Prerequisite: Span 1A. The student must be able to speak and read English. For additional orad practice, concurrent enrollment
in $S$ pan 5 F is recommended. This course is one-half the content of the regular Span 1 course. Completion of Span 1 A and 1 B sequence will be he 1 cived See counselor)

## SPAN 2 (5)


Hrs. Lec.
Prerequisites: The student must be able to speak and read English. Therequisites: The student can be successful in in Span2 only after having achieved all of the minimal performance objectives specified for Span 1.
Either a recent course in Span 1 or a recent 2 year high school Either a recent course in Span 1 or a recent 2 year high school succeed in Span 2. For additional oral practice, concurrent enrollment in Span $5 B$ is recommended. A continuation of Span 1 with ment in span the main emphasis on the imperfect, preterit, and present perfec forms for both regular and irregular verbs. (CSU, UC)
${ }_{\text {SLEMEN }}^{\text {SPAN }}$ 2A (2.5)
2.5 Hrs. Lec.

Prerequisite: The student must be able to speak and read English. Prerequisite: The student must be able the spessful in Span 2A only after having achieved all the minimal performance objectives specified for
Span 1A. A recent course in Span 1,1B or a recent 2 year high school Spanish course with good retention should enable the stuscent to succeed in Span 2A. This course is one-half the content of the regular Span 2 course. Completion of the Span 2A and 2B sequence is the equivalent of Span 2 for a total of 5 units. A con
tinuation of Span 1 or $S$ pan 1B. (CSU) (UC credit limited. See a counselor.)

## SPAN 2B (2.5)

LEMENTARY SPANISH
2.5 Hrs. Lec.
Prerequisite: The student must be able to speak and read English.
Fer For additional oral practice, concurrent enrollment in Span 5 B is
recommended. The student can be successful in Span 2 B only after having achieved the minimal performance objectives speci fied for Span 2A. This course is one-half the content of Span 2 Completion of the Span 2A and 2B sequence is the equivalent of
Span 2. This course is a continuation of Span 2A. (CSU) (UC Span 2. This course is a continu
credit limited. See a counselor.)
SPAN 3 (5)
ate spanish
Hres. Lecisite: The student must be able to speak and read English The student can be successful in Span 3 only after having achieved all of the minimal performance objectives specified for both Spa high school Spanish course with good retention should enable the student to succeed in Span 3. A continuation of Span 2 covering the uses of all Spanish tenses with special emphasis on the sub
then junctive and

## SPAN 4 (5)

NTERMEDIATE SPANISH
5 Hrs. Lec
5 Hrs. Lec. Prerequisite: The student must be able to speak and read English
The student can be successful in Span 4 only after having achieve all of the minimal performance objectives specified for Span 1,2 and 3. A recent course in Span 3 or the recent completion of years of high school Spanish with good retention should enable
the student to succeed in Span 4. A continuation of Span 3 bu the student to succeed in span 4. A continuation with greater emphasis on the reading and writing skils. The student will work with all tenses and modes of the Spanish language (CSU) (UC credit limited. See a counselor.)

SPAN 5A (2.5)
AND CULTURE
${ }_{2} .5 \mathrm{Hrs}$. Lec.
A course designed to give the student a basic ability in everyday Spanish. The course will emphasize vocabulary-building, conver-
sational skills, listening and comprehension, and culture. (CSU)

SPAN 5B (2.5)
SPAN 5B (2.5)
AND CULTURE
${ }^{2.5}$ Hrerequisite: Span 5A or by examination. Concurrent enrollment
Prerequisite: Span 5A or by examination. Concurrent enroilment
in Span 2 is recommended. A continuation of Span 5A. (CSU)

## SPAN 7 (3)

SH SOUND SYSTEM
Span 7 emphasizes the sounds of Spanish and of the Spanish phonemic system with special attention to the problems involved in the hearing of Spanish sounds, as well as their articulation. (CSU)
SPAN 10 (3)
IEDIATE CONVERSATIONAL SPANISH
3 Hrs. Lec.
Prerequisites: Span 1 and 2 or by examination. Conversational
skills are develo skils are developed through oral-aural drills, lab work and guided
conversation based on selected readings. Not open to students with bilingual or native ability. Student must plan for an additional hour
SPAN 11 (3) ADVANCED CONVERSATIONAL SPANISH
3 Hrs. Lec.
NVERSATIONAL SPANISH
Prerequisite: Span 3 or 10. Continuation of Span 10. (CSU, UC) SPAN 20A (5)
BILINGUAL SPANISH
5 Hrs. Lec. 1 Hr. Lab
Prerequisites: Spanish speaking fluency, native or near native develop in the student the four basic language skills of listening speaking, reading, and writing with a constant comparison be tween Spanish and English usage. Emphasis will be on the indic tive tenses: present, preterit, imperfect, and future. These skills Spain, Latin America, and the Spanish speaking communities in the United States - Mexican, Cuban, Puerto Rican, and Sephardic. (CSU) (UC credit limited. See a counselor
SPAN 20B (5)
BILINGUAL SPANISH
5 Hrs. Lec. 1 Hr. Lab.
5 Hrs. Lec. 1 Hr. Lab
Prerequisities: Span 20A or four years of high school Spanish. subjunctive forms. (CSU) (UC credit limited. See a counselor.)
SPAN 21 (5)
5 Hrs. Lec. 1 Hr. Lab
Prerequisites: Span 20B or four years of high school Spanish. Designed develop in to the usage of the variguage proficienc regional and colloquial. Emphasis on writing skills, punctuation, and grammar review. (CSU, UC)
SPAN 22 (5)
ADVANCED BILINGUAL SPANISH
5 Hrs. Lec. 1 Hr. Lab.
Prerequisites: Span 21 or four years of high school Spanish. Con tinuation of Span 21 . Emphasis will be placed upon advance vocabulary building, translating, oral and written composition (CSU, UC)
SPAN 23 (3)
ORAL SPANISH
3 Hrs. Lec
rerequisite: Previous study of Spanish grammar, the equivalent of three years of high school Spanish. Native or near native flu learned Spanish as a native larguage. It is intended for students tice in oral structures. This course will include a brief grammar
review and dscuscol cern. Concurrent enroument in pan $20 B$ is recommended not required. (CSU) (UC credit limited. See a counselor.)

## SPAN 24 (3)

TO SPANISH LITERATURE
Prerequisites: Span 22 or 4 years of high school Spanish or equivalent. Introductory survey of representative movements, authors, and works of Spanish literature from the Middle Ages to the
present. Concurrent enrollment in Span 40/Hist 40 is re present. Concurrent enrollment in Span $40 /$ Hist 40 is recom
mended. Course conducted in Spanish. (CSU, UC)

## SPAN 25 (3)

to spanish american

## 3 Hrs. Lec.

Prerequisites: Span 22 or 4 years of high school Spanish or equivalent. Introductory survey of representative movements, authors,
and works of Spanish American literature from the Spanish Disand works of Spanish American literature from the Spanish Dis
covery to the present. Concurrent enrollment inSpan 41 is recom mended. Course conducted in Spanish. (CSU, UC)
SPAN 26 (3)
NTRODUCTION TO TRANSLATION AND
NTERPRETATION
Prerequisite: Near native fluency in Spanish and English. This course is designed to give students an introduction to theory and practice in translating and interpreting. There will be intensive vocabulary building and ear training exercises; extensive and
intensive reading on current events; cross-cultural training and research on career possibilities in these areas. (CSU)

## SPAN 28A (3)

MERICAN IN LITERATURE
3 Hrs. Lec
46A) (CSU, UC)
SPAN 28B (3)
THE MEXICAN AMERICAN IN LITERATURE
(Same as Eng 46B) (CSU, UC)
SPAN 40 (3)
CIILIZATION OF SPAIN AND PORTUGAL
3 Hrs. Lec.
A survey course on the civilization of Spain and Portugal. Topics include: geography, history, art history and appreciation, soci
ology, psychology, music, foods, folklore, religion, current events These will provide a panoramic view of the way of life of the Spanish and Portuguese people and will help the student understand
two cultures that have influenced millo two cultures that have influenced millions of people throughout tury. Course conducted in English. (Same as Hist 40) (CSU, UC)
ter
SPAN 41 (3)
N OF SPANISH AMERICA AND BRAZII An interdisciplinary survey of the history, culture, traditions, and artistic contributions of the indigenous European and African the present. Course conducted in English. (Same as Hist 41) the present.
SPAN 42 (3) 3 Hrs. Lec.
An interdisciplinary survey of the historical role, culture, values, and artistic contributions of the Mexican Americans to the United States. From

SPAN 43 (3)
SPAN 43 (3) 3 Hrs. Lec.
A survey of the history, culture, traditions, and artistic contribu-
tions of the Filipinos. Special emphasis on the tions of the Filipinos. Special emphasis on the economic, social
and historical background from the prehispanic period to the and historical back
present. (CSU, UC)
SPAN 54A (2) FOR CAREERS
2 Hrs. Lec. 1 Hr. Lab.
A course designed to give the beginning student of Spanish a basic vocabulary, conversational skills, istening comprehension and's
basic grammatical generalizations to be used in the student's career field. Possible career subtitles include, but are not limited to, Medical, Business, Law Enforcement, School Personnel. These subtitles will be listed in the schedule of classes. Students
must plan for an additional hour of individual language laboratory by arrangement.
SPAN 54B (2)
FOR CAREERS
2 Hrs. Lec. 1 Hr. Lab.
Prerequisites: Span 54 A or equivalent. Second of two courses offering basic Spanish oriented toward a specific career. The
course features extensive oral drills and role playing in career course features extensive oral drills and role playing in career
situations. Students must plan for an additional hour of individual language laboratory by arrangement.
SPAN 60ABC (1-1-1)
LANGUAGE LABORATORY
2 Hrs. Lab.
Prerequisite: Current enrollment in Spanish. Individualized language laboratory practice with prepared taped materials and texts
in the language laboratory. Practice in listening comprehensis and pronunciation. Supplementary course for beginning, inter mediate, and advanced levels in Spanish.

## SPECIAL STUDIES

SPECIAL STUDIES 51 or 81 (1-3)
VOCATIONAL EDUCA
SPECIAL STUDIES 52 or 82 (1-3)
HUMANITIES
Hours by arrangement
SPECIAL STUDIES 53 or 83 (1-3)
Hours by arrangement
SPECIAL STUDIES 54 or 84 (1-3)
Hours by arrangement
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)
HEALTH, PHYSICAL EDUCATION AND RECREATION

SPECIAL STUDIES 58 or 88 (1-3)
BEHAVIORAL SCIENCE
Hours by arrangemen
SPECIAL STUDIES 51-8
Course content, prerequisites, and unit credit to be determined by the Division and the Office of Instruction in relation to com munity-student interest and available staff. Not offered eve

## SPECIAL STUDIES - NONCREDIT

## SPECIAL STUDIES 58

An individualized course of study in any discipline using material vailable in the Learning Center; nontransferable.

## SPEECH

## SP 1 (3) ${ }^{(3)}$ COMMUNICATION

3 Hrs. Lec.
Training in the fundarmental processes involved in oral communication with emphasis on organizing material, outlining, consredit limited. See a counselor.)

## SP 2AB (3-3)

His. Le
Prerequisite: Sp 1 . A continuation of Sp 1 with particular emphasis on organization and delivery, and study in the areas of parliamen
tary procedure, debate, discussion, and oral reading. (CSU) (UC credit limited. See a counselor.)

## SP 10 (3)

3 Hrs. Lec.
Prerequisite: Sp 1 , taken previously or concurrently. An intro duction to the problems of evidence and inference, with emphasis on the application of logic to rational discussion of social prob ems. (CSU, UC)

## SP 11 (3) <br> NTERPRETATION - READERS THEATRE

3 Hrs. Lec. Discovering and imparting, vocally, intelli
meanings of the printed page. (CSU, UC)

## SP 12ABCD

1 Hr. Lec.
Prerequisites: Eligibility for Eng 1A and permission of the instruc cipation in forensic or competitive speech activities as a membe
of the IVC Speech Team. Student must be prepared to meet the following: 1) be present for at least 15 regular sessions with instructor during the semester (by arrangement with instructor)
2) be prepared to attend at least two forensic meets during the 2) be prepared to
semester. (CSU)

VOICE AND ARTICULATION DEVELOPMENT 3 Hrs. Lec.
Satisfies the
Satisfies the requirement of voice and diction for pathology majors. It is recommended for those planning careers in elemen-
tary education, special bilingual education majors. Enables the shatded education, and pleasant voice and manners. Enables expression. The various problems of voice and diction are presented, including the physiology of
voice production and phonetics. Drills for the in the student's voice are presented. Recommended for bilingual students to improve their articulation and English language usage. (CSU)

## TEACHER AIDE

TEACHER AIDE

## TA 1 (3)

INTRODUCTION TO INSTRUCTIONAL ASSOCIATE 3 Hrs. Lec.
Introductory course for students interested in a career as an
Instructional Assoc goals, directions, probe. Brief overview of philosophies, ideals, Organization of school systems. ligas in public education today. opportunities; credentialing and degree-certificate requirements. Defines terminology, clerical and mechanical skills, role in the
classroom; review duties with students and school personnel. For students planning to become Instructional Associates in elementary school. (CSU)
TA 3 (3)
PSYCHOLOGY OF ADJUSTMENT
3 Hrs. Lec.
(Same as Psych 3) (CSU)
TA 4 (3)
lal-multicultural curriculum AND INS
3 Hrs. Lec
Prerequisite: TA 1 preferred. A history of the development of goals
and philosophy of Bilingual-Multicultural Education. and philosophy of Bilingual-Multicultural Education. A study o various implemented programs and the role of the instructional
aide in a bilingual-multicultural classroom. Also includes the techniques of teaching both Spanish and English as a second language. Includes the development and use of bilingual-multicultural materials in various subject areas and the methods of teaching all subject areas in the bilingual-multicultural classroo

TA 6 (3)
LANGUGE DEVELOPMENT FOR YOUNG CHILDREN 3 Hrs. Lec.
Introduction to basic language art skills of listening, speaking reading, and writing. Experiences in use of children's literature reading methods, and reading games. An emphasis on learning puppetry, drama, and poetry. Students will learn (todevelo ing centers related to language development. (Same as ECE 6)
(CSU)

## TA 8 (3)

MATHEMATICS FOR YOUNG CHILDREN
3 Hrs. Lec.
Prerequisite: TA 1. An understanding of how mathematics and o mathematics through math applied in the real world approach of Montessori materials and math games in teaching math. Under standing of elementary concepts of the real number syster numeration systems, mathematical sets, philosophy of modern mathematics. Emphasis on providing most effective techniqu
for instruction of young children. (Same as ECE 8) (CSU)

## TA 9 (3)

FIELD EXPERIENCE
1 Hr. Lec. 10 Hrs . Lab.
Supervised field work with young children. Provides practical
opportunities to apply knowledge, methods, and skills in a school setting. Seminars cover experiences, discussions in a sch problems, exchange of ideas, techniques and materials. Students may do their student teaching at the school where they are em-
ployed. (CSU)

WATER TREATMENT TECHNOLOGY
WT 1 (4)
WATER TREATMENT PLANT OPERATOR
4 Hrs. Lec.
This course will provide information needed to operate a basic Tresh-water treatment plant as efficiently as possible. Course
ind will consist of water sources and treatment, coagulation and flocculation, sedimentation, filtration, disinfection, corrosion
control, taste and odor control, laboratory procedures, and plant operation and math. (CSU)
WT 2 (4)
AA TREATMENT PLANT OPERATOR II
Prerequisite: WT 1. Study of fresh-water treatment plant safety, iron and manganese control, flouridation, softening, demineralization, handling and disposal of process wastes, instrumentation,
maintenance, administration, drinking water regulations, and treatment plant math. (CSU)

## WT 3 (4) <br> WATER TREATMENT PLANT OPERATOR III

4 Hrs. Lec.
This course will provide the knowledge required to operate small water treatment plants. Subjects included are: water sources and
treatment; wells, small water treatment pants; storage facilities: treatment; wells, small water treatment plants; storage facilities;
distribution system; water quality considerations in destruction system; operation and maintenance of distribution systems; disin ection; cross connections; sampling; water borne disease and ogical testing. (CSU)

## WT 6 (3)

位 LANT OPERATOR I
Hrs. Lec.
This course is designed to give water and waste water treatment This otreatment plant operations. The subjects covered are: calcuation of treatment plant problems; fractions; decimals; percenconversions; and estimation. (CSU)

## WT 9 (4)

## WASTE WATER TREATMENT I

4 Hrs. Lec.
he effectie: WT 6. This course is designed to train operators in the effective operation of waste water treatment plants. Course up operation, daily operation, interpretation of laboratory results, and process control. (CSU)
WT 10 (4)
UASTE WATER TREATMENT II
4 Hrs. Lec
rerequisite: WT 9. Course will consist of waste water mainten rce, plant safety, sampling, laboratory procedures, hydraulics,
ecords, process control - activated sludge, sludge digestion solids handling, and possible approaches to solving operational polids handling, and

## WT 11 (4)

WASTE WATER TREATMENT III
Prerequisite: WT 10. Course consists of odor control measures, operational control alternatives, in-depth study of solids handling and disposal, waste water reclamation, instrumentation, industria waste treatment and monitoring. (CSU)

## WELDING TECHNOLOGY

Enrollment in welding courses requiring a prerequisite is not
Illowed unless the prerequisite welding class is passed with a C" grade or bette
WELD 31 (5)
3 Hrs. Lec. 6 Hrs. Lab
A complete basic study of welding technology. The student practices techniques for skill development in shielded metal arc weld ing, gas tungst

## WELD 31A (2

OXY-ACETYLENE WELDING
1 Hr. Lec. 2 Hrs. Lab.
Theory, practice and application of joining metals by the oxy. acetylene process, includes metal cladding, cutting and bronz Weld 31. Not open to students who have completed Weld 31 . (CSU)
WELD 31B (3)
2 Hrs. Lec. 3 Hrs. Lab
2 Hrs. Lec. $3 \mathrm{Hrs}$. Lab.
A beginning study of arc welding for the technology oriented Atudent. The course, consists of theory, practice and application of arc welding processes. Electrode selection and applications in different joint designs will be covered. This course, togethe who have completed Weld 31. (CSU) WELD 34 (3)
INERT GAS SHIELDED ARC WELDING
2 Hrs. Lec. 3 Hrs. Lab
Theory, practice and application of Tungsten-Inert-Gas processes (CSU)
WELD 36A (5)
ADVANCED WELDING
3 Hrs. Lec. 6 Hrs. Lab.
Prerequisite: Weld 31 or permission of the instructor. A concentrated course in shielded metal arc welding. The student develop his/her welding skill to a professional entry level. Includes a review of oxy-acetylene cutting and safety. (CSU)
WELD 36B (5)
3 Hrs. Lec. 6 Hrs. Lab
Prerequisite: Weld 36 A or permission of the instructor. Emphasis is on skill development for shielded metal acr welding of pipe an heavy structural plate. Gas metal arc welding process is included to further enhance the welder's abilities. Advanced processes
for shielded metal arc welding, gas metal arc welding, and oxy acetylene welding are presented in all phases of the class. (CSU)
WELD 36C (5)
ADVANCED WELDING - WELDER CERTIFICATION AND BLUEPRINT READING 3 Hrs. Lec. 6 Hrs. Lab
Prerequisite: Completion of Weld 36 B or permission of the in structor. Emphasis is on welding operator qualification testing.
cmpleting the final phase of the Welding Technology Program.
A detailed study of bueprint reading is included to further develo he welder's abilities. (CSU)
NELD 38 (2)
1 Hr. Lec. 2 Hrs. Lab.
Theory and practice in the fundamentals of planning, layout,
pattern development and fabrication of flat sheet metal intouseful pattern development and fabrication of flat sheet metal into usefu products. (CSU)
WELD 50 (1-3)
-3 Hrs. Lec
Same as Aget 50, Auto Tech 50, Math 50 and PL 50)
WELD 75 (3)
3 Hrs. Lec.
(Same as Auto Tech 75/Aget 75)
COOPERATIVE WORK EXPERIENCE

Cooperative Work Experience Education is a cooperative educa ional program by Imperial Valley Community College and th community employers. It is an approved program of activities and the organization, the class facilities and the personnel to coordinate the program. The employers provide places to work (work stations) and on-the-job training which has educational value for the students. Sixteen units of work experience education may be dents are required to be entered in a certificate or degree . All stu General work experience courses are not approved for veteran's enefits.
WE GEN 70 (3)
Hr. Lec. 10 Hrs. Le
Emphasis is placed on the capacity and efficiency of accomplish ing designated tasks, securing an appropriate position and in creasing efficiency with work progress. Laboratory work will be arranged with the employer. The work may be in any occupatio WE GEN 71 (3)
NE GEN 71 (3)
1 Hr. Lec. 10 Hrs. Lab.
Motivation is studied from the employee's and employer's per spective. Personal leadership development and improvement is
emphasized. Laboratory work will be arranged with the employer The work may be in any occupation but must have educationa value for the student. (CSU)
WE GEN 72 (3)
ABOR AND THE ECONOMY
Hr. Lec. 10 Hrs. Lab.
Labor and management relationships are discussed. The effect government on labor and the economy is emphasized. Em ployee procurement, collective bargaining and the labor move ment is part of the instruction. Laboratory work will be arranged with the employer. The work may be in any occupation but mus WE GEN 73 (3)
LAWS AFFECTING EMPLOYEES
Hr. Lec. 10 Hrs. Lab.
Labor laws that affect the welfare and security of employees are man's compensation, social security, and taxes insurance, work discussed. Laboratory work will be arranged with the employer The work may be in any occupation but must have educational
value for the student. (CSU)

WE OCC 80 (4)
Hr
1 Hr . Lec. $15 \mathrm{Hrs}$. Lab.
ing designated tasks, securincity and efficiency of accomplish ing designated tasks, securing an appropriate position and in
creasing efficiency with work progress. Laboratory work will be arranged with the employer. The work must be in the field of the tudent's planned course of occupational training. (CSU)

## WE OCC 81 (4)

1 Hr . Lec. $15 \mathrm{Hrs}$. Lab.
Motivation is studied from the employee's and employer's per spective. Personal leadership development and improverement is The work must be in the field of the student's planned course occupational training. (CSU)

## WE OCC 82 (4) <br> ABOR AND THE ECONOMY

Hr. Lec. 15 Hrs. Lab.
Labor and management relationships are discussed. The effect of procurement, collective bargaining, and the lasized. Employee part of the instruction. Laboratory work will be arranged with the mployer. The work must be in the field of the student's planned course of occupational training. (CSU)

MAJORS
Generally, 18 units of specified course work will satisfy the more than 18 units. Please note the specified number of required units at the beginning of each major description.
The following definitions apply to the major descriptions shown

1. Required courses are the specific courses which must b
taken to fulfill the requirements in an area of study.
2. Acceptable courses are those from which the student may
select in order to meet the total units requirement total number to meet the total units requirement. The number of units selected by the student from thearst, lus the course list, must equal at least the total unit count required

Courses recommended as electives are beyond the major' equirement. These courses are suggested only, and sele ion from this list depends upon the student's individua his/her own program.
Students may satisfy the major requirements in the followin

## ADMINISTRATION OF JUSTICE

Twenty-one units required for the major
Adm Jus 21 Introduction to the Administration



WE OCC 83 (4)
AWS AFFECTING EM
Labor laws that affect the welfare and security of employees are emphasized. Industrial welfare, unemployment insurance, work discussed. Laboratory work will be arranged with among laws The work must be in the field of the student's planned course occupational training. (CSU)

ZOOLOGY

## \section*{ZOOL 1A (4)} <br> GENERAL ZOOLOGY

2 Hrs. Lec. 6 Hrs. Lab.
Prerequisite: Any year course in a high school laboratory science or the equivalent. Introduction to basic principles of animal biology
with reference to structure, functions, classifiction and the environment of animals in general and of invertebrates in particular. (CSU, UC)
ZOOL 1B (4)
GENERAL ZOOLOGY
2 Hrs. Lec. 6 Hrs. La
upon comparative anatomy inuation of Zool 1A with emphasis upon comparative anatomy and physiology, development of verte
brate forms and their interrelationships. (CSU, UCC)
II. Acceptable courses for the major ( 6 units from the following courses)
$\begin{array}{ll}\text { Adm Jus } 22 & \text { Police Patrol Procedures........... (3) } \\ \text { Adm Jus } 24 & \text { Trafic Control and Vehicle Code }\end{array}$ $\begin{array}{ll}\text { Adm Jus } 24 & \text { Traffic Control and Vehicle Code ... } \\ \text { Adm Jus } 26 & \text { Traffic Accident Investigation ....... }\end{array}$ Adm Jus 29 Preliminary Investigation and

 Adm Jus 31 Adm Jus 34 | Adm Jus 37 |
| :--- |

$\qquad$ Criminal Investigation. . Juvenile Control

III. Recommended ase (3) Adm 23 (dono Adm Jus 40 Defensive Tactics ................... (1) Adm Jus 42 Nonlethal Chemical Agents........ (1/2-6) Adm Jus 43 Reserve Officers Class Level il......... (5) (5) $\begin{array}{ll}\text { Adm Jus } 44 & \left.\begin{array}{l}\text { Reserve Officers Class LLevel I } 1 \ldots \ldots . . \\ \text { Adm Jus } 48 \\ \text { Advanced Criminal Law.............. (3) }\end{array}\right)\end{array}$

## AGRICULTURAL BUSINESS

The Agricultural Business Management major is the application of usiness concepts to the agricultural industry and emphasize raining in management for careers in agriculture. These careers the management of firms that supply the service to farms and by those engaged in processing, marketing, distribution, and sales
of farm products.
Twenty-four units required for the major
I. Required courses for the major
$\begin{array}{ll}\mathrm{Ag} 22 & \text { Introduction to Agricultural Economics (3) } \\ \text { Ag } 25 & \text { Agricultural Business }\end{array}$
Agricultural Business Management ... (3) Agricultural Business Organization
and Management.

| Ag 27 | Agricultural Sales and Service Management $\qquad$ |
| :---: | :---: |
| Ag 29 | Computer Applications in Agriculture |
| Econ 1 | Principles of Economics ............. (3) |
| Acceptable courses for the major (select a minimum of 6 units) |  |
| 15 | Pesticide Safet |
| Ag 20 | Animal Science .................... (3) |
| Ag 30 | Food and Fiber in a Changing World . (3) |
| Ag 40 | Soils............................ (3) |
| Bus 1A | Principles of Accounting ............ (4) |
| Bus 1B | Principles of Accounting ............ (4) |
| Bus 5A | Business Law . . . . . . . . . . . . . . . . . (3) |
| Chem 2A | Introduction to Ch |

## AGRICULTURAL ENGINEERING TECHNOLOGY

Provides the student with technical knowledge of mechanization One of the hundreds of agriculture support services in the Imperia

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

| Aget 28 | Power Equipment Operation and Maintenance |
| :---: | :---: |
| Aget 34 | Power Transmission Systems |
| Aget 35 | Fluid Power |
| Aget 37 | Smaill Gasoline Engines |
| Aget 39 | Fundamentals of Diesel Power |

II. Acceptable coutses for the major ( 3 units from the following courses)
$\begin{array}{ll}\mathrm{Ag} 25 & \text { Agricultural Business Management } \ldots \text { (3) } \\ \mathrm{Ag}_{\mathrm{g}} 32 & \text { Irrigation and Drainage } \ldots \ldots . . .{ }^{(3)} \\ \text { Aget } 50 & \text { Applied Math (if required) } \ldots \ldots . . .(1-3)\end{array}$
Aget 50
Auto Tech 60
Weld 31 and Related Electrical Systems..... (5)

## AGRICULTURAL SCIENCE/TRANSFER

The Agricultural Science major deals with the application of the various principles of the biological and physical sciences to agri so that students can prepare for transfer or one of the hundreds of opportunities in the Animal Sciences or Soil Sciences.
Twenty-six units required for the major
I. Required courses for the major

| Ag 20 | Animal Science ................... (3) |
| :---: | :---: |
| Ag 29 | Computer Applications in Agriculture $\qquad$ (3) |
| *Ag 40 | Soils............................. (3) |
| Ag 42 | Introduction to Crop Science . . . . . . . (4) |
| Aget 28 | Power Equipment Operation and |

il. Acceptable courses for the major (select a minimum of units)

 Chem 2A Introduction to Chemistry............ (4)
Ag 21 Feeds and Feeding, Prerequisite: Ag 20; choose this class ${ }^{*}$ Ag 21 Feeds and Feeding, Prerequisite: Ag 20; cho ${ }^{*}$ Ag 40 Soils, Prerequisite: Math X (Beginning Algebra) and Chem ${ }^{2}$ A (Introduction to Chemistry)
Ag 41 Fertizers, Prerequisite: Ag 40
а
wenty-seven units required for the majo
I. Required courses for the major

| ADS 9/ |  |
| :--- | :---: |
| Psych 9/HR 9 |  | Introduction to Counseling.............(3)

Minimum of 6 units from any two of the following courses
ADS $53 /$
Psych $53 \quad$ Group Leadership \& Group Process . (3)
ADS 54
Family Counseling Approach to Alcohol and Drug Abuse ......... (3)
ADS 55/
Psych 55 Crisis Intervention and Referral
ADS 56 Program Management Techniques.... (3) (3)
Minimum of 3 units from any of the following
ADS 10/
Sociol 10
ADS 57ABCD
Sociology of Minority Groups . ....... (3)
Current Issues in Substance crrent Issues in Substance
Abuse $. . . . . . . . . . . . . . . . .-3, ~(1-3, ~ 1-3, ~ 1-3) ~$
II. Recommended Courses (do not fulfill major requirements
$\begin{array}{ll}\text { Psych } 3 & \begin{array}{l}\text { Psychology of Adjustment } \ldots \ldots . . . \\ \text { Psych } 4\end{array} \\ \text { Psychology of Human Sexuality ...... (3) }\end{array}$
$\begin{array}{ll}\text { Psych } 4 & \text { Psychology of Human Sexuality } \ldots \ldots \text {...... (3) } \\ \text { Psych 16/ }\end{array}$
Psych 16/ The Psychology of Interpersonal
Relationships .................
Developmental Psychology: Conception
to Death ..................... (3)
Sociol 33 Marriage and the Family .......... (3)

## ANTHROPOLOG

## wenty-seven units required for the major

I. Required courses for the major

II. Acceptable courses for the major (minimum of 9 units required from the following courses)

| thro 3C | A |
| :---: | :---: |
| nthro 3D | Advanced Arch. Excavatio |
| Anthro 6 | Indians of North America |
| Anthro 8 |  |

$\begin{array}{ll}\text { Anthro } 6 & \text { Indians of North America } \ldots \ldots \ldots \ldots \text { (3) } \\ \text { Anthro } 8 & \text { Indians of the Southwest } \ldots \ldots \ldots \text { (3) }\end{array}$
Anthro 16AB Prehistoric Ceramics ..................(3-3)

## ART

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

| Art 22A | Design . . . . . . . . . . . . . . . . . . . . . . . (3) |
| :---: | :---: |
| Art 22B | Design . . . . . . . . . . . . . . . . . . . . . . (3) |
| *Art 20A | Drawing .......................... (3) |

(Minimum of 6 units from the following courses)
$\begin{array}{ll}\text { Art 3A } & \text { History \& Appreciation of Art } \ldots \ldots . . \text { (3) } \\ \begin{array}{ll}\text { Art 3B } & \text { History \& Apreciation of Art } \\ \text { Art 4 } & \text { History \& Appreciation of }\end{array}\end{array}$
Modern Aprteciation of $\ldots \ldots . . . . .$. (3)
II. Acceptable courses for the major ( 9 units from the followin reas). These are suggested "clusters" of courses. Studen may also take courses from any of the suggested groups. Painting

| Art 18A | Watercolor Painting |  |
| :---: | :---: | :---: |
| Art 18B | Watercolor Painting |  |
| Art 20B | Drawing | (3) |
| Art 21A | Painting | (3) |
| Art 21B | Painting | (3) |
| Art 25A | Life Drawing. | (3) |
| Art 25B | Life Drawing. |  |
| Ceramics |  |  |
| Art 23A | Ceramics | (3) |
| Art 23B | Ceramics |  |
| Art 23 C | Ceramics | (3) |
| Art 24AB | Ceramic Sculpture |  |
| Art 28 | Technical Ceramics |  |

Should be taken first semester, if possible, to allow for sequenc
f Art 20B, Art 21 AB , and Art 25 AB .
AUTOMOTIVE BODY REPAIR AND PAINTING
Twenty-six to 28 units required for the major

1. Required courses for the major

Auto Body $70 \begin{aligned} & \text { Auto Body Repairing \& Painting ..... (5) } \\ & \text { Auto Body } 71 \\ & \text { Advanced Auto Body Repairing }\end{aligned}$
and Paiting Boll Repairing
Auto Body 72 Auto and Light Truck Major Auto Tech 50 Collision Repairing (i...........
Auto Tech 53
Weld 31 OR
Weld 31A \&

$$
\begin{aligned}
& \text { Apporea viamer } \\
& \text { Brakes and Su: } \\
& \text { Basic Weldin }
\end{aligned}
$$



$$
\begin{aligned}
& \text { Basic Welding } \\
& \text { Oxy-Acetylen } \\
& \text { Arc Welding }
\end{aligned}
$$

II. Acceptable courses for the major (five units from the follow ing list may be accepted as major credit if the equivalent of of high school aus body) (two year of high school auto body).
$\begin{array}{ll}\text { Auto Tech 51 } & \text { Engine Technology, or equivalent .... (5) } \\ \text { Auto Tech } 54 & \text { Carburetors, Fuel Injection and }\end{array}$


## AUTOMOTIVE TECHNOLOGY

Thirty-two units required for the majo
I. Required courses for the major
Auto Tech 51 Engine Technolo
Auto Tech 52 Manual Transmissions and Power $\begin{gathered}\text { Trains }\end{gathered}$
$\begin{array}{ll}\text { Auto Tech } 53 & \text { Brakes and Suspension } \ldots \ldots \ldots \ldots \ldots \text { (5) } \\ \text { Auto Tech } 54 & \text { Carburetors, Fuel Injection and }\end{array}$
Auto Tech $54 \begin{gathered}\text { Carburetors, Fuel Injection and } \\ \text { Exhaust Systems................. (3) }\end{gathered}$
Auto Tech 56 Diagnostics....
$\begin{array}{ll}\text { Auto Tech } 58 & \text { Automotive Air-Conditioning } \ldots \ldots . . \\ \text { Auto Tech } 60 & \text { Electrical Starting Charing ignition }\end{array}$
Auto Tech 60 Electrical, Starting, Charging, Ignition and Related Electrical Systems.... (5)
Auto Tech 61A Automatic Transmissions
II. Recommended courses for the major (not required for the
major) Auto Tech 55 Advanced Gasoline Engines and Light Auto Tech 57 Fluid Dower Engine Rebuilding .............................. Auto Tech 59 Auto Tech 65 Auto Tech 66
Auto Tech 75 Auto Tech
Weld 31

$$
\begin{aligned}
& \text { Fluid Power ................... } \\
& \text { Small Gasoline Engines } \\
& \text { Basic Machine Shop Technology } \\
& \text { Adv. Machine Shop Technology } \\
& \text { Basic Shop Skills..................... } \\
& \text { Rasic Wolding }
\end{aligned}
$$

## BANKING-ADMINISTRATIVE SERVICES

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

| Bus 1A | Principles of Accounting |
| :---: | :---: |
| Bus 1B | Principles of Accounting |
| Bus 6 | Management Concepts of Supervision. |
| Bus 7 | Human Relations in Manageme |
| Bus 60 | Principles of Bank Operations ....... (3) |
| Acceptable courses for the major (select a minimum of units) |  |
| Bus 5A | Bus |
| Bus 42 | Business Communi |
| Econ 1 | Principles of Economic |
|  | Oral Comm |

## BANKING-CREDIT ADMINISTRATION

wenty-three units required for the majo
I. Required courses for the major

| Bus 1A | Principles of Accounting ........... (4) |
| :---: | :---: |
| Bus 1B | Principles of Accounting ............ (4) |
| Bus 60 | Principles of Bank Operations ....... (3) |
| Bus 61 | Analysis of Financial Statements ..... (3) |
| Bus 62 | Installment Credit . . . . . . . . . . . . . . (3) |

II. Acceptable courses for the major (select a minimum of 6 Acce
units)

## Bus 5A Business Law Bus 7

Business Law ...............
Human Relations in Manageme
Business Communications.....
Financing Business Enterprises
Agricultural Finance
Principles of Econom


| Bus 42 |
| :--- |
| Bus 63 |
| Bus 64 |

Econ 1
Oral Communication .................

Twenty to 30 units required for the majo
I. Required courses for the maio

## Bus 5A Bus 21ABC

Bus 32AB Bus 40 OR Bus 41 OR
Bus 42
Bus 60
II. Acceptable courses for the major ( 6 units from the following

*Minimum skill level of 60 net words per minute required to qualify for major. If skill level attained in Bus 21A, student excused from Bus 21 B and Bus 21 C
**Minimum skill level of 90 words per minute required to qualify

## **BANKING-GENERAL OPERATIONS

Twenty-three to 30 units required for the major
I. Required courses for the major
Bus 5A
Bus 10A
Bus 21ABC
Bus 23
Bus 40

II. Acceptable courses for the major (select any two courses) $\begin{array}{ll}\mathrm{Sp} 1 & \text { Oral Communication } \ldots \ldots \ldots \ldots \ldots \text { (3) } \\ \text { Bus } 7 & \text { Human Relations in Management } \ldots \ldots \text { (3) } \\ \text { Bus } 39 & \text { Office Procedures ................. (3) }\end{array}$ Bus 39
Bus 41
Bus 50
Cssentials of Business
Intro. to Informatence....

$\ldots$ (3)
*Minimum skill level 40 words per minute required to qualify for major. If skill level attained in Bus 21 A , student is excused from Bus 21B and Bus 21C.
**Bus 1 A will be substituted if student has completed one year
of high school bookkeeping of high school bookkeeping.
$* * *$ Designed for bank tellers, file clerks, bookkeepers, etc. Not
intended for secretarial staff members.

## BEHAVIORAL SCIENCE

The requirement for a major in Behavioral Science may be satisfied by taking 18 units from the following list, concentrating in the ollowing three groups of primary interest
. Required courses for the major
Anthropology
Anthro 1
Anthro 2
Physical Anthropology
Cultural Anthropology

ransfer students planning to major in these areas should take catalog of the school to which they anticipate transferring.

BILINGUAL-BICULTURAL STUDIES
Twenty-four to 27 units required for the major
I. Required courses for the major

Eng 46A-46B/
$\begin{array}{ll}\text { Eng 40 28A-28B } & \text { The Mexican American in Literature. (3-3) } \\ \text { Span 42 } & \text { Intro. to Mexican American Studies. (3) }\end{array}$ Required for bilingual students only
$\begin{array}{ll}\text { Span 20A } & \text { Bilingual Spanish } \ldots \ldots \ldots \ldots \ldots \ldots \ldots \text { (5) } \\ \text { Span 20B } & \text { Bilingual Spanish } \ldots \ldots \ldots \ldots \ldots \ldots \text { (5) } \\ \text { Span 21 } & \text { Intermediate Bilinguil Spanish } \ldots \ldots \ldots \text { (5) } \\ \text { Span 23 } & \text { Bilingual Oral Spanish } \ldots \ldots \ldots \ldots \ldots \text { (3) }\end{array}$
Required for monolingual students only
$\begin{array}{ll}\text { Span } 1 & \text { Elementary Spanish } \ldots \ldots \ldots \ldots \ldots \text { (5) } \\ \text { Span } 2 & \text { Elementary Spanish } \ldots \ldots \ldots \ldots \ldots \text { (5) } \\ \text { Span } 3 & \text { (5) }\end{array}$

## BOOKKEEPING

Twenty-four units required for the major

1. Required courses for the major

| Bus 10A | Practical Bookkee |
| :---: | :---: |
| Bus 10B | Practical Bookkeeping .............. (3) |
| Bus 21ABC | Proficiency-Exit Typewriting ....... (3-3-3) (40 wpm skill level required) |
| Bus 23 | Office Machines................... (3) |
| Bus 24 | Records Management. .............. (3) |
| Bus 50 | Intro. to Information Systems ......... (3) |
| Bus 58 | Microcomputer Operations: Bookkeeping \& Accountin |

II. Acceptable courses for the major (select a minimum of 3 units)
$\begin{array}{ll}\text { Ag } 25 & \text { Agricultural Business Management } \ldots \text { (3) } \\ \text { Ag } 26 & \text { Agricultural Business Organization }\end{array}$
Bus 2 Agrd Management................
$\begin{array}{ll}\text { Bus } 2 & \text { Introduction to Business } \\ \text { Bus } 3 & \text { Business Man }\end{array}$
Bus 3
Bus 4
Bus 13


Bus 39

iII. Recommended electives (do not fulfill requirements for the Recommended electives (do not fulfil requirements for the
major). These courses will assist students in gaining addi
tional experience for the major.


Twenty units required for the majo

1. Required courses for the majo

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

II. Acceptable courses for the major (select a minimum of 3
units)


## CARPENTRY

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

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

## CINEMATOGRAPHY

## Motion Picture Production Option

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

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

| Art 22A OR | Design |
| :---: | :---: |
| Art 22B | Design ........................ (3) |
| Hum 25 | The Humanities . .................... (3) |
| Jrn 3 | Mass Communications .............. (3) |
| Mus 30 | Intro. to Music Literature \& Listening (3) |
| Ph 8 | Multi-Media ...................... (3) |
| Eng 53AB | Creative Writing . $\ldots \ldots \ldots \ldots \ldots \ldots$ (3-3) |
| Jrn 1 | Introduction to Journalism .......... (3) |

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

| Jrn 3 | Mass Communications |
| :---: | :---: |
| $\mathrm{Ph} / \mathrm{Jrn} 5$ | Introduction to Photography . . . . . . . . (3) |
| Ph 6 | Intermediate Photography ........... (3) |
| Ph 7 | Advanced Photography ............. (3) |
| MPP 10/ | Introduction to Motion Picture - |
| Eng 56 OR | Production |
| Eng/Hum/ | Introduction to Film Histor |
| MPP 54 | and Criticism 」... (3) |

II. Six units from the following courses. Three units must be in Art 22A OR D Design
Art 22B
$\left.\begin{array}{ll}\text { Art 22A OR } & \text { Design } \\ \text { Art 22B } & \begin{array}{l}\text { Design } \\ \text { Art 3A OR }\end{array} \\ \text { History \& Appreciation of Art } \\ \text { Art 3B } \\ \text { History \& Apreciation of Art }\end{array}\right] \ldots$ (3)

COSMETOLOGY
orty-five units required for the majo


## DATA PROCESSING

Twenty units required for the majo
Required courses for the majo

II. Acceptable courses for the major
$\begin{array}{ll}\text { Bus } 53 & \text { Programming in Cobol II } \ldots \ldots \ldots \ldots \text { (3) } \\ \text { Bus 54 } & \text { Data Processing Systems. } \ldots \ldots \ldots \text { (3) } \\ \text { Bus } 58 & \text { Microcomputer Operations: }\end{array}$
III. Recommended electives (do not fulfill requirements for the major). These courses will assist students in gaining addi WE Gen 70/


WE Occ 82 Labor and the Economy ......... (3) (4)

## EARLY CHILDHOOD EDUCATION

wenty-seven units required for the major
I. Required courses for the majo

ECE/Psych 20 Developmental Psychology of
ECE/Psych 21 Early Childhood Socialization: Children, (3) ECE/Psych $22 \begin{gathered}\text { Family and Community } \ldots \text { Advanced Developmental Psychology }\end{gathered}$
and Observation ...........
ECE 23
EEE 24
ECE 25 and Cbservation ...........
Early Childhood Curiculum i. Field Experience.

ECE 28
Administration and Supervision in
ECE 34 OR
Thilhood Education
Early Childhood Cesign for the
ECE/CDA $46 \begin{gathered}\text { Meeting the Special Language and } \\ \text { Cultural Needs of Children }\end{gathered}$
II. Additional courses from the following list are recommended:

ECE 36 Intro. to Child Development Associate $\begin{gathered}\text { and Initial Assessment............ (1) }\end{gathered}$
ECE 49 Child Development Associate
 Pssch 1B
Psych/TA 3
Psych 16

$$
\begin{aligned}
& \text { Learning and Perception . } \\
& \text { Psychology of Adjustment }
\end{aligned}
$$ Psych 16

Psychology of Adjustment ........
The Psychology of Interpersonal Psych 17 Reciationships
Social Psychol
 ECE 27/PL 1 Students
Students ............. $\begin{array}{ll}\text { TA/ECE } 6 & \text { Language Devel. for Young Children. . (3) } \\ \text { TA/ECE } 8 & \text { Mathematics for Young Children.... (3) }\end{array}$
Early Childhood Education majors are eligible for a Children's Center Permit as described in the degree program which includes 27 units in ECE, 16 units in General Education and completion of graduation requirements for the associate degree. Application for
the Children's Center Permit can be made through the credential ing office at Imperial County Office of Education through California Teacher Preparation and Licensing, State Department of Education

## ENGINEERING

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

| Chem 1A | General |
| :---: | :---: |
| Math 3A | Analytic Geometry and C |
| Math 3B | Analytic Geometry and Calculus |
| Math 4 | Calculus \& Differential Equations |
| Phys 4A | Principles of Physics. |
| Phys 4B | Principles of Physics |
| Phys 4C | Principles of Physi |

II. *Acceptable courses for the maior (select a minimum of 12 units

| Chem 1B | General Inorganic Chemistry ........ (5) |
| :---: | :---: |
| Chem 5 | Quantitative Analysis ............... (4) |
| Chem 12 | Organic Chemistry . . . . . . . . . . . . . . (5) |
| Engr 2A | Engineering Drawing . . . . . . . . . . . . (3) |
| Engr 5 | Strength of Materials ............... (3) |
| Engr 6 | Engineering Materials ............... (3) |
| Engr 11 | Electric Circuits . . . . . . . . . . . . . . . (3) |
| Engr 15 | Statics .......................... (3) |
| Engr 16 | Dynamics ........................ (3) |
| **Engr 19 | Statics and Dynamics ............... (6) |
| Math 12 | Elementary Statistics ............... (3) |
| Math 47 | Programming in Fortran ............ (3) |
| Math 58 | Computer Programming in Pascal | *Prior to enroilment in any of these courses, engineering students

should consult the catalog of the institution to which they plan to ransfer and determine which courses on this list are applicable to their particular major. They sho
**Engr 19 is equivalent to Engr 15 and Engr 16

It is essential that engineering students enroll in mathematic during the first semester
Students majoring in engineering and planning to attend only two years at IVC are advised to give priority to lower division require ments for the major as they are prerequisites for most upper divi
sion engineering courses. If the student also wishes to complete his/her general education requirements, it will necessitate at least ne additional year at IVC
Some of the courses in categories I and II will be offered only once very two years. See a counselor for specifics on course offerings $r$ any questions regarding the engineering program.

## ENGLISH

Eighteen units required for the major
I. Required courses for the major ( 12 units)
$\left.\begin{array}{ll}\text { Eng 1A } & \text { Reading and Composition } \ldots \ldots \ldots \ldots \text { (3) } \\ \text { Eng 1B } & \begin{array}{l}\text { Introduction to Literature } \ldots \ldots \ldots \text { (3) } \\ \text { Eng 42A-42B } \\ \text { OR } \\ \text { On } \\ \text { Sng 43-43B }\end{array} \\ \text { Survey of World Literature } \\ \text { Survey of English Literature }\end{array}\right] \ldots$ (3-3)

Eng 43A-43B Survey of English Literature
.(3-3)
II. Acceptable courses for the major ( 6 units from the following courses)

| Eng 52 | Introduction to Linguistics . . . . . . . . (3) |
| :---: | :---: |
| Eng/Hum/ | Introduction to Film History |
| MPP 54 | and Criticism .................. (3) |
| Eng 50 | Advanced Composition .............. (3) |
| Eng 53AB | Creative Writing ................. (3-3) |
| Eng 41 | Survey of American Literature ....... (3) |
| Eng 45AD | Studies in Literature . . . . . . . . . . (3-3-3-3) |
| Eng 46A | The Mexican American in Literature.. (3) |
| Eng 46B | The Mexican American in Literature.. (3) |

## FIRE SCIENCE

Required courses for the majo
Fire Sci 60 Introduction to Fire Technology ...... (3)
Fire Sci $61 \quad$ Fundamentals of Fire Prev
Fire Sci $62 \quad$ Fire Protection Ei
Fire Sci 63 and Systems.......................(3)

| Fire Sci 64 | $\begin{array}{l}\text { Fundamentals of Fire Protection ...... (3) (3) } \\ \text { Fire Sci } 65 \\ \text { Fundamenta }\end{array}$ |
| :--- | :--- |

Math $51 \quad$ and Emergency Action.............(3)

## FOREIGN LANGUAGE

Twenty units required for the majo
I. 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). Additional units to complete the major can be selected from a second language area
French

| Fr 1 | Elementary French* ............... (5) |
| :---: | :---: |
| Fr 2 | Elementary French** ............... (5) |
| Fr 3 | Intermediate French . . . . . . . . . . . . (4) |
| Fr 4 | Intermediate French Reading and Writing $\qquad$ |
| Fr 10 | Intermediate Conversational French .. (3) |
| Fr 11 | Intermediate Conversational French .. (3) |

Elementary Spanish*** Elementary Spanish** Intermediate Spanish
Intermediate Spanish Intermediate Spatish ..............
Inter. Converstional Spanis.
Advanced Conversalion Inter. Conversational Spanish......... (
Advanced Conversational Spanish....

## Spanish (Bilingual)

## $\begin{array}{ll}\text { Span 20A } & \text { Bilingual Spanish } \\ \text { Span 20B } & \text { Bilingual Spanish }\end{array}$ <br> $\begin{array}{ll}\text { Span 21 } & \text { Intermediate Bilingual Spanish } \\ \text { Span 22 } & \text { Advanced Bilingual }\end{array}$ Advanced Bilingual Spa

pleted in one of the areas listed below)

Fr 20A French Drama: Reading and
Fr 20B Ferformance...............
Fr 40 Performance................

Introduction to French Civilization and Culture Beyond France Elementary German Conversational Germa
Conversational German.
Elementary Italian
Elementary latian ......................... 22

Beginning Conversational Spanish and Culture ................. Beginning Conversational Spanish The Spanish Sound System .... | Introduction to Spanish Literatur |
| :--- |
| (Conducted in Spanish) | Introduction to Spanish America Literature (Conducted in Spanish) Interpretation

The Mexican American in Literature. The Mexcian American in Literature.. Civilization of Spain and Portugal
Civilization of Spanish America
 Introduction
Studies
History and Culture of the
Philippines ..........

## Some courses may be waived through testing or adrace

 ment.Students with one year high school foreign language skills in listening, speaking, reading, and writing, meeting course 1 objectives, Span 3 , Ger 3); three years, course 3 or 4 ; four years, course 5 .
Spars 2 . ermediate level conversational courses should be taken con. currently: Fr 10 and Fr 3; Fr 4 and Fr 11; Span 10 and Span instructors and counselors in order fo determine whether they have met the performance guidelines as defined in the description of competence by levels. This description is avaiable in the Center and the Language Department.
${ }^{*}$ Completion of Fr 1 A and 1 B sequence is equivalent to Fr 1 . $* *$ Completion of Fr 2 A and 2 B sequence is equivalent to Fr 2 .

| Physical Science |  |
| :---: | :---: |
| Anthro 1 | Physical Anthropology ............... (3) |
| Astron 21 | Elementary Astronomy .............. (3) |
| Chem 1A | General Inorganic Chemistry ......... (5) |
| Chem 1B | General Inorganic Chemistry ......... (5) |
| Chem 5 | Quantitative Analysis ............... (4) |
| Chem 12 | Organic Chemistry . . . . . . . . . . . . . (5) |
| Geog 1 | Physical Geography ................... (3) |
| Geol 1A | Physical Geology ..................... (4) |
| Math 2 | Advanced Algebra \& Trigonometry.... (5) |
| Math 3A | Analytic Geometry \& Calculus....... (5) |
| Math 3B | Analytic Geometry \& Calculus....... (5) |
| Math 4 | Calculus \& Differential Equations .... (5) |
| Phys Sci 25 | Introduction to Physical Science ..... (4) |
| Phys 2A | General Physics.................. (4) |
| Phys 2B OR |  |
| Phys 4A | Principles of Physics ............ (4) |
| Phys 4B | Principles of Physics ................ (4) |
| Phys 4C | Principles of Physics.............. (4) |
| GOVERNMENTAL MANAGEMENT PUBLIC SERVICE ADMINISTRATION |  |

Twenty-ne to 22 units required for the majo

1. Required courses for the major

| Bus 8 | Personnel Management |
| :---: | :---: |
| Bus 70 | Fundamentals of Governmental Management |
| Bus 71 | State and Local Government |

II. Acceptable courses for the major (select 3 courses from the Bus 6

| Bus 6 | Management Concepts of Supervision. |
| :---: | :---: |
| Bus 7 | Human Relations in Management .... (3) |
| Bus 50 | Intro. to Information Systerms . . . . . . (3) |
| WE Occ 82 OR | Labor and the Economy |
| WE Occ 83 | Laws Affecting Employees |

## GRAPHIC ART

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

| GA 10 | Graphic Communication I........... (2) |
| :---: | :---: |
| GA 11 | Graphic Communication II ........... (3) |
| GA 12 | Composition, Layout, and Paste-up... (3) |
| GA 20 | Offset Printing I . . . . . . . . . . . . . . . . (3) |
| GA 21 | Offset Printing II ..................... (3) |
| GA 22 | Photography and Platemaking ........ (3) |
| GA 23 | Bindery, Cutting, and Distribution.... (2) |
| GA 30 | Graphics Plant Operation and Management Fundamentals (3) |

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

II. With the approval of his/her counselor and Chairperson, the student will select a minimum of 9 units depending on areas of emphasis) from the following courses It is considered advisable for students in certain areas o emphasis to take more than 9 units from the list below.
$\begin{aligned} & \text { Anthro } 2 \\ & \text { Bus } 6\end{aligned}$ Cultural Anthropology ................. (3)

| s 6 | Management Concepts of Supervision. |
| :---: | :---: |
| Bus 7 | Human Relations in Management |
| Bus 50 | Intro. to Informatio |
| Bus 79/Jrn 8 | Public Relations Tech |
| HR/Psych 8 | Personal \& Career Deve |
| HR/Psych 10 | Small Group Leadership |
| Jrn 3 | Mass Communications |
| Psych 1B | Learning and Percep |
| Psych 2 | Intro. to Physiological Psy |
| Psych 5 | Psychology of Effective Be |
| Psych 13 | Elementary Statistics |
| Psych 14 | Abnormal Psychology |
| Psych 15/ Sociol 15 | Social and Psychological Dynami |
|  |  |
|  | The Psycholosy of Interpersonal Relationships ............. |
| Psych 17/ |  |
| Sociol 17 | Social Ps |
| Psych/ECE 20 | Developmental Psych. of C |
| Psych/ECE 26 | Principles of Parenting |
| Psych 30 | Psychology of Adolescence |
| Psych 35 | Developmental Psychology: Conception to Death |
| Psych 40 | Psychology of Crisis Couns |
| Sociol 2 | Contemporary Soc |
| Sociol 10 | Sociology of Minority Gro |
| Sociol 33 | Marriage and the Fan |

Strongly recommended that students who do not speak Spanish take a series of courses in Conversational Spanish

## NDIVIDUAL INTERDISCIPLINARY MAJO

This major for an Associate Degree provides occupationa sions to meet a specific job need concentration within two div sions to meet a speciic job need.
The requirements for the major will be met by satisfactory com pletion of 9 (or more) units in each division.
The courses required will be approved by division chairpersons, a counselor, and the Dean of Vocational-Technical Education The student will initiate the request for the major through the Counseling Office.

JOURNALISM

## wenty-four units required for the major

I. Required courses for the majo

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[^2]




Completion of a minimum of 18 units of lower division courses that are required or recommended subjects as specified for upper student plans to transfer.
or a specific college requires courses in more than one division sity of California publication "Prerequisites and Recommended catalogs) are as follows: California State University, San Diego atalog) are as follows:
Art Design .................. Agriculture, Mathematics, Social Science, Art Design ......................... Anthropology, History, Philosophy
Anthropology ... Biological Science, Psychology, English, Mathematics

Bitog sale, Chemistry, Physics, | Mathematics |
| :---: | Business ........... Business, Social Science, Mathematics, English

Comparative Literature ............ English, History, Philosophy, Criminology ............... English, Foreign Language, Sorecial Scienciage,
 English $\ldots . . . . . . . . . . . . . . . . . .$. English, Social Science, Philosophy
Engineering .......... Engineering, Mathematics. Phsysical Scince
Foreign Language .......... Foreign Language, History, Philosophy Home Economics .......... Biological Science, Physics, Mathematics, Physical Education ............Physical Education, Biological Science, Pre.Dentistry ................. Biological Science, Physicial Science, $\begin{gathered}\text { Mnglish, Social Science, } \\ \text { Ender }\end{gathered}$ Pre-Physiotherapy $\ldots \ldots \ldots \ldots$......iological Sciencce, Physicial Science, $\begin{gathered}\text { Encien, Sce } \\ \text { Mathematics, Social Science }\end{gathered}$

Psychology . ....... Biological Science, Mathematics, Physical Science, Recreation Social Scien Mathematic

Students in the Genera Major wi work out in conternice with a counselor a course of study that will meet requirements for the

GENERAL OFFICE TECHNICIAN
or the majo
Bus 21ABC Proficiency-Exit Typewriting ...... (3-3-3)
Word Proce
 Office Procedures..................(3) Business Cons. Corresp. . (2 or 3)
II. Acceptable courses for the major (minimum of 3 units

| Bus 10A | Practical Bookkeeping $\ldots \ldots \ldots \ldots \ldots$ (3) |
| :--- | :--- |
| Bus 13 | Applied Business Law $\ldots \ldots \ldots \ldots \ldots$ (3) |
| Bus 40 | Grammar and Usage $\ldots \ldots \ldots \ldots \ldots$ (3) |
| Bus 43 | Bus. Correspondence in Spanish.... (3) |
| Bus 50 | Intro. to Information Systems...... (3) |

III. Recommended electives (do not fulfill requirements for the major). These courses will assist students in gaining addiWE Gen $70 /$

| Occ 80 | Personal Efficiency ............. (3) (4) |
| :---: | :---: |
| WE Gen 71/ |  |
| WE Occ 81 | Motivation ................... (3) (4) |
| WE Gen 72/ |  |
| WE Occ 82 | Labor and the Economy ......... (3) (4) |
| WE Gen 73/ |  |
| WE Occ 83 | Laws Affecting Employees . . . . . . (3) (4) |

GENERAL SCIENCE
Successful completion of all courses offered in one subject field Anatomy, Biology, Botany, Chemistry, Geology, Math, Physics, least two other subject fields (we combined with courses from at Physical Science) to accumulate 18 hours for the Geeral Natural. Major.
The most reliable guide for appropriate course combinations in this major will be the catalog from the specific college to which

Natural Science

| Anat 8 | Human Anatomy .................. (4) |
| :---: | :---: |
| Anat 10 | Human Anatomy \& Physiology ...... (5) |
| Bio 3 | Principles of Biological Science . . . . . . (4) |
| Bio 21 | General Microbiology . . . . . . . . . . . . (5) |
| Env Sci/Ag 5 | Man and His Envirotment . . . . . . . . . (3) |
| Physio 1 | Human Physiology ................. (4) |
| Zool 1A | General Zoology ................... (4) |
| Zool 1B | General Zoolo |

II. Acceptable courses for the major (minimum of 3 units from the following courses)

| Econ 1 | Principles of Economics |
| :---: | :---: |
| Econ 2 | Principles of Economics. |
| Eng 1B | Introduction to Literature |
| Jrn 8/Bus 79 | Public Relations Techniques |
| Sociol 1 | Principles of Sociology |
| Sociol 2 | Contemporary Social Problems |
| MPP 10/ | Introduction to Motion Picture |
| Eng 56 | Production |
| Poly Sci 1 | Introduction to Political Science |
| *Poly Sci 2 | American Government \& Politics |
| Bus 20 | Elementary Typewriting |
| Sp 1 | Oral Communication |
| Eng 53AB | Creative Writing |
| Ph 8 | Multi-Media |
| Ens/Hum/ | Introduction to Film History |

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

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

| Bus 5A | Business Law ...................... (3) |
| :---: | :---: |
| LA 21 | Research and Criminal Law ......... (3) |
| LA 22 | Civil Procedures and Family Law ..... (3) |
| LA 23 | Civil Discovery and Torts ............ (3) |
| LA 24 | Corporations and Bankruptcy ....... (3) |
| LA 25 | Real Estate Law for Legal Assistants. . (3) |
| LA 26 | Wills-Trusts-Probate . . . . . . . . . . . . . 3 ) |

(See leacher Preparation)

## LIFE SCIENCE

Eighteen units required for the major

1. Required courses for the major (minimum of 18 units from

| Anat 8 | Human Anatomy .................. (4) |
| :---: | :---: |
| Anat 10 | Human Anatomy and Physiology ..... (5) |
| Bio 3 | Principles of Biological Science . . . . . . (4) |
| Bio 21 | General Microbiology ............... (5) |
| Physio 1 | Human Physiology . . . . . . . . . . . . . . (4) |
| Zool 1A | General Zoology ................... (4) |
| Zooi 1B | General Zoology .................. . (4) |
| Env Sci/Ag 5 | Man and His Environment . . . . . . . . . (3) |
| Anthro 1 | Physical Anthropology .............. (3) |
| (maximum of 6 units from the following courses) |  |
| Chem 1A | General Inorganic Chemistry ........ (5) |
| Chem 1B | General Inorganic Chemistry ........ (5) |
| Chem 5 | Quantitative Analysis ............... (4) |
| Chem 12 | Organic Chemistry . . . . . . . . . . . . . (5) |
| Chem 2A | Introduction to Chemi |

MARKETING-SALES TECHNOLOGY
Eighteen units required for the majo

1. Required courses for the major

## Bus 2 Bus 4

ntroduction to Business
Principles of Marketing
Applied Business Law
Applied Business Law
Bus 13
Bus 14
II. Acceptable courses for the major ( 6 units from the following courses)

| Bus 1A | Principles of Accounting ........... (4) |
| :---: | :---: |
| Bus 10A | Practical Bookkeeping |
| Bus 21ABC | Proficiency-Exit Typewriting ...... (3-3-3) |
| Bus 23 | Office Machines................... (3) |
| Bus 65 | Retail Sales Checking . . . . . . . . . . . . (2) |
| Bus 66 | Effective Customer Service . . . . . . . . . . .5 ) |
| Econ 1 | Principles of Economics |
| Span 1 | Elementary Spanish ............... (5) |

## MATHEMATICS

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

Math 3A
Math 3B $\begin{aligned} & \text { Analytic Geometry \& Calculus...... (5) } \\ & \text { Analytic Geometry \& Calculus...... (5) }\end{aligned}$
II. Acceptable courses for the major

| Math 2 | Advanced Algebra and Trigonometry ...... |
| :---: | :---: |
| Math 4 | Calculus \& Differential Equations |
| Math 12 | Elementary Statistics |
| Math 47 | Programming in Fortran |
| Math 57 | Programming in Basic |
| Math 58 | Computer Programming |

## MUSIC

Twenty-nine units required for the majo
I. Required for the major (minimum of 25 units from the foilow ing courses)
a. Academic courses (minimum of 20 units from the follow ing courses)


Music 8 A and 9 A must be taken concurrently and the Note: Music 8 A and 9 A must be taken
sequence followed through 8 D and 9 D
b. Applied Music (minimum of 5 units from the following courses). (Requirement may be waived through prof ciency examination.)
 Mus 32AD Applied Music
c. Performance Ensembles (minimum of 4 units from the following courses)
Mus 17AD Chamber Singers $\ldots \ldots \ldots \ldots(11 \cdot 1 \cdot 1 \cdot 1)$
Mus 18AD Chamber Orchestra $\ldots \ldots . . .(1 \cdot 1-1 \cdot 1)$ Mus 18AD Chamber Or
Mus 27AD Concert Band Mus 28AD College Community Chorus
Note: All music majors are required to perform in at least on of the above college music organizations every semester


## NURSIN

Associate Degree Nursing
Forty-six and one-half units of nursing required for the major Thirty-three support course units required to complete the nurs ing program.

## Pre-Application Requirements $\begin{array}{cl}* \text { Eng 1A } & \text { Reading and Comprehension........ } 3 \\ \text { Eng 11 } & \text { Reading IV: Analytical \& Critical }\end{array}$ <br> 

Pre-Clinical Nursing

## $\begin{array}{llr}\text { HT 1 } 1 & \text { Introduction to Health Science } \ldots \ldots .2 \\ \text { Psych 1A } & \text { Introduction to Psychology .........3 } \\ \text { Anat 10 } & \text { Human Anatomy \& Physiology } & \ldots \ldots 5 \\ & & \text { TOTAL } \\ & & 10\end{array}$

| First Semester |  |
| :---: | :---: |
| Psych 35 | Developmental Psychology: |
| Bio 21 | General Microbiology . . . . |
| NS 1A (R) | Introduction to Patient Care I. |
| NS 1B (R) | Introduction to Patient Care II ...... 4 |
| NS 1C (R) | Pharmacology I . . . . . . . . . . . . . . . 1.5 |


| Second Semester |  |  |
| :---: | :---: | :---: |
| Psych 16 | The Psychology of Interpersonal Relationships |  |
| NS 2A (R) | Maternity Cycle . . . . . . . . . | 5.5 |
| NS 2B (R) | Common Health Problems I | 5.5 |
| NS 2C (R) | Pharmacology II....... |  |
|  | total | 16 |

Third Semester


## Fourth Semeste



$$
\begin{array}{ll}
\text { TOTAL } & 16
\end{array}
$$

*Eng 1A is required to meet the Board of Registered Nurs approved 79.5 units.

## Vocational Nursing

Thirty-five and one-half units required for the major. Fourte support course units required to complete the vocational nursing program
Pre-Application Requirements

| Eng 1A | Reading and Composition |
| :---: | :---: |
| Eng 11 | Reading IV: Analytical and Critical Reading. |
| Math X | Beginning Algebra . . . . . . . . . . . . . 3 |

Pre-Clinical Nursing


Second Semester

| Psych 16 | The Psychology of Interpersonal Relationships |
| :---: | :---: |
| NS 2A (V) | Maternity Cycle................ |
| NS 2B (V) | Common Health Problems I |
| NS 2C (V) | Pharmacology II. |
|  | TOTAL |


| Third Semester |  |
| :---: | :---: |
| NS 3A (V) | Common Health Problems II $\ldots \ldots \ldots 6.5$ |
| NS 3B (V) | Common Health Problems III $\ldots \ldots \ldots .5$ |
| NS 3C (V) | Patient Care Management $\ldots \ldots \ldots \ldots .5$ |
|  | TOTAL |

## OFFICE ADMINISTRATIVE SERVICES

Twenty-three to 30 units required for the major

1. Required courses for the major
Bus 21ABC Proficiency-Exit TypewritingBus 21ABC $\begin{gathered}\text { Proficiency-Exit Typewriting . } \\ \text { ( } 55 \text { wpm skill level required) }\end{gathered}$(3-3-3)

Bus 22A
Bus 22B
Word Processing.

Bus 23
Bus 39
Bus 40
Bus 41 O
Bus 41
Bus 42
Bus 50
Bus 42
Bus 50
Oord Processing ..
Office Procedures.
Grammar and Usage ..
Essentials of Bus. Corres.
Butiness Communications

## PATIENT SERVICES ADMINISTRATION

Twenty-six to 32 units required for the major
I. Required courses for the major

II. Recommended Advanced Medical Transcription

Recomm
major)


PHYSICAL EDUCATION
ineteen units required for the major

1. Required courses for the major

.. (3)
II. Select six (6) units from the following courses

| PE 3ABCD | Physical Fitness, W |
| :---: | :---: |
| PE 4ABCD | Badminton, Coed ..............(1-1-1-1) |
| PE 5ABCD | Swimming, Coed |
| PE 7 | Water Safety Instru |
| PE 9ABCD | Adapted Physical Exercises, Coed |
| PE 10ABCD |  |
| PE 11 ABCD | Volleyball, Coed ...............(1-1-1-1) |
| PE 12ABCD | Tennis, Coed .................. (1-1-1-1) |
| PE 13 | Advanced Tennis, Coed ............ (1) |
| PE 14ABCD | Recreational Games, Coed ......(1-1-1-1) |
| PE 17ABCD | Physical Fitness, Men...........(1-1-1-1) |
| PE 18 ABCD | Golf, Coed ....................(1-1-1-1) |
| PE 20ABCD | Softball, Coed .................(1-1-1-1) |
| PE 22ABCD | Racquetball \& Handball, Coed ...(1-1-1-1) |
| PE 23ABCD | Basketball for Women .......... (1-1-1-1) |
| PE 24ABCD | Basketball for Men .............. (1-1-1-1) |
| PE 26ABCD | Modern Dance, Coed. ...........(1-1-1-1) |
| PE 28ABCD | Dance Theater, Coed. ........... (2-2-2-2) |
| PE 29ABCD | Jazz Dance, Coed .............(1-1-1-1) |
| PE 30ABCD | Song and Cheer . . . . . . . . . . . . (2-2-2.2) |
| PE 32ABCD | Intercollegiate Basketball \& PE ..(2-2-2-2) |
| PE 34AB | Intercollegiate Baseball \& PE .......(2-2) |
| PE 35AB | Intercollegiate Wrestling \& PE . ....... (2-2) |
| PE 38AB | Intercollesiate Tennis \& PE.......... $(2-2)$ |
| PE 40ABCD | Synchronized Swimming .........(2-2-2-2) |
| PE 41AB | Intercollegiate Volleyball \& PE ......(2.2) |
| PE 42AB | intercollegiate Soccer \& P |

$\mathrm{PE} 43 \mathrm{AB} \quad$ Intercollegiate Softball \& PE
Adm Jus 23 Defensive Tactics.
$\begin{array}{ll}\text { Adm Jus } 23 & \text { Defensive Tactics ..... } \\ \text { PE 51 } \\ \text { PE 52AB } & \text { Structuring Intramurals }\end{array}$
$\begin{array}{ll}\text { PE 52 } & \text { ThB } \\ \text { PE } 53 \mathrm{AB} & \text { Theory of Baseball } \\ \text { PE } & \text { Theory of }\end{array}$
PE 58
PE 58
PE 59 AB
PE 60 AB
PE 60AB
PE 62 AB
Anat 8 Care \& Prevention of Athletic Injuries
Psycholog Psychology of Co........ Sports Officiating, Men Sports Officiating, Wome......
Physical Education for Special
Olympics. Olympics...
Anat 10

$$
\begin{aligned}
& \text { Human Anatom } \\
& \text { Human Anatom }
\end{aligned}
$$

## PHYSICAL SCIENCE

Eighteen units required for the major

1. Required courses for the major (minimum of 18 units from
the following courses) Astron 21
$\begin{array}{ll}\text { Chem 1A-1B } & \text { Elementary Astronomy } \\ \text { General Inorganic }\end{array}$ $\begin{array}{ll}\text { Chem } 5 & \text { General Inorganic Chemistry } \\ \text { Chem } 12 & \text { Quantitative Analysis }\end{array}$
$\begin{array}{ll}\text { Chem } 12 & \text { Ounanic Chemistryis. } \\ \text { Env Sci/Ag } 5 & \text { Man and His Envi }\end{array}$
$\begin{array}{ll}\text { Geog } 1 & \text { Mg } 5 \\ \text { Man and His Environmen }\end{array}$
$\begin{array}{ll}\text { Geol 1A } & \text { Physical Geography } \\ \text { Phys Sci } 25 \quad \text { Physical Geology.... }\end{array}$
$\begin{array}{ll}\text { Phys Sci 25 } & \text { Physical Geology................................... } \\ \text { Introduction to Physical Science }\end{array}$ Phys 2A-2B 4 AB -4C Preral Physics...
II. Acceptable courses for the major (maximum of 6 (4.4.4) En
$\begin{array}{ll}\text { Engr 23 } & \text { Hand Calculators \& Computations ... (1) } \\ \text { Math } 2 & \text { Advanced Algebra }\end{array}$
Math 3A-3B Trigonometry....
$\begin{array}{ll}\text { Math } 4 \mathrm{~A} & \text { Analytic Geometry \& Calculus...................... } \\ \text { Calculus \& Differential Equations }\end{array}$
PSYCHOLOGY
wenty-one units required for the major
. Required courses for the major

| Psych IA Psych 1B Psych 2 | Introduction to Psychology Learning and Perception. Intro. to Physiological Psychology |
| :---: | :---: |
| Minimum of 12 units from any of the following courses: |  |
| Psych 3 |  |
| Psych 4 | Psychology of Human Sexut |
| Psych 6 | Current Issues in Psychology |
| ADS 9 | Introduction to Counseling |
| ADS 11AB | Practicum |
| Psych 13 | Elementary Statistics |
| Psych 14 | Abnormal Psychology |
| Psych 15/ | Social and Psychological Dynamics |
| Psych/HR 16 | of Drug Use ... |
|  | The Psychology of Interpersonal |
| Psych 17/ |  |
| Sociol 17 | Social Psycholog |
| Psych 30 Psych | Psychology of Adolescence |
| Psych 35 | Developmental Psychology: |
|  | Conception to De |

## REAL ESTATE

enty-seven units required for the major
I. Required courses for the major

| Bus 90 | Real Estate Principles . . . . . . . . . . . . . (3) |
| :---: | :---: |
| Bus 91 | Real Estate Practices $\ldots \ldots \ldots \ldots \ldots$ (3) |
| Bus 92A | Legal Aspects of Real Estate......... (3) |
| Bus 92B | Legal Aspects of Real Estate......... (3) |
| Bus 93 | Real Estate Finance ............. (3) |
| Bus 94A | Real Estate Appraisal . .............. (3) |
| Bus 94B | Real Estate Appraisal . ............... (3) |
| Bus 95 |  |

Recommended electives (do not fulfill requirements for th major). These courses will assist students in gaining add ional experience for the major.

WE Gen 73 Labor and the Economy ......... (3) (4)
WE Occ 83 Laws Affecting Employees........ (3) (4) RECREATION
Eighteen units required for the major
I. Required courses for the majo

| Rec 70 | Introduction to Leisure $\ldots \ldots \ldots \ldots$ (3) |
| :--- | :--- |
| Rec 72 | Outdoor Recreation.............3) |
| Rec 73 | Recreation for Special Groups......(4) |
| Rec 74 | Intro. to Community Recreation .... (3) |

Two or 3 units to be selected from the following course
$\begin{array}{ll}\text { Art 22A } \\ \text { PE 59AB } & \text { Design } \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \text {........................ } \\ \text { Sports Officiating, Men }\end{array}$

Physical Education in the
Elementary Sch
PE 62AB Physical Education for Special ....... (3)
Olympics..........................3-3)
Social Recreation ............. (3)
P
Lifesaving.
$\cdots$ (2)
Acceptable courses for the major (2 or 3 units to be selected
from the following courses)
PE 3ABCD Physical Fit
$\begin{array}{ll}\text { PE 24ABCD } & \text { Basketball for Women } \\ \text { Basketball for Men ... } \\ \text { PEHCD } & \text { Jazz Dance }\end{array}$

| PE 3ABCD | Physical Fitness, Women.......(1-1-1-1) |
| :--- | :--- |
| PE 4ABCD | Badminton, Coed $\ldots \ldots \ldots \ldots .(1-1-1-1)$ |

REHABILITATION Te, Coed
PHYSICALLY LIMITED FOR THE
Eigheen units required for the major
Required courses for the major
PL 1/Psych 27/ Understanding Exceptional
ECE 27
PL 2AB Practicnts
Practicum Experience to Work with
Psych 1A OR
Psych the Physically Limited Person.
Intro. to Psychology Intro. to Psychology
Psych. of Effective Behavior $]$
$\cdots(2-2)$
II. A minimum of 6 units must be taken from Section II $\begin{array}{ll}\text { HA 15 } & \text { Health Assistant ................... } \\ \text { PL 2AB } & \text { Practicum Experience to Work with }\end{array}$ PL 10 the Physically Limited Person.... PL 10 Beginning Communication with PL 11 Intermediate Communication with the Deaf
Literary Braille Literary Braille ...........
Psychology of Physical Disa
Introduction Introduction to Audiology $\qquad$

III. Additional units to complete the major may be utilized from
the courses under Section III the courses under Section III
$\begin{array}{ll}\text { PE } 62 \mathrm{AB} & \text { PE for Special Olympics } \ldots \ldots . .\end{array}$
$\begin{array}{ll}\text { PL } 12 & \text { Advanced Communication with }\end{array}$(3-3)
PL 13ABCD Communication with the Deaf in the .....  (3)
Psych 3
Psych 9
Psych 9
Psyych 17

Psych/ECE 20 Psychology of Adjustment...
Introduction to Counseling

Sociol 1
Sociol 2 Developmental Psych. of Children.
Recreation for Special Groups .....
Principles of Sociology Contemporary Social Pro....... Oral Communication

## SECRETARIAL*

Twenty-three to 33 units required for the major
I. Required courses for the major

| Bus 21ABC | Proficiency-Exit Typewriting ...... (3-3-3) |
| :---: | :---: |
| Bus 22A | Word Processing . . . . . . . . . . . . . . ${ }^{(3-3)}$ (3) |
| Bus 24 | Records Management |
| Bus 32AB | Records Management. ............. ${ }^{\text {(3) }}$ |
| Bus 39 | Office Procedures.................3-3) |
| Bus 40 | Grammar and Usase .............. (3) |
| Bus 41 OR | Essentials of Business |
|  | Correspondence . ........ (2) |
| Bus 42 | Business Communications ........ (3) |

To qualify for a secretarial major, the student must mum skill level of 60 words a minute in typing and 100 words a minute in shorthand dictation.
II. Recommended electives (do not fulfill requirements for the major). These courses will assist students in gaining addi-
tional experience tional experience for the majo
WE Gen 70/
WE Occ 80

| WE Occ 80 | Personal Efficiency ..................(3) (4) |
| :--- | :--- | :--- |
| WE Gen 71/ |  |
| WE Occ 81 | Motivation ................... (3) (4) |
| WE Gen 72/, |  |
| WE Occ 82 | Labor and the Economy .. |
| WE Gen 73/ |  |
| WE Occ 83 |  |

WE Occ 83 Laws Affecting Employees........ (3) (4)

SOCIAL SCIENCE
Required courses for the major The requirements for a major in Social Science may be satis-
fied by taking 18 units from the following list to include at
least one course from three of the seven fields: least one course from three of the seven fields: 6)(4)

| Anthropology |  |
| :---: | :---: |
| Anthro 1 | Physical Anthropology . . . . . . . . . . . (3) |
| Anthro 2 | Cultural Anthropology . . . . . . . . . . . (3) |
| Anthro 3A | Introduction to Archaeological Site Surveying $\qquad$ |
| Anthro 3B | Introduction to Archaeological |
| Anthro 4 | Excavations |
| Anthro 6 | Indians of North America ........... (3) |
| Economics |  |
| Econ 1 | Principles of Economics . . . . . . . . . . (3) |
| Econ 2 | Principles of Economics . . . . . . . . . . (3) |
| Geography |  |
| Geog 1 | Physical Geography ............... (3) |
| Geog 2 | Cultural Geography ................ (3) |
| History |  |
| Hist 4A | History of Western Civilization....... (3) |
| Hist 4B | History of Western Civilization. . . . . . (3) |
| Hist 10 | History of Modern Russia . . . . . . . . . (3) |
| Hist 17A | United States History ............... (3) |
| Hist 17B | 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 <br> , Relations .......................... (3) |
| Social Science |  |
| Soc Sci 52 | Intro. to American Government . . . . . (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) |

TEACHER AIDE
Twenty-four units required for the major
I. Required courses for the major
$\begin{array}{ll}\text { TA } 1 & \text { Intro. to Instructional Associate ...... (3) } \\ \text { TA/Psych } 3 & \text { Psychology of Adjustment ........... (3) }\end{array}$
$\begin{array}{ll}\text { TA/Psych } 3 & \begin{array}{l}\text { Psychology of Adjustment } . . . . . . . . . . . ~\end{array} \text { Bilingual-Multicultural Curriculum }\end{array}$
TA/ECE 6 Languase Development for Young
TA/ECE 8 Mathematics for Young Children.
$\begin{array}{ll}\text { TA } 9 & \text { Field Experience ........... } \\ \text { ECE/Psych } 20 \text { Developmental Psychoulogy of }\end{array}$
ECE/Psych 24 Creative Learning Experiences for
Young Children
TEACHER PREPARATION
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
CREDENTIAL for teachers in a self-contained classroon CREDENTIAL for teachers in a self-contained classroom as
commonly practiced in California elementary schools. The other is the SINGLESUBJECT CREDENTIAL for teachers responsible for only one subject as practiced in junior and senior high schools.

To satisfy the requirements for the MULTIPLE SUBJECT CREDENTIAL, the student must either pass an examination
(National Teachers Examination - Commons Section) or com (National Teachers Examination - Commons Section) or com-
plete an approved major This plete an approved major. This major must cover 84 semester units
with 21 units in each of the following areas: (1) English and Com. with 21 unts in each of the following areas: (1) English and Com-
munications, (2) Mathematics and Science, (3) Social Science, munications, (2) Mathematics and Science, (3) Social Science,
(4) Humanities and Fine Arts, including Foreign Language. Most universities have developed LIBERAL STUDIES maiors which
have been approved for this credential. The National Teachers have been approved for this credential. The National Teachers
Examination may be taken at any time that the student feels capable of passing it. Only passing scores are to be submitted. For those passing the examination, any degree major may be
completed. In addition to the major, professional education completed. In addition to the major, professional education
courses including student teaching are required courses inclucing student teaching are required. A
requires 30 semester units after the B.A. degree.
To satisfy the requirements for the SINGLE SUBJECT CREDEN To satisfy the requirements for the SINGLE SUBJECT CREDEN. mal, the individual must pass an examination
major one of the areas listed below:

| Agriculture | History | Music |
| :--- | :--- | :--- |
| Art | Home Economics | Physical Education | Art

Busin Business ducation Physical Scienc Government Health Science Mathematics
Other degree majors may be subsumed under these categories e.g., Speech, Drama, Journalism under English. Check the uni versity catalog for specific listings. A person would increase the possibilities for employment by passing several examinations in
addition to his/her major. It is no longer possible to teacha "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
These credentials require advanced preparation after the individ

| Agriculture | Physically Handicapped |
| :--- | :--- |
| Bilingual - Cross Cultural | Learning Handicapped |
| Early Childhood Education | Severely Handicapped |
| Mathematics | Gifted |

Mathematics
Reading Gifted Visually Handicapped
Communication Handicapped
SERVICES CREDENTIALS
These also require advanced preparation after a valid teaching

| Pupil Personnel | Librarianship |
| :--- | :--- |
| Health | Administrative |

Clinical Rehabilitative

## LIbERAL STUDIES MAJOR

The major in Liberal Studies offers a diversified curriculum for hose who are attracted to a nontraditional interdisciplinary pro prepare students for graduate work in such fields as law and min. istry; or work in business, human services, government, and
public relations; or to pursue intellicetual fulfillment for its public relations; or to pursue intelliectual fulfillment for its own
sake; and, (2) to qualify students to teach in public school of sake; and,
California.

Three options are available. The first is a flexible program of study which assures a breadth of education and provides opportunity for either concentration in an area of one's choice or further explora hould see a counselor or consult a catalog to assursue option ive coursework). The second is the required lower division curr culum for the multiple subject teaching credential, and the thir the lower division curriculum for a multiple subject credentia with a Bliingual Emphasis (Spanish/English)
Completion of the required core plus either option II, elementary English), will satisfy the major requirements for an associate degree from Imperial Valley College. It will also prepare the student for upper division course work in the Liberal Studies major
Forty-four to 52 units required for the major
I. Required Core
A. Eng 1A Reading and Composition ............ (3)
B. Eng 50 Advanced Composition ............ (3)
C. Sp 1 Oral Communication

Oral Communication
(3)
. Eng 1B OR Intro. to Literature
Survey of World Literature
Survey of World Literature
E. Math 10A Math for Elementary School Teachers

Math 10 B
F. Bio 3 OR

Math for Elem. School Teachers II ..
Zool 1 $\left.\begin{array}{l}\text { Prin. of Biological Science } \\ \text { General Zoology }\end{array}\right]$
... (3)
G. Astron 21 Elementary Astronomy ...........(3)
H. Art 20A OR Dra

Art 22A
Mus 7
I. Psych 1 A

Introduction to Psychation
Phil 1A OR
. (3)

.. (3)
Recommended Core
Eng 5
Introduction to Lingustics
(3)

To enter San Diego State University upper division Liberal Studies major (option II or option III) with
the following must be completed:
II. Option II - Regular Elementary Teacher Emphasis
i1. Option II- Regular Ele
A. Choose one course from the list below or one course not selected fr
required)

| Anthro 1 | Physical Anthropo |
| :---: | :---: |
| Chem 2A | Introduction to Chemistry ............ (4) |
| Geog 1 | Physical Geography ................ (3) |
| Math 58 | Computer Programming in Pascal .... (3) |
| Math 2 | Advanced Algebra \& Trigonometry . . . (5) |
| Phys 2A | General Physics................... (4) | C

. Anthro 2 OR Cultural Anthropology ${ }_{y}^{\log y}$
C. Western Civilization ( 3 units required)

D. Mus 7 OR Art 22A

Intro. to
Drawing
Design
MAJORS
. Choose one course from the list below OR ....... (3) selected in Part I, Required Core, items H and J; or Part II, Anthro 4 ( 4 ins required) $\begin{array}{ll}\text { Drm Arts 20A } & \text { California Indians } \\ \text { Fum } \\ \text { The }\end{array}$ Hum 25
Mus 30

| Mus 30 | Intro. to Music Literature \& Listenin |
| :---: | :---: |
| Span 1 | Elementary Spanish ............... |
| Span 2 | Elementary Spanish |
| Span 3 | Intermediate Spanish |
| Span 4 | Intermediate Spanish |
| Span 20A | Bilingual Spanish |
| Span 20B | Bilingual Spanish |
| Span 21 | Intermediate Bilingual Spanish |
| Span 22 | Advanced Bilingual Spanish |
| Span 23 | Bilingual Oral Spanish |
| Fr 1 | Elementary French |
| Fr 2 | Elementary French |
| Fr 3 | Intermediate French |
| Fr 4 | Inter. French Reading \& Writing |
| PE 61 | PE in the Elementary Schoo |

F. PE 61 PE in the Elementary School
III. Option III - Bilingual Emphasis (Spanish/English) (13 units required)
A. $\begin{array}{ll}\text { Anthro } 2 \text { OR } \\ \text { Geoo } 2\end{array}$ Cultural Anthropology
B. Western Civilization (3 units required)

| Art 3A | History and Appreciation of Art |
| :--- | :--- |
| Art 3B |  |

Drm Arts 5A History of World Drama
Drm Arts 5B $\quad$ History of World Drama $\begin{array}{ll}\text { Hist 4A } \\ \text { Hist 4B } & \text { History of Western Civilizatio } \\ \text { History of Western }\end{array}$ Hum 1A Man and the Arts
C. Span 20B OR Bilingul Spanish
D. PE 61 Intermediate Spanish ]

NOTES
PE in the Elementary School
The California Basic Educational Skills Test (C-Best) must be passed before a student may be admitted to any teachereducation
program in the state of California It is highly recommended that program in the state of California. It is highly recommended that
this test be taken following the successful completion of Eng 1 A and Math 10A.

## WATER TREATMENT TECHNOLOGY

## Twentr seven units reqired for the maio

1. Required courses for the major

| WT 1 | Water Treatment Plant Operator |
| :---: | :---: |
| WT 2 | Water Treatment Plant Operator II |
| WT 3 | Water Treatment Plant Operator III |
| WT 6 | Computational Procedures for Treatment Plant Operator I |
| WT 9 | Waste Water Treatment I |
| WT 10 | Waste Water Treatment III |

Business Management .............
Management Concepts of Supervision Managemeent Concepts of
Human Relations in Management General Inorganic Chemistr

## WELDING TECHNOLOGY

The practice of joining metals by welding is becoming more of a
science every day. Imperial Valley College recoanizes this and science every day. Imperial Valley College recognizes this and
consequently has instituted a two-year Associate Degree program in Welding Technology. This program is designed to train technicians by giving the student ample laboratory welding practice along with related theory, plus a firm background in associated The welding facility consists of an indoor, air-conditioned laborawelders, and resistance welders.
Graduates from this program will find many opportunities for employment with aircraft industries, shipbuilding companies,
construction crews, etc. The future is almost unlimited for the student with interests along these lines.
Twenty units required for the major
I. Required courses for the major


## CERTIFICATE PROGRAMS

ADMINISTRATION OF JUSTICE
Twenty-one to 24 units required for the certificate

| Adm Jus 21 | Intro. to Administration of Justice |
| :---: | :---: |
| Adm Jus 33 | Concepts of Criminal Law. |
| Adm Jus 35 | Legal Aspects of Evidence. . . . . . . . . (3) |
| Adm Jus 36 | Principles and Procedures of the Justice Sustem. |
| Adm Jus 37 | Juvenile Control |
| Adm Jus 38 | Community Relations .............. . (3) |
| Eng 2B | Basic English Composition .......... (3) |
| Eng 12B | Reading III: Intermediate Development (3) |

AGRICULTURAL ENGINEERING TECHNOLOGY
Provides the student with technical knowledge of mechanization one of the hundreds of agriculture support services in the Imperial Valley.
Twenty-seven to 29 units required for the certificate

1. Required courses for the certificate

| Aget 28 | Power Equipment Operation and Maintenance. $\qquad$ |
| :---: | :---: |
| Aget 34 | Power Transmission Systems . . . . . . . (4) |
| Aget 35 | Fluid Power ..................... (3) |
| Aget 37 | Small Gasoline Engines ............ (3) |
| Aget 39 | Fundamentals of Diesel Power ...... (4) |
| Aget 50 | Applied Mathematics (if required) ... (1-3) |
| Weid 31 | Basic Welding . . . . . . . . . . . . . . . (5) |

iI. Acceptable courses for the certificate ( 3 units from the

Auto Tech 54 Carburetors, Fuel Injection and Auto Tech 58 Exhaust Systems ...
Auto Tech 60 Autemotrive Air-Conditioning ......... (3) Auto Tech $65 \begin{gathered}\text { and Related Electrical Systems.... (5) } \\ \text { Basic Machine Shop Technology .... (3) }\end{gathered}$

AGRICULTURE BUSINESS MANAGEMENT
Twenty-five units required for the certificate
I. Required courses for the certificate

| Ag 15 | Pesticicide Safety . . . . . . . . . . . . . . (1) |
| :---: | :---: |
| Ag 22 | Intro. to Agricultural Economics ..... (3) |
| Ag 25 | Agricultural Business Management ... (3) |
| Ag 26 | Agricultural Business Organization and Management. |
| Ag 27 | Agricultural Sales and Service <br> Management |
| Ag 29 | Computer Applications in Agriculture |
| Ag 30 | Food \& Fiber in a Changing World ... (3) |
| Ag 40 | Soils............................ (3) |
| Select one course from the following: |  |
| Aget 50 | Applied Mathematics . . . . . . . . . . . ${ }^{\text {(3) }}$ |
| Ag 14 | Entomology ...................... (3) |
| Bus 4 | Principles of Marketing ............. (3) |
| Bus 5A | Business Law . . . . . . . . . . . . . . . . . . (3) |
| Bus 5B | Business Law ...................... (3) |
| Bus 10A | Practical Bookkeeping .............. (3) |

ALOCHOL AND DRUG STUDIES
Twenty-seven units required for the certificate
I. Required courses for the certificate

ADS/Psych;
HR $9 /$ sych/
ADS/Psych/
Introduction to Counseling ........... (3)
HR 11 AB
Practicum
(3.3)

ADS/Sociol $15 \begin{aligned} & \text { Social and Psychological Dynamics } \\ & \text { of Drug Use }\end{aligned}$ ADS/Sociol 50 Human Services in
ADS 51 Alcoholism: Intervent................(3)
ADS $51 \quad \begin{gathered}\text { Alcoholism: Intervention, Treatment } \\ \text { and Recovery.................. }\end{gathered}$
ADS 52 Physiological Effects of Alcohol and Drugs..
Minimum of 6 units from any two of the following courses ADS/Psych 53 Group Leadership \& Group Process . (3) ADS 5

$$
\begin{aligned}
& \text { Group Leadership \& Group Process. } \\
& \text { Family Counseling Approaches to } \\
& \text { Alcohol \& Drua Abuse }
\end{aligned}
$$ Alcohol \& Drug Abuse ...... ADS/Psych 55 Crisis Intervention and Referral ADS 56 Techniques...........................

Program Management Techniques ... (3) Minimum of 3 units from any of the following ADS/Sociol 10 Sociology of Minority Groups........ (3)
ADS 57ABCD Current Issues in Drug ADS 57ABCD Current Issues in Drug $\begin{gathered}\text { Abuse } \ldots \ldots \ldots \ldots . . .(1-3,1 \cdot 3,1 \cdot 3,1-3)\end{gathered}$

| II. Recommended courses (do not fulfill certificate require ments) |  |
| :---: | :---: |
| Psych 3 | Psychology of Adjustment . . . . . . . . . (3) |
| Psych 4 | Psychology of Human Sexuality ...... (3) |
| Psych/HR 16 | The Psychology of Interpersonal |
| Psych 30 |  |
| Psych 35 | Developmental Psyc |
|  | Conception to Death ............. (3) |
| Sociol 33 | Marriage and the Family |

FIELD ARCHAEOLOGY
Twenty-four units and 100 hours of field work required for the
I. Required courses for the certificate

| Anthro 1 <br> Anthro 2 <br> Anthro 3A | $\mathrm{Ph}$ |
| :---: | :---: |
|  | Cultural Anthropology ................ (3) |
|  | Introduction to Archaeological Site |
|  |  |
| Anthro 3B | Introduction to Archaeological |
|  |  |
| Anthro 3C | Advanced Archaeological Survey...... (3) |
| Anthro 3D | Advanced Archaeological |
|  | Excavations .................... (3) |
| Anthro 4 | California Indians .................... (3) |
| Three units to be selected from the following courses |  |
| Bio 3 | Principles of Biological Science....... (4) |
| Geog 1 | Physical Geography ................ (3) |
| Geol 1A | Physical Geology . . . . . . . . . . . . . . . . (4) |
| Geol 13 | Geology of California ................ (3) |
| Zool 1A | General Zoology ................. (4) |
| Zool 1B | General Zoology ................... (4) |

## AUTO BODY REPAIR AND PAINTING

Twenty-four to 27 units required for the certificate
$\begin{array}{ll}\text { Auto Tech } 50 & \text { Applied Mathematics, if required ....(1-3) } \\ \text { Auto Body } 70 & \text { Auto Body Repairing \& Painting }\end{array}$ $\begin{array}{ll}\text { Auto Body } 70 & \text { Auto Body Repairing \& Painting ..... } \\ \text { Auto Body } 71 & \text { Advanced Auto Body Repairing and }\end{array}$

Painting $. . \ldots \ldots \ldots \ldots \ldots \ldots . .$. ................
Auto Tech 53 Collision Repairing Maj...............
$\begin{array}{ll}\text { Auto Tech } 53 & \text { Brakes and Suspension } \ldots \ldots \ldots \ldots \ldots \text { (5) } \\ \text { Weld 31 OR } & \text { Basic Welding } \\ \text { Weld 31A \& } & \text { Oxy-Acetylene Welding }\end{array}$ Weld 31B Arc Welding $\qquad$
The following courses may be substituted for any of the
bove required courses except Auto Body 70 and Auto Body
T
Auto Tech 58 Earbuertors, Fue
Exhaust System

AUTOMOTIVE TECHNOLOGY
Thirty-two units required for the certificate
Each course must be completed with a minimum grade of "C" for each course in the certificate program.
I. Required courses for the certificate*

Auto Tech 51 Engine Technology
Auto Tech 52 Manual Transmissions and Power Trains.
Auto Tech 53 Brakes and Suspension ................... (3)

Auto Tech 54 Carburetors, Fuel Injection and Auto Tech 56 Exhaust Systems
Auto Tech 58 Automotive Air-Conditioning
Auto Tech 60 Electrical, Starting, Charging, Ignitior Auto Tech 61A Automatic Transmissions ........
iI. Recommended courses for the certificate (do not requirements for the certificate)
Auto Tech 55 Advanced Gasoline Engines and Auto Tech 57 Fluid Power
Auto Tech 59 Small Gasoline Engines $\begin{array}{ll}\text { Auto Tech } 65 & \text { Basic Machine Shop Technology } \\ \text { Auto Tech } 66\end{array}$ Auto Tech 66 Adv. Machine Shop Technology $\begin{array}{ll}\text { Auto Tech } 75 & \begin{array}{l}\text { Basic Shop Skill } \\ \text { Weld } 31\end{array} \\ \text { Basic Welding } .\end{array}$
Student must satisfy the Imperial Valley College Matherr ompetency requirements for the certificate.

## BANKING

ADMINISTRATIVE CERTIFICATE IN BANK OPERATIONS
Twenty-three units required for the certificate

| Bus 1A | Principles of Accounting <br> Bus 1B <br> Principles of Accounting |
| :--- | :--- | $\begin{array}{ll}\text { Bus 1B } & \text { Principles of Accounting } \\ \text { Bus } 6 & \text { Management Concepts of }\end{array}$ Supervision........................

Human Relations in Managemen $\begin{array}{ll}\text { Bus } 7 & \begin{array}{l}\text { Human Relations in Managemen } \\ \text { Pus } 60\end{array} \\ \text { Principles of Bank Operations .. }\end{array}$
Select any two of the following electives
Bus 5A Business Law .
$\begin{array}{ll}\text { Bus 42 } & \text { Business Communications } \\ \text { Econ } 1 & \text { Principles of Economis. }\end{array}$
Sp 1 Oral Communication
CREDIT ADMINISTRATION CERTIFICATE
Twenty-three units required for the certificate

| Bus 1A | Principles of Accounting |
| :---: | :---: |
| Bus 1B | Principles of Accounting |
| Bus 60 | Principles of Bank Operations |
| Bus 61 | Analysis of Financial Statements |
| Bus 62 | Installment Credit |
| Select any two of the following electives |  |
| Bus 5A | Business Law |
| Bus 7 | Human Relations in Management |
| Bus 42 | Business Communications |
| Bus 63 | Financing Business Enterprises |
| Bus 64 | Agricultural Finance |
| Econ 1 | Principles of Economic |

## GENERAL CERTIFICATE IN BANK SERVICES***

## wenty-three to 30 ints required for the certificate

| Bus 5A | Business Law |
| :---: | :---: |
| Bus 10A | Practical Bookkeeping** |
| Bus 21ABC | Proficiency-Exit Typewriting* |
| Bus 23 | Office Machines |
| Bus 40 | Grammar and Usas |
| Bus 60 | Principles of Bank Operations |


| Select any two of the following electives |  |
| :---: | :---: |
| Bus 7 | Human Relations in Management |
| Bus 39 | Office Procedures |
| Bus 41 | Essentials of Business Correspondence .. |
| Bus 50 | Intro. to Information Systems |
| Sp 1 | Oral Communication |

*Minimum skill level 40 net words per minute reai... (3) ${ }^{*}$ Minimum skill level 40 net words per minute required to excused from Bus 21B and Bus 21C.
**Bus 1 A will be substituted if student has completed one year of
high school bookkeeping.
***Designed for bank tellers, file clerks, bookkeepers, etc. Not
intended for secretarial staff members.
SECRETARY CERTIFICATE IN BANK SERVICE
Twenty-three to 30 units required for the certificate

| Bus 5A | Business Law ...................... (3) |
| :---: | :---: |
| Bus 21ABC | Proficiency-Exit Typewriting* . . . . (3-3-3) |
| Bus 32AB | Dictation \& Transcription Lab** . . . (3-3) |
| Bus 40 | Grammar and Usage .............. (3) |
| Bus 41 OR | Essentials of Business Correspondence |
| Bus 42 | Business Communications .. (2 or 3) |
| Bus 60 | Principles of Bank Operations ....... (3) |
| Select any two of the following electives |  |
| Bus 7 | Human Relations in Management .... (3) |
| Bus 23 | Office Machines................... . (3) |
| Bus 39 | Office Procedures . . . . . . . . . . . . . . . (3) |
| Bus 50 | Intro. to Information Systems . . . . . . . (3) |
| Sp 1 | ©ral 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 ${ }^{* *}$ Min
${ }^{*}$ Minimum skill level of 90 words per minute required to qualify for certifica
Bus 32B.

BUSINESS
It is highly recommended that WE Gen $70 / \mathrm{WE}$ Occ 80 , WE Gen $71 /$ WE Occ 81 , WE Gen $72 / \mathrm{WE} \mathrm{Occ} 82$, and WE Gen $73 /$ WE Occ
83 experience for the following certificate programs.
Office Technician:
(Receptionist - File Clerk - Small Business Records)
Twenty-four to 30 units required for the certificate

$$
\begin{aligned}
& \begin{array}{ll}
\text { Bus 10A } & \text { Practical Bookkeeping ... } \\
\text { Bus 21ABC }
\end{array} \\
& \begin{array}{ll}
\text { Pus 21ABC } & \text { Proficiency-Exit Typewriting } \\
\text { Bus 22A } & \text { (40 wpm skill level required) }
\end{array} \\
& \begin{array}{ll}
\text { Bus 22A } & \text { Word Processing. } \\
\text { Bus 23 } & \text { Office Machines }
\end{array} \\
& \begin{array}{ll}
\text { Bus 23 } & \text { Office Machines.... } \\
\text { Bus } 24 & \text { Records Managemen }
\end{array} \\
& \begin{array}{l}
\text { Bus } 24 \\
\text { Bus } 39
\end{array} \\
& \begin{array}{l}
\text { Math } 51 \\
\text { Eng } 51 \text { OR }
\end{array} \\
& \begin{array}{l}
\text { Eng } 51 \text { OR } \\
\text { Eng 3B }
\end{array} \\
& \text { Office Procedures.. }
\end{aligned}
$$

Clerk Typist:
Twenty-six to 32 units required for the certificate
Bus 21ABC Proficiency-Exit Typewriting .
(50 wpm skill level required)

| Bus 22A | Word Processing |
| :---: | :---: |
| Bus 23 | Office Machines |
| Bus 24 | Records Management |
| Bus 39 | Office Procedures |
|  | Business Electives |
| Math 51 | Basic Mathematics |
| Eng 51 OR | The Communication Process |
| Eng 3B | Writing Fundamentals |

Secretary Stenographer:
Twenty-six to 36 units required for the certificate

| Bus 21ABC | Proficiency-Exit Typewriting $\ldots \ldots(3 \cdot 3-3)$ (60 wpm skill level required) |
| :---: | :---: |
| Bus 22A | Word Processing . . . . . . . . . . . . . . . (3) |
| Bus 23 | Office Machines . . . . . . . . . . . . . . . . . (3) |
| Bus 24 | Records Management . . . . . . . . . . . . (3) |
| Bus 32AB | Dictation \& Transcription Lab . . . . . . (3-3) ( 90 wpm skill level required) |
| Bus 39 | Office Procedures . . . . . . . . . . . . . . (3) |
| Bus 40 | Grammar and Usage .....]........ (3) |
| Bus 41 OR | Essentials of Bus. Corres |
| Eng 42 | Business Communications .... (2 or 3) |
| Eng 2 B OR Eng 1A | Basic English Composition <br> Reading and Composition |
| Math 51 | Basic Math | Bookkeeper-Technician

Twenty-four to 30 units required for the certificate

| s 10A | Practical Bo |
| :---: | :---: |
| Bus 10B | Practical Bookkeeping ............... (3) |
| Bus 21ABC | Proficiency-Exit Typewriting ....... (3-3-3) ( 40 wpm skill level required) |
| Bus 23 | Office Machines. . . . . . . . . . . . . . . . . (3) |
| Bus 24 | Records Managemen |
| Bus 58 | Microcomputer Operations: <br> Bookkeeping and Accounting $\qquad$ |
|  | Business Electives................. (6) |
| Bus 2 | Intro. to Business (Bus. Elective) ..... (3) |
| Bus 22A | Word Processing (Bus. Elective) ..... (3) |
| M | Basic Mathematics (if required) ...... (3) |
| Eng 51 OR Eng 3B | The Communication Process Writing Fundamentals |

## BUSINESS SUPERVISION

Twenty-one units required for the certificate

| Bus 2 | Introduction to Business . . . . . . . . . . (3) |
| :---: | :---: |
| Bus 3 | Business Management .............. (3) |
| Bus 5A | Business Law .................... (3) |
| Bus 6 | Management Concepts of Supervision. |
| Bus 7 | Human Relations in Management .... (3) |
| Bus 27ABC | Computer Applications ......... (3-3-3) |
| Bus 42 | Business Communications.......... (3) |

Twenty-four units required for the certificate

| Carp 1 | The Apprenticeship and Mathematics. |
| :---: | :---: |
| 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 |

## COSMETOLOGY

Forty-five units required for the certificate

| $\operatorname{Cos} 50 \mathrm{~A}$ | Introduction to Cosmetology ....... (10) |
| :---: | :---: |
| Cos 50B | Introduction to Cosmetology ....... (10) |
| Cos 52A | Intermediate Cosmetology .......... (10) |
| Cos 52B | Intermediate Cosmetology . . . . . . . . . (10) |
| $\operatorname{Cos} 54 \mathrm{~A}$ | Advanced Cosmetology . . . . . . . . . . (5) |

## CROP SCIENCE

Twenty-seven units required for the certificat
I. Required courses for the certificate

| Ag 14 | Entomology ....................... (3) |
| :---: | :---: |
| Ag 15 | Pesticide Safety . . . . . . . . . . . . . . . . (1) |
| Ag 40 | Soils............................. (3) |
| Ag 41 | Fertilizers . . . . . . . . . . . . . . . . . . (3) |
| Ag 42 | Introduction to Crop Science . . . . . . . (4) |
| Ag 43 | Field and Cereal Crops ............. (4) |
| Ag 45 | Vegetable Production . . . . . . . . . . . . . (3) |
| Ag 49 | Weeds and Weed Control........... (3) |
| Select one course from the following: |  |
| Aget 28 | Power Equipment Operation and Maintenance. $\qquad$ |
| Aget 50 | Applied Mathematics .............. (3) |
| Ag 30 | Food \& Fiber in a Changing World ... (3) |
| Ag 32 | Irrigation and Drainage ............. (3) |

Required courses for the certificate

| Bus 10A | Practical Bookkeeping $\ldots \ldots \ldots \ldots \ldots$ (3) |
| :--- | :--- |
| Bus 10B | Practical Bookkeeping $\ldots \ldots \ldots \ldots \ldots$ (3) |
| Bus 50 | Intro. to Information System...... (3) |
| Bus 52 | Programming in Cobol $1 \ldots \ldots \ldots \ldots$. (3) |
| Bus 57 | Programming in Basic $\ldots \ldots \ldots \ldots$ (3) |

II. Acceptable courses for the certificate (minimum of 3 units
o be selected from the following)


Principles of Accounting
Principles of Accounting
Programming in Cobol II
Data Processing Systems
Computer Applications
Computer Anplications Lab
Microcomputer Microcomputer Operations:
Bookkeeping and Accur

Bookkeeping and Accounting ...... (3)
Even though they do not fulfill requirements for the certificate,
it is highly recommended that WE Gen 70/WE Occ 80 , WE Gen it is highly recommended that WE Gen 70/WE Occ 80, WE Gen
$71 /$ WE Occ 81 , WE Gen 72/WE Occ 82, and WE Gen 73/WEOcc 83 be completed to provide expanded experience for the certificate.

## EARLY CHILDHOOD EDUCATION

Fifteen units required for the certificate
ECE/Psych 20 Developmental Psychology of
ECE/Psych 21 Early Childhood Socialization: Children (3)
ECE/Psych 22 Family and Community ...........
ECE 23 Early Childhoodion Curriculum I.............

Early Childhood Education certificate students can apply for th Emergency Children's Center Permit upon completion of th certificate. This requires an employer statement that no Regul for the Emergency Children's Center Permit can be made throug the credentialing office at Imperial County Office of Educatio
through California Teacher Preparation and Licensing, Stat Department of Education.

## ELECTRONICS

Fourteen units required for the certificate
Electronics 1A Basic Electronics
Electronics 1B Electronics Assembly \& Fabrication $\begin{array}{ll}\text { Electronics } 5 & \text { Pransistors \& Semi-Conductors ....... } \\ \text { Practical Digital Electronics........ }\end{array}$

EMERGENCY MEDICAL TECHNICIAN I
Five and one-half units required for the certificate
EMT 1/A/AD Emergency Medical Technician 1/

## EMERGENCY MEDICAL TECHNICIAN I

## Twelve units required for the certificate

## EMT 2A Emergency Medical Technician 2A

## FIRE SCIENCE

Eighteen to 21 units required for the certificate
$\begin{array}{ll}\text { Fire Sci } 60 & \text { Introduction to Fire Technology....... (3) } \\ \text { Fire } \\ \text { Fsi } 61 & \text { Fundamentals of Fire Prevention }\end{array}$ $\begin{array}{ll}\text { Fire Sci } 61 & \text { Fundamentals of Fire Preve } \\ \text { Fire Sci } 62 & \text { Fire Protection Equipment }\end{array}$ Fire Sci 63 Fundamentals....................... Fire Behavior Fire Sci 64
Fire Sci 65
Fundamentals of Fire Protection .. Math 51 and Emergency Action.

GOVERNMENTAL MANAGEMENT
Twenty-one to 23 units required for the certificate

| Bus 8 | Personnel Management |
| :---: | :---: |
| Bus 70 | Fundamentals of Governmental Management |
| Bus 71 | State and Local Government |
| Bus 72 | Finance Managemen |
| Select any three of the following courses |  |
| s 6 | Management Concepts in Supervision. |
| ¢ 7 | Human Relations |
| us 50 | Intro. to Information Syst |
| WE Occ 82 ORLabor and the Economy WE Occ 83 Laws Affecting Employees |  |

Eleven units required for the certificate

| GA 10 | Graphic Communications I . . . . . . . . (2) |
| :---: | :---: |
| GA 11 | Graphic Communications II ......... (3) |
| GA 12 | Composition, Layout \& Paste-up..... (3) |
| GA 20 OR | Offset Printing I |

> GRAPHIC ARTS - PRINTING

Eleven units required for the certificate

| GA 20 | Offset Printing I . . . . . . . . . . . . . . . . (3) |
| :---: | :---: |
| GA 21 | Offset Printing II . . . . . . . . . . . . . . . (3) |
| GA 22 | Photography and Platemaking ....... (3) |
| GA 23 | Bindery, Cutting \& Distribution . . . . . (2) |

HEALTH ASSISTANT
Six units required for the certificate
HA 15 Health Assistant
home health aide
Six units required for the certificate
HA 16 Home Health Aide
hUMAN RELATIONS
Areas of emphasis: Community Mental Health Worker, Counsel ing, School, Social Services, Personnel, Employment Counseling

Twenty-four units required for the certificate
I. Required courses ipr the certificate

II. With the approval of his/her counselor and the Divisio Chairperson, the student will select a minimum of 9 units (depending on areas of emphasis) from the following courses.
It is considered advisable for students in certain areas emphasis to take more than 9 units from the list below.
$\begin{array}{ll}\text { Anthro } 2 & \text { Cultural Anthropology } \ldots \ldots \ldots \ldots \text { (3) } \\ \text { Bus } 6 & \text { Management Concepts of }\end{array}$
$\begin{array}{ll}\text { Bus } 7 & \text { Supervision............................. } \\ \text { Human Relations in Manageme }\end{array}$
Bus 50
Bus 79
HR/Psych 8
HR/Psych 10
Jrn 3
Psych 1B
$\begin{array}{ll}\text { Psych 1B } & \text { Learning and Perception .............. } \\ \begin{array}{ll}\text { Psych 2 } & \text { Intro. to Physiological Psychology ... } \\ \text { Psy }\end{array} & \end{array}$
$\begin{array}{ll}\text { Psyyh } 5 & \text { ntro. to Physiological Psychology } \\ \text { Psych } \\ \text { Psychology of Effective Behavior }\end{array}$
Psych 13 Elementary Statistics
$\begin{array}{ll}\text { Psych } 14 & \text { Abnormal Psychology.......................... } \\ \text { Psych } 15 & \text { Social and Psychological Dynamics }\end{array}$
Psych/HR $16 \begin{gathered}\text { of Drug Use . . . ................. } \\ \text { The Psychology of Interpersonal } \\ \text { Restal }\end{gathered}$
Psych 17 Relationships

Developmental Psychology of Children
tal Psychol sych 35 Developmental Psychology
Psych $40 \quad \begin{gathered}\text { Conceptian to Death....... }\end{gathered}$. Sociol $2 \quad \begin{aligned} & \text { Psychology of Crisis Counseling ...... } \\ & \text { Contemporary Social Problems }\end{aligned}$

LEGAL ASSISTANT
Twenty-one units required for the certificate


BASIC LIBRARY TECHNICIAN
Fifteen units required for the certificate


## MARKETING-SALES TECHNOLOGY

Eighteen units required for the certificate

| Bus 2 | Introduction to Bu |
| :---: | :---: |
| Bus 4 | Principles of Marketing |
| Bus 13 | Applied Business Law |
| Bus 14 | Practical Salesmanship |
| Six units to be selected from the following courses |  |
| Bus 1A | Principles of Accoun |
| Bus 10A | Practical Bookkeeping |
| Bus 21ABC | Proficiency-Exit Typewritin |
| Bus 23 | Office Machines |
| Bus 65 | Retail Sales Che |
| Bus 66 | Effec |
| Econ 1 | Principles of Economic |

NUTRITION MANAGEMENT - DIETARY MANAGER
Courses required for a Certificate of Achievement by the State of California, Department of Health Services, Licensing and Cer tification Division. Students must achieve a minimum grade of
" C " in each of the required courses
I. Required core courses for the certificate

| NU 1 | Sanitation and Safety Control........ (3) |
| :--- | :--- |
| NU 2 | Foundations of Nutrition........... (3) |
| NU 3 | Food Production Management $\ldots \ldots$. (3) |
| NU 4 | Supervision for Food Services $\ldots \ldots .$. |

Additional required courses


## SCHOOL FOOD SERVICES MANAGER

Courses required for a Certificate of Achievement by the State of California, Department of Health Services, Licensing and Cer" C " in in eachision. Students must achieve a minimum grade

解 required courses.


PT 4 Developmental Disabilities for the Psych Tech........
Mental Disorders for the Psych Tech......... ...(12.5) $\begin{array}{ll}\text { Psych 1A } \\ \text { Psych } 35 & \text { Introduction to Psychology ............ (3) } \\ \text { Developmental Psychology: }\end{array}$ Developmental Psychology:
Conception to Death .............(3)

## REAL ESTATE

Upon the satisfactory completion of the folliowing courses, the student will be e eigible for the Caliifornia Junior College Real Estate
Certificate which is issued in cooperation Certificate which is issued in cooperation with the California Division of Real Estate and the California Real Estate Association Twenty-ir

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

Twenty-nine to 36 units required for the certificate
I. Required courses for the certificate

| Bus 21ABC | Proficiency-Exit Typewriting ...... (3-3-3) ( 55 wpm skill level required) |
| :---: | :---: |
| Bus 22A | Word Processing . . . . . . . . . . . . . . . (3) |
| Bus 22B | Word Processing . . . . . . . . . . . . . . ${ }^{\text {(3) }}$ |
| Bus 23 | Office Machines................... (3) |
| Bus 39 | Office Procedures . . . . . . . . . . . . . . . (3) |
| Bus 40 | Grammar and Usage .............. (3) |
| Bus 41 OR Bus 42 | Essen. of Business Corres. Business Communications |
| Bus 50 | Intro. to Information Systems . . . . . . . (3) |
| Eng 2B | Basic English Composition .......... (3) |
| Math 51 | Basic Mathematics (if required) ...... (3) |

PATIENT SERVICES ADMINISTRATION SPECIALIST
Seventeen units required for the certificate


PHARMACY TECHNICIAN
Fifteen units required for the certificate
$\begin{array}{ll}\text { HT } 3 & \text { Medical Terminology } \ldots \ldots \ldots \ldots . . \text { (3) } \\ \text { HT } 12 & \text { Pharmacy Technician I................6) } \\ \text { HT 13 } & \text { Pharmacy Technician II .............(6) }\end{array}$

## PSYCHIATRIC TECHNICIAN

Fifty and one-half units required for the certificate
Anat $6 \quad \begin{gathered}\text { Anatomy and Physiology for } \\ \text { Health Occupations...... }\end{gathered}$
NS $1 C$
NS $2 C$

| Anatomy and Physiology for |  |
| :---: | :---: |
|  |  |
| Pharmacology I | 5) |
| Pharmacology II |  |
| Intro. to Nursing Science for the |  |
| Psych Tech ............ | (3.5) |
| Fundamentals of Nursing for the |  |
| Psych Tech |  |
| Medical-Surgical Nursing for the |  |
|  |  |

II. A minimum of six units must be taken from Section II

PL 2AB Practicum Experience to Work with
PL 10 Beginning Communication with .....(2-2)

PL 20 Lte Deaf

III. Additional units to complete the certificate may be utilized from the courses under Section
$\begin{array}{ll}\text { PE 62AB } & \text { PE for Special Olympics } \\ \text { PL } 12 & \text { Advanced Commict }\end{array}$
PL 13ABCD
Psych 3
Psych 9
Psych
the Deaf
Communication with the Deaf in the
College Classroom
Psychology of Adjust.
Psychology of Adjustment
Introduction to Counseling (-1-1-1)

Psych 17
2
Social Psychology .......
Children
Recreation for Special Group
Principles of
Contemporary Sociocial Problems
TEACHER AIDE
Twenty-one units required for the certificate
TA 1 Intro. to Instructional Associate AA/ECE 4 Psychology of Adjustment... A/ECE 4 Bilingual-Multicultural Curriculum TA/ECE 6 Lànguage Develo

TA/ECE TA 9 /Ps

$$
\begin{aligned}
& \text { Manhidren } \\
& \text { Field Extics for Young Children. }
\end{aligned}
$$

## VOCATIONAL NURSING

Forty-nine and one-half units required for the certificate

| HT 1 | Introduction to Health |
| :---: | :---: |
| Anat 6 | Anatomy and Physiology for |
|  | Health Occupations ..... |
| Psych 1A | Introduction to Psychology |
| Psych 16 | The Psychology of Interper |
|  | Relationships |
| Psych 35 | Developmental Psychology: |
|  | Conception to Death ............ (3) |
|  | Introduction to Patient Care I........ (4) |
| NS 1C (V) | Introduction to Patient Care II ....... (4) |
| NS 2A (V) | Maternity Cycle ................... (1.5) |
| NS 2B (V) | Common Heaith Probiems i . . . |
| NS 2 C (V) | Pharmacology II.................... (1.5) |
| NS 3A (V) | Common Health Problems II ........ (6.5) |
| NS 3B (V) | Common Health Problems III $\ldots$. . 6.5 (6) |
| NS 3C (V) | Patient Care Managem |

$$
\begin{array}{ll}
\text { ifteen units required for the certificate } \\
\text { WT 6 } & \text { Computational Procedures for } \\
\text { WT 9 } & \text { Treatment Plant Operator I } \\
\text { Waste Water Treatment I.... } \\
\text { WT 10 } & \text { Waste Water Treatment II } \ldots \\
\text { WT 11 } & \text { Waste Water Treatment III ... }
\end{array}
$$

## WATER TREATMENT TECHNOLOGY

Fitteen units required for the certificate
 WELDING
One of the following four patterns of study will fulfill requirement
for a certificate in Welding for a certificate in Welding Technology.
Pattern One
Recommended for Agriculture and Agricultural Services)
wenty to 21 units required for the Pattern One certificate
$\begin{array}{ll}\text { Weld } 31 \text { OR } & \text { Basic Welding } \\ \text { Weld } 31 \mathrm{~A} \text { \& } & \text { Oxy-Acetyen }\end{array}$

Weld 36A Advanced Welding........
AE 20 OR
Alcohol Fuel Production
$\begin{array}{ll}\text { Weld } 38 & \text { Alcohol Fuel Production } \\ \text { Sheet Metal Fundamentals }\end{array}$

$$
\begin{aligned}
& \text { Eight units selected from agriculture courses. } \\
& \text { ttern Two }
\end{aligned}
$$

Pattern Two
(Recommended for air-conditioning mechanics and construction
personnel)
$\left.\begin{array}{ll}\text { Weld } 36 \mathrm{~A} & \text { Advanced Welding } \ldots \ldots \ldots \ldots \\ \text { Weld } 36 \mathrm{~B} & \text { Advanced Welding } \ldots \ldots . . . \\ \text { AE } 10 \text { OR } & \text { Prac. Methods in Solar Energy } \\ \text { Weld } 38 & \text { Sheet Metal Fundamentals }\end{array}\right]$


## ${ }^{\text {Ag }} 38$

Pattern Three
(Recommended for industries)
Twenty-one units required for the Pattern Three certificate

$$
\begin{array}{ll}
\text { Weld } 31 \text { OR } & \text { Basic Weldin } \\
\text { Weld 31A \& } & \text { Oxu-Acctuly }
\end{array}
$$

$$
\begin{array}{ll}
\text { Weld 31 OR } & \text { Basic Welding } \\
\text { Weld 31A \& } & \text { Oxy-Acetylene Welding } \\
\text { Weld 31B } & \text { Arc Welding }
\end{array}
$$

$$
\begin{array}{ll}
\text { Weld 36A } & \text { Arc Welding } \\
\text { Auto Tech } 65 & \text { Basiced Wachine Ming. } \\
\text { Aught } \\
\text { Eight }
\end{array}
$$



Eight units selected from agriculture Technology ....... (3) technology courses
Pattern Four

## Pattern Four

vance his/her general capabilities in welder who wishes to ad processes)

$$
\begin{aligned}
& \text { Sixteen to } 19 \text { units required for the Pattern Four certificate } \\
& \text { Wold } 268
\end{aligned}
$$

| Weld 36B | A |
| :---: | :---: |
| Weld 36 | Advanced Welding : |
| AE 20 OR | 硡 |



OCCUPATIONAL WORK EXPERIENCE
Twenty-eight units required for the certificate
WE Occ 80 Personal Efficiency WE Occ 82 Motivation

$$
\begin{aligned}
& \text { Labor and the Economy } \\
& \text { Laws Affecting Emplovee }
\end{aligned}
$$

WE Occ 83 Laws Affecting Employy
Twelve units from the student's planned course of occu tion training as approved by the Dean of Vocational-Technical Educa:
tion.



| Proficiency Enrollment................................. 20 |  |
| :---: | :---: |
| Program |  |
| Changes . | 19 |
| Cooperative Work Experience. | 15 |
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| High School Students |  |
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| Transfer |  |
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| R |  |
| Recreation | 83 |
| Refund Policy |  |
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| Requirements, State Competency | 23 |
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| Scholastic Probation | 21 |
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| Study List Changes | 9 |
| Study List Limitations | 19 |
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|  |  |

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Imperial Valley College


10 Administration
${ }_{200}^{100}$ Counseling Center 300 Fine Arts
400 Natural Science
 900 Meyer Center

1000 Student Life
1100 Auto Tech 1100 Auto Tech 1200 Welding
1300 Agriculture 1400 Maintenance

500 Library/Media Center 1600 Modular Building 100 Health Sciences PS Preschool


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