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

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLLEGE CALENDAR</td>
<td>4</td>
</tr>
<tr>
<td>PERSONNEL</td>
<td>6</td>
</tr>
<tr>
<td>Board of Trustees, Administration</td>
<td>6</td>
</tr>
<tr>
<td>Division Chairpersons, Director</td>
<td>7</td>
</tr>
<tr>
<td>Faculty</td>
<td>8</td>
</tr>
<tr>
<td>Emeritus Faculty</td>
<td>12</td>
</tr>
<tr>
<td>GENERAL INFORMATION</td>
<td>13</td>
</tr>
<tr>
<td>Location, History, Facilities, Library</td>
<td>13</td>
</tr>
<tr>
<td>Mission and Goals</td>
<td>14</td>
</tr>
<tr>
<td>Types of Courses and Programs</td>
<td>15</td>
</tr>
<tr>
<td>Evening College, External Campus</td>
<td>15</td>
</tr>
<tr>
<td>Work Experience Program</td>
<td>16</td>
</tr>
<tr>
<td>Honors Program for High School Students</td>
<td>16</td>
</tr>
<tr>
<td>Disabled Student Programs and Services</td>
<td>16</td>
</tr>
<tr>
<td>Degrees</td>
<td>16</td>
</tr>
<tr>
<td>Scholastic Honors</td>
<td>17</td>
</tr>
<tr>
<td>Financial Assistance, Expenses</td>
<td>17</td>
</tr>
<tr>
<td>Refund Policy, Parking Permit, Accreditation</td>
<td>18</td>
</tr>
<tr>
<td>Counseling Services, Student Activities</td>
<td>18</td>
</tr>
<tr>
<td>Bookstore, Snack Bar, College Center, Athletics</td>
<td>18</td>
</tr>
<tr>
<td>Learning Supportive Services</td>
<td>18</td>
</tr>
<tr>
<td>REGULATIONS</td>
<td>19</td>
</tr>
<tr>
<td>Admission, Transcripts</td>
<td>19</td>
</tr>
<tr>
<td>Family Educational Rights &amp; Privacy Act</td>
<td>19</td>
</tr>
<tr>
<td>Affirmative Action Policy</td>
<td>19</td>
</tr>
<tr>
<td>Nondiscrimination Policy</td>
<td>19</td>
</tr>
<tr>
<td>Residence Requirements</td>
<td>19</td>
</tr>
<tr>
<td>Study List Limitations</td>
<td>21</td>
</tr>
<tr>
<td>Short Term Classes</td>
<td>21</td>
</tr>
<tr>
<td>Changes in Class Schedules</td>
<td>21</td>
</tr>
<tr>
<td>Scholarship Grading System</td>
<td>21</td>
</tr>
<tr>
<td>Semester Grade Reports</td>
<td>23</td>
</tr>
<tr>
<td>Student Conduct</td>
<td>23</td>
</tr>
<tr>
<td>Campus Regulations</td>
<td>23</td>
</tr>
<tr>
<td>Academic Probation</td>
<td>23</td>
</tr>
<tr>
<td>Provisional Status</td>
<td>23</td>
</tr>
<tr>
<td>Petition and Hearing Process</td>
<td>23</td>
</tr>
<tr>
<td>Attendance and Automatic Withdrawals</td>
<td>24</td>
</tr>
<tr>
<td>Withdrawal from College</td>
<td>24</td>
</tr>
<tr>
<td>Academic Dismissal</td>
<td>24</td>
</tr>
<tr>
<td>Eligibility and Certification of Veteran Enrollment</td>
<td>24</td>
</tr>
<tr>
<td>Physical Education</td>
<td>24</td>
</tr>
<tr>
<td>Changes in the Catalog</td>
<td>25</td>
</tr>
<tr>
<td>GRADUATION REQUIREMENTS</td>
<td>25</td>
</tr>
<tr>
<td>CREDIT FOR CORRESPONDENCE AND EXTENSION COURSES</td>
<td>27</td>
</tr>
<tr>
<td>TRANSFER REQUIREMENTS</td>
<td>27</td>
</tr>
<tr>
<td>INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM</td>
<td>29</td>
</tr>
<tr>
<td>OCCUPATIONAL CURRICULA</td>
<td>29</td>
</tr>
<tr>
<td>COURSES OF INSTRUCTION</td>
<td>30</td>
</tr>
<tr>
<td>MAJORS</td>
<td>84</td>
</tr>
<tr>
<td>TEACHER PREPARATION</td>
<td>98</td>
</tr>
<tr>
<td>CERTIFICATE PROGRAMS</td>
<td>99</td>
</tr>
<tr>
<td>INDEX</td>
<td>107</td>
</tr>
</tbody>
</table>
IMPERIAL VALLEY COLLEGE
1991 - 1992 SCHOOL CALENDAR

1991

August
23 Friday Faculty Service Day (Orientation)
26 Monday Fall Semester Classes Begin

September
2 Monday Holiday (Labor Day)

November
11 Monday Holiday (Veteran's Day)
28 Thursday Recess (Thanksgiving)
29 Friday Recess (Thanksgiving)

December
16 Monday Final Exams Begin
20 Friday Last Day of Final Exams
23 Monday Recess (Christmas)

1992

January
3 Friday Last Day of Recess (Christmas)
6-10 Monday-Friday Instructional Flex Days (No Classes)
13 Monday Spring Semester Classes Begin
20 Monday Holiday (King's Birthday)

February
14 Friday Holiday (Lincoln's Birthday)
17 Monday Holiday (Washington's Birthday)

April
15 Wednesday Instructional Flex Day (No Classes)
16 Thursday Recess (Spring)
17 Friday Holiday (Good Friday)
24 Friday Last Day of Recess (Spring)

May
18 Monday Final Exams Begin
22 Friday Last Day of Final Exams
25 Monday Holiday (Memorial Day)
26-29 Tuesday-Friday Instructional Flex Days (No Classes)
30 Saturday Graduation Day

IMPERIAL VALLEY COLLEGE
DEADLINE DATES

FALL SEMESTER 1991

August 25 Sunday Residence Determination Date, Fall Semester 1991
August 26 Monday First Day of Classes
August 30 Friday Last Day to Add or Register
September 9 Monday Last Day to Apply for Graduation and Certificates
September 20 Friday Last Day to Remove Incompletes for Spring 1991 and Summer 1991 (end of the 6th week)
October 4 Friday Last Day to Drop with a "W" Grade
October 28 Monday Second Census Day
November 22 Friday Last Day of Fall Semester 1991
December 16-20 Monday-Friday Final Examinations
December 20 Friday Last Day of Fall Semester 1991

SPRING SEMESTER 1992

January 12 Sunday Residence Determination Date, Spring Semester 1992
January 13 Monday First Day of Classes
January 17 Friday Last Day to Add or Register
January 27 Monday First Census Day
February 7 Friday Last Day to Apply for Graduation and Certificates
February 21 Friday Last Day to Remove Incompletes for Fall 1991 (end of the 6th week)
March 16 Monday Second Census Day
April 10 Friday Last Day to Drop with a "W" Grade
May 18-22 Monday-Friday Final Examinations
May 30 Saturday Graduation Day
THE BOARD OF TRUSTEES
IMPERIAL COMMUNITY COLLEGE DISTRICT

MR. RUDY CARDENAS, JR.
Trustee from area which includes Brawley Union High School District

MR. MILTON W. CARR
Trustee from area which includes Calipatria Unified High School District

MRS. CLAUDINE DUFF
Trustee from area which includes Central Union High School District

MR. E. J. MELLINGER
Trustee from area which includes Holtville Unified School District

MR. ROBERT NOBLE
Trustee from area which includes Calexico Unified School District

MR. JOHN LEMON
Trustee from area which includes San Pasqual Unified School District

MR. HOWARD WORTHINGTON
Trustee from area which includes Imperial Unified School District

ADMINISTRATION

DR. JOHN A. DePAOLI, JR.
Superintendent/President

MR. WILLIAM SECHRIST
Vice President for Business Services

DR. HECTOR LOPEZ
Vice President for Counseling & Student Services

DR. JAMES D. WALKER
Vice President for Academic Services/Deputy Superintendent

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Dean of Learning Services

MR. RUBEN LOPEZ
Dean of External Campus

MR. WILLIAM RUDOLPH
Dean of Vocational-Tech Education

MRS. SANDRA STANDIFORD
Dean/Admissions/Student Activities

MR. VICTOR JAIME
Director of Financial Assistance and State Programs

MS. BETTY MARKS
Director of Nursing Education and Health Technologies

MR. MEL WENDRICK
Director of Disabled Student Programs and Services

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Chairperson of Division of Agriculture & Automotive Technology

MRS. MARY KAY BORCHARD
Chairperson of Division of Behavioral Sciences

MR. WILLIAM GRIFFIN
Chairperson of Division of Business

DR. FRED FISCHER
Chairperson of Division of English

DR. MAX FIELDS
Chairperson of Division of Health, Physical Education and Recreation

MRS. CAROLYN FORDEN
Chairperson of Division of Humanities

MS. BETTY MARKS
Chairperson of Division of Nursing Education & Health Technologies

MR. JIMMY PENDLEY
Chairperson of Division of Science, Mathematics and Engineering

MR. RICHARD HANN
Chairperson of Division of Social Science

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Director of Consumer Education and Family Studies

MR. DARRYL CROFT
Director of Personnel Services/Affirmative Action Officer
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M.A., Michigan State University

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M.S., Columbia University

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M.Ed., Southwest Texas State University

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B.A., San Diego State University
M.S., National University

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M.F.A., Catholic Univ. of America, Washington, D.C.

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M.S., West Virginia University

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M.A., San Francisco State University

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M.A., Boston University

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THE COLLEGE

LOCATION

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

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

HISTORY OF IMPERIAL VALLEY COLLEGE

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

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

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

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

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

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

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

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

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 Superintendents of Schools then set a date for an election at which all qualified voters residing within the boundaries of the seven high school and unified school districts were eligible to vote. The election was held on October 6, 1959, and by an overwhelming vote of twelve to one, the Imperial Valley Junior College District was established. This was followed by the election of the members of the Junior College District Board of Trustees, one of whom comes from each of the seven high school or unified school districts represented in the area served by the Imperial Junior College District.

This District includes all of Imperial County except a small area in the northeastern corner of the County which is a part of the Coachella Valley Community College District.

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

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

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

On January 13, 1971, the Board of Trustees changed the name of the District to Imperial Valley College District in order to further emphasize the close relationship the college has with its service area.

On October 29, 1961, an impressive ground-breaking service was held for the new campus. Board members manned giant earth-moving equipment to break ground for the project. The new buildings 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 agricultural education classroom and shop. The new campus opened in 1962.

A steady growth pattern began in April of 1967 with the addition of the multipurpose 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 Bolville 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 architectural museum at 442 Main Street in El Centro in buildings donated by R. P. Meyer and the new agriculture-welding complex. The museum was later named the Barker Museum, honoring Michael Barker, deceased. Mr. Barker was an IVC architecture instructor.

Other building projects which followed were: Associated Students Activities Building, 1972; 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 on Highway 111 on a section of the campus named Rider Park. It has been closed.

Mr. Rider served as the first custodian and maintenance supervisor at the new campus in 1961. Additionally, a modern dormitory to remove architectural barriers to the handicapped was completed in 1982.

On September 17, 1982, ceremonies were held to commemo­rate the 20th anniversary of the beginning of class instruction. From less than one thousand students a year in the early sixties, the college now enrolls approximately five thousand students each year.

In 1987, the college celebrated its 25th anniversary at its 25th anniversary celebration ceremonies and programs relating to the signing of the U.S. Constitution two hundred years ago.

A 2.5 million dollar General Obligation Bond for IVCC was approved by 73% of the voters in November, 1987. The money developed by the Bond have allowed the college to do major campus refurbishing and other general improvements such as: Constructing and opening the Health Technologies Building in 1988; more than doubling the number of parking spaces; improving campus lighting; opening an off-campus center in El Centro for the External. Campus, which includes housing in women's softball field; rejuvinating classroom, the library, the college center, the counseling center, the print shop; designing the size of the Meyer Center for Business and Commerce; and computerizing the energy control system.

With the completion of construction for the Childhood Education Center in October 1989, the college is preparing to provide higher educational opportunities for the increasing number of students both on and off campus.

MISSION AND GOALS

The urban isolation experienced by Imperial Valley College has created the opportunity for the institutions to become a leader in establishing a wide range of educational, services, and innovations.

In view of this privileged role, the over-riding mission of Imperial Valley College is to serve the needs of students today and in the future. We are both a leader for new ideas and a servant fulfilling the population's needs.

Our offerings must reflect community interests and also present new ideas that will be of significance in the years ahead.

To fulfill this mission, we must know our constituency well. It is a unique one with highly diverse interests and educational backgrounds. The area is predominantly agricultural with a large minority population, and statistically, it is a low economic sector with Imperial Valley College providing the best opportunity for advanced education and training for many of the residents.

As an educational institution, our primary responsibil­ity is to offer high quality instruction with open access to all adults. Through our offerings, Imperial Valley College seeks to enrich the lives of our students, their families, and our commu­nities. It is the primary cultural, social, and economic goal. We must be sensitive to the individual and to his/her needs, with the belief that educated people build a strong community.

Our offerings must extend outside of the classroom. Through counseling, special programs, presentations and services, Imperial Valley College strives to contribute to the needs of as many citizens of Imperial County as possible.

The goals for Imperial Valley College are as follows:

1. Provide quality teaching that is responsive and sensitive to the individuals served through the intervention of personal, professional, and community 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 to equip the student with marketable skills and to allow members of the work force to upgrade their skills.

3. Develop a well-rounded formal and academic program. Imperial Valley College offers the Associate of Arts or Associate of Science degree program comparable to that offered by colleges throughout the United States.

4. Provide enrichment and special interest programs. Education offers means to expand horizons and grow intellectually and spiritually. These special offerings may form part of a program or be ends in themselves.

5. Provide integrated support services for educational programs and student activities. Successful education is more than time in a classroom; it is an integrated experience.

6. Provide services to the community at large. As a leading educational institution, Imperial Valley College recognizes a responsibility to go beyond the campus and the community.

7. Maintain high standards through assessment, development, and accountability. The commitment to excellence is an ongoing process. To fulfill its many responsibilities, our college is committed to remain with its community and dedicated to improving its services.

8. Prepare students to make contributions, through knowledge, to the quality of life in the Imperial Valley. Education creates opportunities and makes choices possible. Improvement of self-concept heights respect for others and for the environment. Ultimately, it builds a solid community, a strong nation, and a healthy world.

In order that Imperial Valley College may achieve its goal of serving all students who desire to learn, a variety of options 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. Courses are provided to enable the college to offer the basis for professional training offered by four-year colleges and universities.

Regardless of the interests of the students, the first two years of college work normally can be completed at Imperial Valley College. Thus students have an opportu­nity to begin their academic education while still residing at home. Not only can the student experience the 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 suburban-like, campus of the college: the opportunity for each student to know instructors personally; and the chance to participate in the counseling system offer invaluable opportunities to the student that might not be available in an institution where the size of enrollment makes personal interest in every student difficult. Not only can the student receive excellent personal assistance, but the college's size for leadership in student affairs are increased.

Through the counseling program, a close scrutiny is given to the courses in which a student enrolls. The student plans ahead, sets up goals and systematically includes those courses that will be of the greatest benefit.

Many of the needs of the student who seeks employment at the end of the sophomore year can be met by a variety of occupational, career-related offering breadth of education, they meet specific needs in the shortest period of time to prepare the student for a field of employment.

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

The community college program also includes courses of study which may be taken by adults who can demonstrate their ability to do college work but who have not had the opportunity to attend a high school. Evidence of success in classes of college level will permit these adults to continue their educational endeavors.

Coordinated with the general divisions of courses at the college are five programs designed with specific types of students in mind: students who can devote only evenings to school; students who cannot fully partici­pate in regular classes on the main campus; students who can coordinate their college study with a program of employment; the outstanding high school, 11th and 12th grade 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 that meet at night, offers an opportunity to work for a certificate or Associate in Science degree, to complete regular lower-division work in a year, to make up any high school deficiencies, or to take additional classes of interest that will add to general education.

Although evening college programs require more time to complete than the day programs, students find that with adequate planning and the assistance of a counselor, they can still complete programs 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. As an extension of the region, the college offers credit in all communities at approximately 98 locations. The network of centers throughout the district provides daytime and evening classes staffed by part-time faculty, members of the main campus faculty, and one coordinator.

The goal of the off-campus program is to offer expanded delivery capability, flexibility, and quality instruction to the 14 communities comprising the College District. The external center offers flexibility to the student that might not be available in an institution where the size of enrollment makes personal interest in every student difficult. Not only can the student receive excellent personal assistance, but the college's size for leadership in student affairs are increased.

Through the counseling program, a close scrutiny is given to the courses in which a student enrolls. The student plans ahead, sets up goals and systematically includes those courses that will be of the greatest benefit.

Many of the needs of the student who seeks employment at the end of the sophomore year can be met by a variety of occupational, career-related offerings. Breadth of education, they meet specific needs in the shortest period of time to prepare the student for a field of employment.
Admission of Pupil who has Completed 11th Grade to Summer Sessions: Creditng Summer Session Attendance

The president of any two-year community college may admit to the summer session of the community college as a special pupil, for credit or no credit, any high school student who has completed 11th grade and whose application is recommended by the principal of the high school in which the student completed the 11th grade. A principal of a high school may not recommend such a student as a special student pursuant to rules and regulations which may be adopted by the governing board of the district maintaining the high school. A principal of a high school shall not recommend a number of students for any summer school in excess of 5 percent of the total number of students in the high school 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 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. 76002)

5. Disabled Student Programs and Services

The Disabled Student Programs and Services program is designed to provide supportive 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 assistance.

6. Imperial Valley College Developmental Preschool

The preschool is open five days a week from 7:45 a.m. to 3:15 p.m., concurrent with the college calendar. Child care services are available for preschool children 2 through 5 years of age whose parents are IVCC students.

GRADUATION HONORS

Graduation Honors

"With distinction" is accorded those graduates who in the course of their entire college work have achieved a grade point average of 3.0 in their work.

"With honors" is granted to those graduates who achieve a grade point ratio of 3.0 in their college work.

President's Honor List

The president of the college gives special recognition to top scholars each semester by publishing a list of students whose grades for the previous semester show a 3.0 average or better in twelve or more units of work.

Alpha Gamma Sigma

Initial Membership: A person may attain initial membership if the person has:

1. Completed 12 units in a maximum of 3 semesters.
2. A cumulative grade point average of 3.25. No units acquired more than two years prior to application for initial membership shall be used.

Continuing Membership: An initial member may attain continuing membership by:

1. Achieving for the previous semester not less than 3.25 GPA in courses of recognized college standing,
2. 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 enrollment continuing membership. If the continuing member's GPA falls 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 more than two consecutive grace periods.

Permanent Members: Any person who has completed a minimum of 60 units of recognized college with a minimum of 30 units completed at a community college who applies for permanent membership and who meets either of the following requirements:

1. A person who has maintained a cumulative grade point ratio of 3.5 or above in all recognized college work,
2. Any continuing member who has maintained a cumulative GPA of 3.25 or better in all recognized college work and has been a member of AGS, Inc., for a minimum of two semesters.

Any courses completed two years prior to application for 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 college district, the state and federal governments, civic groups, and individual citizens.

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

Further information regarding financial assistance may be secured from the Financial Assistance Office located in the Counseling Center.

EXPLANATION OF FEES

The Enrollment Fee mandated by the California State Legislature, with the approval of the Governor, requires all California Community Colleges to charge students an Enrollment Fee each semester. The legislature has also provided for financial assistance and fee waivers for low-income students who cannot afford to pay this fee and who qualify according to State guidelines. Information for financial assistance and fee waivers can be obtained from the Financial Assistance Office.

The Parking Fee provides administrative and operating funds for parking and transportation-related facilities.

TUITION

Nonresident and international students are required to pay tuition charges of $100.00 per unit in addition to the fees outlined above.

The college will accept payment from nonresident and international students in cash, Western Union money orders, traveler's checks, and bank drafts. Personal checks cannot be accepted. Payment of nonresident and international student tuition cannot be deferred.

OTHER FEES/CHARGES

Konsufficient Funds Check Charge

There will be a charge of $10.00 for checks returned to the college because of insufficient funds.
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 class

A student refund request form must be completed and filed prior to the last day of late registration in order to receive reimbursement for the following:

1. Enrollment Fee
2. Parking Fee
3. Tuition

PARKING PERMIT

All vehicles parked on campus must have a valid parking permit. If you will be bringing a vehicle to campus, please complete the vehicle registration form available in the registration packet.

ACCREDITATION

The college is officially accredited by the Accrediting Commission 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. Accreditation reports are available and may be reviewed at the office of the President. The University of California and other colleges and universities give full credit for transfer courses completed here.

COUNSELING AND ADVISORY SERVICES

It is the aim of Imperial Valley College to provide all students with pertinent information which they will need in the formulation of goals and objectives and to assist them in making the most of their potentials and abilities. 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 a.m. and 8:00 p.m., Monday through Thursday, and 8:00 a.m. and 5:00 p.m. on Friday during the school year. A Career Center is located in the Counseling Center and provides extensive vocational and career information.

Although counselors assist in long-range planning and in choosing a major, THE RESPONSIBILITY FOR MEETING 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 catalogs from various colleges and universities.

STUDENT ACTIVITIES

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

Those students who are socially inclined will find an opportunity for the development of their interests in clubs and the social affairs of the year. Others who are interested in the arts may benefit from a variety of intercollegiate sports and those who are interested in music, publications, or student government will find many opportunities for participation in these activities.

REGULATIONS

ADMISSION

Admission to Imperial Valley College is governed by the laws of the State and such supplementary regulations as are prescribed by the local authorities. Students who register for or complete units of work in a given semester or upon an accumulation of eight or more units, are required to verify that an official transcript of all work taken in high school and/or institutions of higher education has been sent to the Registration Office, and (2) complete the place test (unless they have completed regular college courses in both English and mathematics).

All students are admitted under one of the following classifications:

1. High school graduates or equivalent certificates (General Educational Development or California High School Proficiency Examination)
2. Nongraduates of high school who are eighteen years 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.)
4. College Transfers who submit official transcripts (high school and college) may be granted advanced standing.
5. Prospective foreign students and students from other states may be accepted for enrollment. A tuition fee will be charged at the Registration Office for current costs.

OFFERING services and resources for proper course selection
Providing an opportunity to develop a Student Educational Plan.

Students are responsible for:

Selecting an educational goal or major by the semester following the completion of 15 semester units.
Registering for classes.
Attending classes regularly.
Taking college seriously.
Meeting with a counselor to develop a Student Educational Plan.
Requesting additional services when needed.
Completing their courses for a goal.

The college may suspend or terminate services to any student who fails to fulfill his/her responsibilities. However, the college may never suspend or terminate any service for which a student is otherwise entitled under any other provision or law. In addition, students may challenge any matriculation requirement or regulation using the student petition process.

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 Imperial Valley College Tutors Club provides many academic enrichment activities for students interested in tutors. In addition, bilingual services exist for students with limited English-speaking ability and who desire academic assistance in linguistic interpretation in their courses.

The Learning Supportive Services Center houses a variety of audiovisual equipment and media. It has an extensive variety of slides, tapes, films, magazines, records, special media kits, and other visual and educational materials which supplement the broad subject range of courses offered in this campus. An extensive videoconference library has been developed which provides students with an opportunity to view educationally relevant television broadcasts and motion pictures.

ASSISTANCE

It is the policy of Imperial Valley College that new students seeking to enroll in their initial reading, writing, and/or math classes be assessed. Assessment includes basic skills testing, needs analysis, evaluation of past performance, aptitudes, goals, learning and study skills, and motivation. Students may be exempt from the basic skills portion of assessment if they enroll in entry level classes for which there are no prerequisites, or if they enroll in classes identified as "core" level by the Academic Department. All assessment of students is done in the Counseling Center and all placement based on such assessment is strictly advisory.

MATRICULATION PROCESSES

Matriculation is a process that promotes and sustains the efforts of community college students to achieve their educational goals through a coordinated program of instruction and the use of appropriate college programs and services. Enroll in classes to constitute an agreement in which the college is responsible for:

• Helping students to succeed in their college careers.
• Assisting students in making decisions based on accurate information.

Imperial Valley College furnishes two free transcripts. Thereafter a fee of 50 cents is charged for each additional transcript. Requests for transcripts will not be honored until the last examination of the semester is complete, and all fees paid.

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT OF 1974

All educational records of students who enroll at Imperial Valley College are kept in accordance with the provisions of the Family Educational Rights and Privacy Act of 1974.

The following information will be available in the Admissions and Counseling Office 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 file a petition requesting deletion from the list before the opening of the school term.

For additional information or a copy of the entire law, contact the Registration Office in the Administration Building.

AFFIRMATIVE ACTION POLICY

The District adopted an Affirmative Action Plan in 1973. This plan continues to be in effect. The establishment and development of the Plan demonstrates the District's commitment to an affirmative action and equal employment opportunity for all employees and prospective employees. The Plan is available in the libraries of Palomar, San Diego City, San Diego Community College District, Imperial Valley College, and the Administrative Office of the Superintendent's office, and the Affirmative Action Officer's office.

UNIDIVERSITY POLICY

Imperial Valley College does not discriminate in the admission nor in the offering of programs and activities because of race, color, religion, age, marital status, national origin, sex, or handicap.

The coordinator for Imperial Valley College's compliance with Section 504 of the Rehabilitation Act of 1973 is Melvin Vendrick, P.O. Box 158, Imperial, CA 92251, (619) 352-8320, Ext. 312, TTY (619) 355-4716. The Title IX officer for Imperial Valley College is Jan Magno, P.O. Box 158, Imperial, CA 92251, (619) 352-8320, Ext. 257.

UNIVERSITY 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 specific provisions. Since the concept of residence involves subjective intent, this catalog cannot contain a comprehensive set of rules for every situation that could arise in 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
3. The residence determination date shall be that date immediately preceding the first day of class either semester or summer term.

Residency requires physical presence in California with an intent to make one's home here.

To determine a person's place of residence, reference is made to the following:

1. Every person who is married or 18 years of age, or older, and under no legal disability to do so, may establish residence.

2. There can be only one residence.

3. The residence can be changed only by the union of act and intent.

4. The residence of the parent with whom an unmarried minor child resides is the residence of the unmarried minor child. When the minor is a full-time employee, the place of abode is the residence of the unmarried minor child. When the minor resides in a public school and employed in a certified position by a community college district, the residence will be determined by the district.

5. The residence of an unmarried minor, who has a parent living, cannot be changed by his/her own act, by the appointment of a legal guardian, or by relinquishment of a parent's right of control, unless the parent qualifies for 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 until they obtain such classification.

1. Minors who remain in California after their parents have moved from the state, as long as the parents have attended the University of California prior to the resident determination date.

2. Minors who have been self-supporting and in California for one year preceding the day before the term, will be granted resident classification.

3. 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 residence to obtain the residential requirements.

4. A child or a spouse of a member of the armed forces stationed in California will be granted resident classification. A 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 residence or the individual will be subject to nonresident tuition for any subsequent enrollment.

5. Adult aliens, present for one year and one day, will be given resident classification. Minor aliens may use the parents' durations of presence to satisfy the one year and one day requirement.

6. Aliens who hold the following classification are to be established residence using the same criteria as would be applied when evaluating any United States citizens:
   a. Career Diplomat Visa
   b. fiancee Visa

7. A student holding a valid credential authorizing him to be in a public school and employed in a certificated position by a community college district will be given resident classification.

8. A student who is an apprentice within the meaning of Section 309 of the Labor Code, is entitled to resident classification.

9. A student who is a full-time employee of a California institution of public higher education, or a California institution of higher education, may be granted resident classification at the option of the institution of enrollment.

10. A student may be classified as a district resident if he/she lives with a person who earns a livelihood primarily by performing agricultural labor for hire in California and other states, and the parent has performed such labor in this state for at least two months per year in each of the two preceding years; the parent lives within the district while maintaining the community college attended by the student; the parent claims the student as a personal dependent on his/her state or federal income tax returns, if he/she has sufficient income to have a personal income tax liability.

11. A student may be classified as a district resident if he/she lives with a person who earns a livelihood primarily by performing agricultural labor for hire in California and other states, and the parent has performed such labor in this state for at least two months per year in each of the two preceding years.

Examples of evidence that aid the college admissions officer in identifying that intent, but which are not individually decisive, are possession of a document of California origin such as a driver's license, a current utility bill, a receipt for registration to vote, a current lease, rental agreement, or rent receipt showing the student's name and address and place of residence, a library card, last year's state and federal income tax information, a current 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 Resident Questionnaire or the Supplemental Residency Questionnaire, if one is used, may be classified as a nonresident.

STUDENT ENROLLMENT STATUS

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 students is 18 units, including an activity course in physical education. Exceptions to this rule will be made by special permission of the administration (through the petition process) when there is clear evidence of successful scholastic performance.

A student who is currently enrolled in another school or college (including correspondence school or independent study) must report this enrollment to the registration office. The student must attend 15 units during a semester for all college work may not exceed the 18 unit limit.

SHORT-TERM CLASSES

Enrollment procedure for short-term classes are the same as for regular classes. However, listed below are items which pertain to short-term classes only and should be noted:

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 three-fifths of the way through the class.

3. Fees may be refunded up to one-fifth of the way through the class.

4. Units and grades for the student will be recognized for the semester in which the class ends. Thus, if the class begins during the fall semester, crosses over in California, and ends during the spring semester, the units and grades will be recorded for the spring semester.

CHARGES AND CLASS SCHEDULES

When registering, it is expected that a student's registration schedule shall not be completed on a trial basis; therefore, students 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 semester. Changes will be made by obtaining an add card and approval of the instructor and then filing with the Registration Office.

GRADING SYSTEM

Grades are based upon the quality of work done; that is, upon actual accomplishment in courses offered for credit. Grading shows the standing of students are issued at the end of each semester.

1. GRADES
   a. Superior
   b. Better Than Average
   c. Average
   d. Below Average
   e. Failing

   An incomplete grade may be negotiated for unfinished work, otherwise passing indicating that (because of medical or other sufficient reason) an important assignment such as a term paper, final examination, or experiment is missing.

   An incomplete (I) grade, which is not made up by the end of the sixth week of the next regular class, shall be converted to a letter grade. The letter grade shall be used in computing grade point average.

2. CREDIT GRADE

   Certain courses designated by the appropriate divisions may be taken for Cr or grade. Students must declare their intentions 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 grade.
   c. Cr grades are permissible in the student's major field at Imperial Valley College if permitted or allowed by the division or department.
   d. Students applying for Cr must adhere to the same class standards or regulations as a student receiving a regular grade.

   e. A maximum of 16 units taken on a credit basis may be applied toward a degree.
   f. The Cr grade will satisfy completion of prerequisites for sequence class.

3. WITHDRAWAL GRADES

   a. W

   a. A maximum of 16 units taken on a credit basis may be applied toward a degree.
   b. The Cr grade will satisfy completion of prerequisites for sequence class.
   c. W without approval is not acceptable.
A student may withdraw from any course or from the college with a "W" grade by the end of the 14th week (or 75% of a term, whichever is less) of the semester by filing a drop card in the Registrar's Office. After the 14th week (or 75% of a term, whichever is less) 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 (or 75% of a term, whichever is less) for excessive absences or for disciplinary reasons.

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

- First 75% of class: "W" Grade
- Last 25% of class: "Letter" Grade

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 (or 75% of a term, whichever is less) of the semester and it will be processed. Students will also have the opportunity to file a drop card through the 14th week (or 75% of a term, whichever is less) and it will be processed. A drop card filed by a student will be valid with or without the instructor's signature. If the instructor's signature does not appear, the instructor will be notified by the Registrar's Office.

Students may be allowed to withdraw from a class by action in extenuating circumstances after the last day of the 14th week (or 75% of a term, whichever is less) by a petition of the student or his/her representative after consultation with the instructor(s).

Existentiating circumstances are verified cases which are beyond the control of the student, i.e., documented cases of serious accident, serious illness, or transfer of a student by military order.

4. PROFICIENCY ENROLLMENT

If a student has completed a proficiency in a subject area with a satisfactory grade, he/she may not take a lower proficiency level in that subject area. For example: A student cannot enroll in English 20 after having successfully completed English 1A. (This does not apply to vocational refresher courses.)

5. REPEATED CLASSES

Procedure for Repeated Classes:

- A student wishing to repeat a class in which a grade of D or F has been received must complete a NOTICE OF REPEATED CLASS CARD. This card must be returned to the Registrar's Office prior to the completion of the repeated class.

The Registrar's Office will process Repeated Class cards and approved Student Petitions so that grades, units, and grade points of the original class will not be used in computing 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 received. The student must petition the college, and the college will permit the student to repeat the course. 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
- B: 3 grade points per unit
- C: 2 grade points per unit
- D: 1 grade points per unit
- F: 0 grade points per unit

- Cr: 0 grade points per unit; units not charged against the student
- MC: 0 grade points per unit; units not charged against the student
- I: 0 grade points per unit; units not charged against the student
- W: 0 grade points per unit; units not charged against the student

The grade point average is computed by dividing total grade points earned by total units attempted.

7. CREDIT BY EXAMINATION

An enrolled student may petition to take an examination in lieu of course work between the sixth and fourteenth weeks of each semester. A maximum of 25 units may be used toward graduation through this process. No more than 15 units per semester are allowed. The fee is $20.00 per unit plus $10.00 for administrative costs for each examination administered. The credit by examination petition is available in the Registrar's Office.

8. 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. General education courses taken longer than five years will be evaluated on an individual basis. Evaluation of all previous educational work (or experience) is done on an individual basis by the nursing faculty. Details are available in the nursing office.

9. MILITARY CREDIT

A Guide to the Evaluation of Educational Experience in the Armed Services, American Council on Education is used to evaluate military school credit.

a. Presentation of the DOD-241 (Minimum of 180 days active duty to include basic training) to the

Veterans Assistant may allow the veteran 4 units of credit for basic training in the military service of the United States of America (2 units for physical education and 2 units for health education).

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 exceed 16.

10. CREDIT FOR UPPER DIVISION 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

A policy to exclude substandard grades without repeating classes. A student may petition for Academic Renewal only once after a five year lapse of time and after completing 12 units with a 2.0 grade point average or higher.

Either substandard grades (D's or F's) or an entire semester may be excluded. A maximum of two semesters or 30 units may be disregarded. A counselor must be consulted to petition for Academic Renewal. Once Academic Renewal has been done, it may not be reinitiated.

12. TERMS OF GRADES

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

13. COURSE CONDUCT

It is assumed that the entry of a student into Imperial Valley College constitutes the student's acceptance of the Standards of Student Conduct and the regulations published by the college. The Standards will be found in the Handbook for Faculty Advisors and Student Leaders, which is available in the Office of Student Life and Community Services.

14. CLASS REGULATIONS

A speed of 10 mph on campus must be strictly observed.

Smoking is prohibited in all buildings at Imperial Valley College.

All nondistrict, self-propelled and/or any motor driven means of movement, other than wheelchairs, are prohibited from using campus sidewalks and playing courts.

15. ACADEMIC PROBATION

Academic Probation is a system of monitoring student progress in order to identify students who are experiencing difficulty in making satisfactory progress toward an appropriate educational objective, and providing special assistance to students in reassessing their educational objectives and guiding them to accomplish these goals.

Students who are placed on probation will be identified as early as possible at the termination of each semester and will be referred to the Counseling Center.

There are two types of Academic Probation:

Scholastic Probation

Any student who completes six or more units in any semester and earns less than a 2.0 grade point average will be placed on Scholastic Probation. A student will remain on Scholastic Probation until the student's grade point average is 2.0 or better.

Lack-of-Progress Probation

At the end of each semester, any student who has accumulated a recorded enrollment in 12 or more units may not receive more than 50 percent of those units in nonacademic grades (W, NC) and will be placed on Lack-of-Progress Probation until the completed units are 50 percent or more of the student's recorded enrollment.

16. PROVISIONAL STATUS

A newly enrolled freshman who is enrolled in more than six units and who fails into one of the categories listed below shall be admitted 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 or below a grade of D) or grade of F in a core course or grade of S in nonacademic classes (S, NC) or grade of S in nonacademic classes (S, NC) excluding only physical education and military science.

All other courses

A = 4.0
B = 3.0
C = 2.0
D = 1.0
F = 0

2. Student is not a high school graduate.

Students on provisional status shall develop, with a counselor, a 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 aptitudes and achievement.

Provisional status is removed when students have successfully completed 12 units of work.

17. PETITION AND HEARING PROCESS

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 Valley College District educational philosophy.

Petition Process

The petition process is used to request exceptions to the rules 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 Registrar's Office and Counseling Center) and submit his/her request to the 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 committee.

Hearing Process

There are three established areas which may require hearing procedures for students and campus organizations seeking responses to educational questions or issues. These are:

1. Standards of Student Conduct
2. Academic Records and Challenge Procedure
3. Grievance Procedure Policy in Matters of Non-discrimination

Hearing Procedure

Students and campus organizations are requested to summarize their concerns or issues in writing and submit them to the Registrar who is designated coordinator of the hearing procedures.

ATTENDANCE AND AUTOMATIC WITHDRAWALS

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

Regular attendance in all classes is expected of all students enrolled. Instructors are expected to take a student's attendance record into account in computing grades. A student may be excluded from further attendance in a class if he is found to be truant, and his status is such that he should not be present for any one class hour of the class. The instructor's evaluation of the student will be based upon the student's absence from class and his performance on class work. The instructor will request that the student see his advisor before the student will be allowed to enroll during the next semester or the current summer session (except by special approval upon petition to the Admissions, Registration and Petition's Committee).

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 50% or more of recorded enrollment of "W", "I", or "NC" in the last three consecutive semesters of enrollment. The dismissed student will not be allowed to enroll during the next semester or the current summer session (except by special approval upon petition to the Admissions, Registration and Petition's Committee).

ELIGIBILITY AND CERTIFICATION OF VETERANS ENROLLMENT

Imperial Valley College will certify students for Veteran Benefits who are on Scholastic or Lack-of-Progress Dismissal status.

Students who have previously been placed on Scholastic Probation and have a cumulative grade point average of 1.75 or less in the last three consecutive semesters of enrollment and are eligible for certification of Veteran Benefits will be dismissed at the end of each semester as a veteran student if he/she has not met all academic requirements as required under Veterans Administration approval criteria regulations.

ELIGIBILITY AND CERTIFICATION OF VETERANS ENROLLMENT

Students who have previously been placed on Lack-of-Progress Probation and have 50% or more of recorded enrollment of "W", "I", or "NC" in the last three consecutive semesters of enrollment will be dismissed at the end of each semester as a veteran student (lost veteran certification) as required under Veterans Administration approval criteria regulations.

PHYSICAL EDUCATION

Students under 21 years of age and registered for more than eight units shall be required to register and complete successfully a physical education activity class each semester for which they are registered (a maximum of four P.E. activity classes is required).

Exemptions may be granted for:
1. Physical disability (medical excuse required)
2. Age, twenty-one or over
3. Postgraduate standing
4. 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 includes tennis shoes, shorts, sweat pants or jogging apparel, and tee shirts or a similar top for vigorous activity.

Students who fail to enroll or are dropped by their instructor from a physical education activity class will be 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 catalog and shall supersede, upon proper public announcement, any ruling on the same subject which may appear in the printed catalog or official bulletin of the college.

A student may be graduated under the catalog in effect at the time of initial enrollment provided a continuous enrollment status is maintained during each summer session (excluding summer sessions).

GRADUATION REQUIREMENTS

UPON COMPLETION OF THE FOLLOWING REQUIREMENTS, STUDENTS AT IMPERIAL VALLEY COLLEGE WILL BE GRANTED THE DEGREE OF ASSOCIATE IN ARTS OR ASSOCIATE IN SCIENCE, DEPENDING UPON THE MAJOR COMPLETED. RESPONSIBILITY FOR FILING A PETITION FOR GRADUATION RESTS WITH THE STUDENT. THIS PETITION IS TO BE SUBMITTED WITHIN FORTY-FIVE (45) DAYS OF THE END OF THE SPRING SEMESTER. A $10.00 nonrefundable fee must accompany the petition for graduation.

Additional Associate Degree(s) or Major(s) may be earned if the student completed courses and units beyond the prior degree(s) or major(s). Courses used in one major may be utilized in other majors so they apply. If a student breaks continuous enrollment, he/she will also be responsible for additional graduation requirements or required courses in the major as designated by the current catalog in effect.

The requirements for graduation represent State and Institutional minimum general requirements as well as the firm commitment on the part of Imperial Valley College to the principles of general education. These requirements in general education are designed to develop the potential of every student, broaden their outlook, and contribute to the realization of the well-balanced whole person.

ACQUISITION OF MAJOR CONSISTING OF EIGHTEEN UNITS (UNLESS OTHERWISE DESIGNATED IN A SPECIFIED FIELD OF STUDY)

Students must satisfy the major requirement in the following fields of study. Individual courses of study and major are listed after the Courses of Instruction.

A. S. - Administration of Justice
A. S. - Agricultural Business Management/Transfer
A. S. - Agricultural Engineering Technology
A. S. - Agricultural Science/Forestry
A. S. - Alcohol and Drug Studies

II. UNITS, GRADE POINT AVERAGE, RESIDENCE AND FINANCIAL AID REQUIREMENTS

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 least the last fifteen (15) units at Imperial Valley College.

In-residence units refer to those units taken at Imperial Valley College in which a student is enrolled, attends class sessions of one semester's duration, and receives a passing grade. Credits include all regular, extensions, credits, military credits, and/or credit by...
IISTITUTICIIAl REQUIREMENTS

B. Health

C. STATE

A. Math

Ing

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requireaent.

a. Natural Science (3 units required)

b. Behavioral & Social Science (3 units required)

Ag 30 Food & Fiber in a Changing World

Ag 50 Introduction to Anthropology

Anthro 2 Cultural Anthropology

Anthro 3A Introduction to Archaeological Site Surveying

Anthro 3B Introduction to Archaeological Excavations

Anthro 6 Indians of North America

Anthro 8 Indians of the Southwest

ECE 20 Developmental Psychology of Children

ECE 21 Early Childhood Socialization: Children, Family and Community

ECE 22 Advanced Developmental Psychology and Observation

ECE 27 Understanding Exceptional Children

ECE 34 Infant/Toddler Development

Econ 1 Principles of Economics

Econ 2 Principles of Economics

Geog 2 Cultural Geography

Geog 3 Economic Geography

Hist 30 Mexican and the American Southwest

Nelson Valley College

Pl 1 Introduction to Early Childhood Education

Poly Sci 3 US Government and Politics

Poly Sci 14 Intro. to International Relations

Psych 1A Introduction to Psychology

Psych 1B Learning

Psych 2 Biological Psychology

Psych 3 Psychology of Adjustment

Psych 4 Psychology of Human Sexuality

Psych 5 Psychology of Effective Behavior

Psych 9 Intro to Counseling

Psych 14 Abnormal Psychology

Psych 15 Social Psychology

Psych 20 Developmental Psychology of Children

Psych 21 Early Childhood Socialization: Children, Family and Community

Psych 22 Advanced Developmental Psychology and Observation

Psych 27 Understanding Exceptional Students

Psych 30 Psychology of Adolescence

Psych 33 Developmental Psychology: Conception to Death

Social 1 Introductory Sociology

Social 2 Contemporary Social Problems

Social 17 Social Psychology

Social 33 Marriage and the Family

Social 50 Human Services in a Changing Society

c. Humanities (3 units required)

Art 3A/5A History & Appreciation of Art

Art 3B/5B History & Appreciation of Modern Art

Drama 3A/5A History of World Drama

Eng 18 Introduction to Literature

Eng 41 Survey of American Literature

Eng 42A/42B Survey of World Literature

Eng 43A/43B Survey of English Literature

Eng 44A/44B The American Literature

Eng 47 Intro. to the Bible as Literature

Eng 54 Intro. to Canadian, British, and American Journalism

Fr 1 Elementary French

Fr 1A/1B Elementary French

Fr 2 Intermediate French

Fr 10 Intermediate Conversational French

Fr 11 Intermediate Conversational French

Ger 1 Elementary German

Ger 1A Elementary German

Ger 1B Elementary German

Ger 2 Elementary German

Hist 44A History of Western Civilization

Hum 1A/1B The Humanities & Western Culture

Hum 25 Introduction to the Humanities

Hum 26 The Humanities

Mus 17AD Chamber Singers

Mus 18AD Chamber Orchestra

Mus 20A/20B History & Literature of Music

Mus 30 Intro. to Music Literature & Listening

Mus 31 Intro. to Twentieth-Century Music

Phil 1A/1B Introduction to Philosophy

Phil 11 Ethics

Phil 25 Religions of the Modern World

Pl 10 Beginning Elementary Spanish

Pl 11 Intermediate Communication with the Deaf

Pl 12 Advanced Communication with the Deaf

Span 1 Elementary Spanish

Span 1A/1B Beginning Communication with the Deaf

Span 2 Elementary Spanish

Span 2A/2B Elementary Spanish

Span 3 Intermediate Spanish

Sp 4 Elementary German

Span 5A/5B Beg. Conver. Spanish & Culture

Span 20A/20B Intermediate Spanish

Span 23 Bilingual Oral Spanish

Span 25 Intro. to Spanish American Literature

Spanish 25A/25B Mexican American Literature

Spanish 42 Intro. to Mexican American Studies

d. Language and Rationale

1. English Composition (3 units required)

A grade of "C" or higher in

Eng 1A Reading & Composition

or

Eng 28 Basic English Composition

2. Communication & Analytical Thinking (3 units required)

Bus 15 Introductory Calculus with Applications

Bus 26 Elementary Statistics

CIS 1 Introduction to Information Systems

CIS 10 Programming in COBOL

CIS 12 Programming in Basic

CIS 14 Programming in Fortran

Eng 11 Reading IV: Analytical & Critical

Eng 50 Advanced Composition

Eng 52 Introduction to Linguistics

Eng 53A Creative Writing

Eng 55 Intro. to Technical & Report Writing

Jrn 1 Introduction to Journalism

Math A Intermediate Algebra

Math 2 Advanced Algebra & Trigonometry

Math 3A Analytic Geometry & Calculus

Math 10A Math for Elem. School Teachers

Math 12 Elementary Statistics

Math 15 Introductory Calculus with Applications

Math 47 Programming in Fortran

Math 57 Programming in Basic

Math 58 Computer Programming in Pascal

Phil 10 Logic

Psych 13 Elementary Statistics

Sp 1 Oral Communication

27

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 to which the student expects to transfer. These are as follows:

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

2. The completion of the lower-division prerequisites for upper-division majors and minors.

These vary according to the requirements of the Institutions of higher education to which the student expects to enroll. A student expecting to transfer to such an institution should consult the catalog of the institution.
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.

A student planning to transfer to the California State University system can, at their request, have the general education requirements certified by Imperial Valley College. In order to meet this certification, a student must complete thirty-nine (39) units of selected general education in five areas: English communication and critical thinking; physical universe and its life forms; arts, literature, philosophy, and foreign language; social, political, 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 California State University assured that no further general education 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)
      Speech 1 (3)
   2. Written English (1 course required)
      English 2 (3)
   3. Critical Thinking (1 course required)
      Eng 11 (3) or Phil 10 (3) or Eng 50 (3) Speech 1 (3)

B. PHYSICAL UNIVERSE AND ITS LIFE FORMS (9 units with at least one lab course marked with an L)
   1. Life Science (1 course required)
      Ag 14 (L) (3) Bio 21 (L) (3)\n      Anat 8 (L) (4) Physio 1 (L) (4)\n      Anat 10 (L) (5) Psych 2 (3)\n      Anthro 1 (L) (3) Zool 11/18 (L) (4-4)\n      Bio 3 (L) (4)
   2. Physical Science (1 course required)
      Ag.Env Sc 5 (L) (3) Chem 12 (L) (5)\n      Ag 60 (L) (5) Geog 1 (L) (5)\n      Astron 21 (L) (3) Phys 4A/48 AC (L) (5)\n      Chem 1A/1B (L) (5-5)\n      Chem 2A (L) (4) Phys Sc 25 (L) (4)\n      Chem 5 (L) (4)
   3. Math (1 course required)

C. ARTS, LITERATURE, PHILOSOPHY, AND FOREIGN LANGUAGE
   (9 units selected from 3 different subject areas)
   1. Art 3A/3B (L) (3) Hum 1A/1B (L) (3)
   2. Art 4 (L) (3) Pre-Fine Art (3)
   3. Art 5 (L) (3) Hum 26 (L) (3)
   4. Dmm Art 5A/5B (L) (3) Mus 7 (L) (3)
   5. Eng 18 (L) (3) Mus 20A/20B (L) (3)
   6. Eng 41 (L) (3) Mus 30 (L) (3)
   7. Eng 42A/42B (L) (3) Mus 31 (L) (3)
   8. Eng 43A/43B (L) (3) Phil 1A/1B (L) (3)
   9. Eng 44A/44B (L) (5) Phil 31 (L) (3)
   10. Eng 44A/Spn 28A/3-3 (L) Phil 25 (L) (3)
   11. Eng 44B/Spn 28B/3-3 (L) PL 10 (L) (4)
   12. Eng 47 (L) (3) PL 11 (L) (4)
   13. Eng 54 (L) (3) PL 12 (L) (3)
   14. Fr 1 (L) (3) Span 1 (L) (3)
   15. Fr 1A/1B (L) (2-5) Span 1A/1B (L) (2-5)
   16. Fr 2 (L) (3) Span 2 (L) (3)
   17. Fr 2A/2B (L) (2-5) Span 2A/2B (L) (2-5)
   18. Fr 3 (L) (4) Span 3 (L) (5)
   19. Fr 4 (L) (4) Span 4 (L) (3)
   20. Fr 5 (L) (5) Span 20A/20B (L) (5-5)
   21. Fr 10 (L) (3) Span 23 (L) (5)
   22. Fr 11 (L) (3) Span 25 (L) (5)
   23. Ger 1 (L) (4) Span 42 (L) (3)
   24. Ger 1A/1B (L) (2-2)
   25. Ger 2 (L) (4) Hist 6A/6B (L) (3)

D. SOCIAL, POLITICAL, AND ECONOMIC INSTITUTIONS (9 units)
   1. American Institutions (6 units required)
      a. Hist 12A/12B (L) (3-3)
      b. Phil 31 (L) (3)
   2. Select one course from a subject area not completed in Section A. Part 1, above above
      Ag 30 (L) Hist 30 (L)
      Agric 30 (L) Poly Sc 3 (L)
      Anthro 4 (L) Poly Sc 1 (L)
      Anthro 4D (L) Poly Sc 2 (L)

E. UNDERSTANDING LIFE & SELF-DEVELOPMENT (3 units)
   HE 1 (L) (3) Psych 16 (L)
   HE 1B/1C (L) (3-3) Psych 26 (L)
   Psych 4 (L) (3) Soc 33 (L)

Transfer Credit

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

The Intersegmental Committee of the Academic Senates recently approved the Intersegmental General Education Transfer Curriculum (IGETC) which will be implemented in Fall 1991. The IGETC is a series of courses that community college students can use to satisfy lower-division general education requirements at any CSU or UC campus. The IGETC will provide an option to the California State University General Education Requirements and will replace the University of California Transfer Core Curriculum.

It is important to note that, since the IGETC supersedes the UC Transfer Core Curriculum (TCC) option, CSU students (those entering Fall 1991 and after) need to complete the IGETC. However, for continuing students who have been following the Transfer Core Curriculum requirements, the University of California will honor the TCC policy through Spring 1993.

The Intersegmental General Education Transfer Curriculum will permit a student to transfer from a community college to a campus in either the California State University or the University of California system without the need, after transfer, to take additional lower-division, general education courses to satisfy campus G.E. requirements.

Completion of the IGETC is not a requirement for transfer to a CSU or UC, nor is it the only way to fulfill the lower-division, general education requirements of the CSU or UC prior to transfer. Students may find it advantageous to take courses fulfilling CSU's general education requirements or those of a particular UC campus.

Detailed information of IGETC was not available at time of publication of this catalog. Interested students should contact a counselor for further information.

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 Transfer 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 that the final responsibility for the selection of proper courses rests with the student.
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 student should take this into consideration when making long-range program plans.

Course numbers followed by an *A* sequence indicate that the course may be taken more than once, covering the same materials, to gain proficiency in the subject matter. Course numbers which have an *A* and *B* sequence with different course descriptions indicate that new or advanced materials are to be covered.

Course descriptions followed by the notation (CSU, UC) indicate that the course is transferable to the California State University 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 instructor and the Vice President for Academic Services.

Imperial Valley College does not establish prerequisites in communication or computational skills that apply to all courses across the curricula. Basic skills prerequisites and corequisites are offered in sufficient number to meet the majority of the prerequisite requirements. Any prerequisite may be challenged by a student on one or more of the following grounds:

1. The prerequisite is not necessary for success in the course.
2. The student has the knowledge or ability to succeed in the course despite not meeting the prerequisite.
3. The prerequisite is discriminatory or is being applied in a discriminatory manner.

Unless specifically exempted by statute, every course, course section or class, the average daily attendance of which is to be reported for state aid, wherever offered, as defined by Imperial Community College District, shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets such prerequisites as may be established pursuant to Chapter 2, Division 2, Part VII, Title 5 of the California Administrative Code commencing with Section 51020 (Board of Trustees Resolution No. 5468).

**CALIFORNIA ARTICULATION NUMBER (CAN)**

The California Articulation Number (CAN) identifies some of the transferable, lower division, introductory (preparatory) courses commonly taught within each academic discipline on California college campuses.

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

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

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**SUMMER SESSION**

(When Offered)

Summer session calendar and admission requirements may be found in the latest summer session schedule of Classes which is published during the Spring Semester.

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**ADMINISTRATION OF JUSTICE**

**ADJ 21 (3)**

**INTRODUCTION TO THE ADMINISTRATION OF JUSTICE (CAN AJ 2)**

3 hrs. Lec.

Prerequisites: Eng 2A or consent of the instructor.

The course will cover the philosophy of Administration of Justice in America and identify its various subsystems. It will define the roles and role expectations of criminal justice agents and their interrelationship in society.

The concepts of crime causation, punishment and rehabilitation are introduced. This basic course provides a better understanding of the criminal justice system and orienta the student to career opportunities.

(Statistics, education and training for professionals in the system are discussed.) (CSU UC credit limited. See a counselor.)

**ADJ 23 (3)**

**CONCEPTS OF CRIMINAL LAW (CAN AJ 2)**

3 hrs. Lec.

Prerequisites: Eng 2A or consent of the instructor.

The course covers the historical development of law and constitutional provisions; definitions and the classification of crime and their application to the system of administration of justice; legal research, study of case law, methodology, and concepts of law as a social force are presented. Crimes against persons, property, government and organized crime are discussed. (Formerly Advus 33) (CSU, UC)

**ADJ 25 (3)**

**LEGAL ASPECTS OF EVIDENCE (CAN AJ 6)**

3 hrs. Lec.

Prerequisites: ADJ 21. Origin, development, philoso-

phy and constitutional basis of evidence; constitutional and procedural covering arrest, search and seizure; kinds and degrees of evidence and rules governing admissibility; Judicial decisions interpreting individual rights and case studies. (Formerly Advus 35) (CSU)

**ADJ 26 (3)**

**PRINCIPLES AND PROCEDURES OF THE JUSTICE SYSTEM (CAN AJ 6)**

3 hrs. Lec.

An in-depth study of the role and responsibilities of each segment within the administration of the justice system: law enforcement; judicial; corrections. A past, present and future exposure to each sub-system procedures, training, utilization and final disposition, and the relationship each segment maintains with its system member. (Formerly Advus 36) (CSU, UC)

**ADJ 28 (3)**

**POLICE COMMUNITY RELATIONS (CAN AJ 6)**

3 hrs. Lec.

Through interaction and study, the student will become aware of the relationship and role expectations among the various agencies and the public. Emphasis will be placed upon professional image and the development of positive relationships between members in the criminal justice system and the public. Concepts of human rela-

tions as they apply to administration of justice issues, future trends, and training will be discussed. (Formerly Advus 25) (CSU, UC)

**ADJ 30 (3)**

**CRIMINOLOGY (CAN AJ 6)**

3 hrs. Lec.

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

al reaction to crime. (Same as Soc 30) (CSU)

**ADJ 31 (3)**

**CONCEPTS OF PROBATION AND PAROLE (CAN AJ 6)**

3 hrs. Lec.

A survey of the historical development of probation and parole from early court procedures through modern prac-

tices with an emphasis on the operation of probation and parole agencies in California including such topics as judicial and parole laws and procedures. (CSU)

**POLICE FIELD OPERATIONS (CAN AJ 6)**

3 hrs. Lec.

Prerequisites: Twelfth grade reading and writing level (recommended). The development, function and techniques of police; police training techniques; traffic and traffic preliminary investigative duties, handling complaints and requests for service, public and community relations and basic crime prevention. The mechanics of field investigation, interviews and arrests, note-taking and police report essentials. (Formerly Advus 22) (CSU)

**ADJ 33 (3)**

**TRAFFIC CONTROL AND VEHICLE CODE (CAN AJ 6)**

3 hrs. Lec.

The study of traffic control and Vehicle Code problems. This class is designed to familiarize the student with the California Vehicle Code and interpret the various sections, thereby gaining and demonstrating the working knowledge of the Code. The student will demonstrate proper traffic control procedures as it relates to the Vehicle Code. (Formerly Advus 26) (CSU)

**ADJ 34 (3)**

**CRIMINAL INVESTIGATION (CAN AJ 6)**

3 hrs. Lec.

Fundamentals of investigation; techniques of crime scene recording and search; collection and preservation of physical evidence; preliminary operational procedures; sources of information; interview and interrogation; follow-up and case preparation. (CSU)

**ADJ 35 (3)**

**INTRODUCTION TO CORRECTIONS (CAN AJ 6)**

3 hrs. Lec.

Prerequisites: Eng 2A, 12B. (Recommended) A study and survey of the historical, philosophical and practical approaches to the control of crime and the correctional. The relationship processes of corrections within the criminal justice system and an overview of the organization and management within corrections. (Formerly Advus 25) (CSU)

**ADJ 36 (3)**

**TRAFFIC ACCIDENT INVESTIGATION AND REPORTING (CAN AJ 6)**

3 hrs. Lec.

Prerequisites: Twelfth grade reading and writing level (recommended). This course is designed to provide the student with the basic knowledge required to investi-

gate, interview, and complete a traffic accident report. Emphasis on Investigation, interrogation, and report writing that is required by enforcement officers in the course of their duties. (Formerly Advus 26) (CSU)
ADJ JUS 37 (3) JUVENILE COURT PROCEDURE
3 hrs. LeC.
Techniques of handling juvenile offenders and victims, prevention and repression of delinquency, diagnosis and referral, organization of community resources, juvenile law and juvenile procedure. (Csu)

ADJ JUS 38 (3) WILDLIFE LAW ENFORCEMENT
3 hrs. LeC.
This course is designed to provide the students with the basic knowledge necessary to understand the importance of wildlife law enforcement as an essential tool of wildlife management in the perpetuating, protecting, and managing of fish, wildlife, and other natural resources. (Formerly Admjs 28) (Csu)

ADJ JUS 39 (3) REPORT WRITING FOR ADMINISTRATION OF JUSTICE
3 hrs. LeC.
Prerequisite: Eng 24 or consent of the Instructor. This course is designed to provide the student with a basic knowledge of how to conduct a successful preliminary investigation of a crime and how to recognize and record that information. Emphasis on practical aspects of report preparation and writing required by law enforce­ ment officers in the course of their duties. Techniques of communicating facts, information and ideas effect­ ively in a simple, clear and logical written form for use in the criminal justice system. (Formerly Admjs 29) (Csu)

ADJ JUS 40 (1.5-3) ADVANCED OFFICERS COURSE
1 hr. LeC.
Prerequisite: Permission of the Instructor. This course is designed to permit law enforcement personnel to be trained and/or study relevant topics within the field of Administration of Justice. (May be repeated for addi­tional credit with new content.) (Csu)

ADJ JUS 41 (3) ARMS AND FIREARMS
3 hrs. Cr. credit.
Prerequisite: Eng 28 or above strongly recommended. No felony convictions. Able to successfully participate in practical requirements of class. (Formerly Admjs 39) (Csu)

ADJ JUS 42 (1.5) ARMS AND FIREARMS
1.5 hrs. LeC.
Prerequisite: Eng 28 or better is recommended. No felony convictions. P.O.S.T. prerequisites. Designed to satisfy training standards as set forth by the Commission on Peace Officers Standards and Training (P.O.S.T.). Includes professional orientation, discretionary decision making, law, laws of arrest, laws of evidence, search and seizure and preliminary investigation overview. (Csu)

ADJ JUS 43 (5) RESERVE OFFICER LEVEL II MODULE B
3 hrs. LeC. 3 hrs. Lab.
Prerequisite: Eng 28 or better is recommended. Satisfac­ tion of class Adm Jus 39 and P.O.S.T. examinations. No felony convictions. Valid California driver's license. Designed to satisfy Reserve Officer Level II (Module B) training standards as set forth by the Commission on Peace Officers Standards and Training (P.O.S.T.).

ADJ JUS 44 (4) RESERVE OFFICER LEVEL I MODULE C
6 hrs. LeC.
Prerequisites: Eng 28 or higher, Satisfactory completion of Adm Jus 39 and Adm Jus 43, including P.O.S.T. examina­ tions. A basic overview course in commissioned version designed to prepare a student to be accepted by a law enforcement agency as a Module C Reserve Officer. (Nontransferrable, AA/AS degree only)

ADJ JUS 45 (9) PEACE OFFICER RESERVE ACADEMY
9 hrs. LeC.
Prerequisite: 11th grade reading/writing level, success­ ful completion of Adm Jus 39, P.E 340/10N recommended, no felony convictions and a valid California driver's license. Corequisite: Good physical condition required, application and oral interview. An inten­ sive course designed to prepare the student for place­ ment as a Level I Reserve within a law enforcement agency. The course combines Level II, Module B and Level I Module C (Adm Jus 43/Adm Jus 44) and complies with P.O.S.T. requirements. (Nontransferrable, AA/AS degree only)

AGRICULTURAL ENGINEERING TECHNOLOGY

AGT 28 (4) POWER EQUIPMENT OPERATION AND MAINTENANCE
3 hrs. LeC. 3 hrs. Lab.
Selection, operation, adjustment and the maintenance of wheel and track equipment commonly used in agriculture and industry. (Csu)

AGT 33A (5) FARM POWER
3 hrs. LeC. 6 hrs. Lab.
For the student with little or no automotive background. Design, construction and mechanical function of automotive engines including lubricating, cooling, fuel and electrical systems; clutch and an understanding of the basic sciences relevant to such topics as internal combustion and energy conversion. (Same as Auto Tech 51) (Csu)

AGT 33B (5) FARM POWER
3 hrs. LeC. 6 hrs. Lab.
Prerequisites: Ag 20 or 2 years of high school auto­ motive courses. Review and advanced study of the internal combustion engine and service procedures in the use of automotive machine shop tools and machines for rebuilding the engine. (Same as Auto Tech 55) (Csu)

AGT 34 (4) POWER TRANSMISSION SYSTEMS
3 hrs. LeC. 3 hrs. Lab.
Theory of operation and maintenance of power transmit­ ting devices, such as transmissions, clutches, hydro­ static drive elements, and differential drive trains used in both wheel and track type equipment. (Csu)

AGT 35 (3) FLUID POWER
2 hrs. LeC. 2 hrs. Lab.
(2 hrs. LeC. 2 hrs. Lab. (Same as Auto Tech 57) (Csu)

AGT 37 (3) SMALL DISK-TINE ENGINES
2 hrs. LeC. 2 hrs. Lab.
(Same as Auto Tech 59) (Csu)

AGT 39 (4) FUNDAMENTALS OF DIESEL POWER
3 hrs. LeC. 3 hrs. Lab.
The study of diesel engine theory, design, construction, and repair of heavy diesel power units. (Csu)

AGT 75 (5) BASIC SKILL SKILLS
3 hrs. LeC. (Same as Env Sci 75, Weld 75) (Nontransferrable, AA/AS degree only)

AGRICULTURE

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

AGT 5 (3) RAW AND ITS ENVIRONMENT
3 hrs. LeC.
(Same as Env Sci 5) (Csu, UC)

AGT 54 (2) ETNOLOGY
2 hrs. LeC. 2 hrs. Lab.
A basic study of customs with emphasis on classifica­ tion, anatomy and physiology. An insect and plant ecology. (Nontransferable, AA/AS degree only)

AGT 15 (1) PESTICIDE SAFETY
3 hrs. LeC. 3 hrs. Lab.
Pesticide safety training for employees who handle and use chemical pesticides. (Nontransferrable, AA/AS degree only)

AGT 20 (3) ANIMAL SCIENCE
3 hrs. LeC.
A survey of the sources of the world's supply of animal products. The distribution of and factors influencing domestic livestock animals in the United States. The origin, char­ acteristics, and adaptation of the important breeds and the influence of environment upon their development. Selection, feeding and management of sheep, swine and cattle on California farms. (Csu, UC)

AGT 21 (3) FEEDS AND FEEDING
3 hrs. LeC.
Prerequisite: Ag 20 or permission of the Instructor. A survey of specific classes of livestock nutrition as they are applied to livestock production. The composition and use of feeds and their relation to the feeding of farm animals. (2 hrs. LeC. 1 hrs. Lab.) (Nontransferable, AA/AS degree only)

AGT 22 (3) INTRODUCTION TO AGRICULTURAL ECONOMICS
3 hrs. LeC.
Introduction to the economic aspects of agricultural management. The role of agricultural resources in the economic growth. Survey of trade, policy, and marketing activities of agriculture. (Csu, UC)

AGT 23 (3) ANIMAL DISEASES
3 hrs. LeC.
The symptoms, diagnosis and treatment of animal dis­ eases. (Csu)

AGT 24 (3) HORSE HANDICRAFT
3 hrs. LeC.
Status of the horse industry; types and breeds; selec­ tion, care and management and economics of the light horses; their place and use in California and the United States. (Csu)

AGT 25 (3) AGRICULTURAL BUSINESS MANAGEMENT
3 hrs. LeC.
Changes occurring in agriculture, careers in commercial agricultural business and public agricultural service agencies, development and growth of farm-related indus­ tries, kind of agricultural businesses, operational characteristics of commercial agricultural industries. (Csu, UC credit limited. See a counselor.)

AGT 26 (3) AGRICULTURAL BUSINESS ORGANIZATION AND MANAGEMENT
3 hrs. LeC.
Prerequisite: Ag 25. Study of farm technological ad­ vantages, consumer demand and other such factors as determinants of growth, types and forms of agricul­ tural business organization. Farm and farm-related busi­ nesses considered from standpoint of primary functions, services and problems including investments, mortgage and working capital requirements, credit and collec­ tions, business with banks, failures and reorganization. Emphasis on California farm-related industries. (Csu, UC credit limited. See a counselor.)

AGT 27 (3) AGRICULTURAL SALES AND SERVICE MANAGEMENT
3 hrs. LeC.
Supervision of people who sell agricultural products and services. Selecting, training, directing and evaluating personal. Methods of payment, use of advertising, pro-motion, incentives and service. (Csu)

AGT 29 (3) 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 business and production. (Csu)

AGT 30 (3) FOOD AND FIBER IN A CHANGING WORLD
3 hrs. LeC.
Relating the role of agriculture and natural resources to society. Where do our food and fiber come from? How does agriculture affect the dynamics of our society? What are the future opportunities in agriculture now and in the future? (Csu)
AG 32 (3)  
IRRIGATION AND DRAINAGE  
2 Hrs. Lec. 2 Hrs. Lab.  
Prerequisite: Ag 40 or permission of the instructor. Fundamental principles and practices of irrigation, soil-water relationships, water measurement, methods of irrigation requirements, farm irrigation structures. Pumps and pumping problems and irrigation system design and management. Cultural practices, harvesting, grading and processing. Marketing, disease and pest control of California vegetable crops. (CSU)

AG 46A (2)  
VEGETABLE GARDENING — COLD WEATHER  
6 Hrs. Lab.  
Organic and inorganic production in vegetable gardening. Cultural practices, harvesting, grading and processing, marketing, disease and pest control of California vegetable crops. (CSU)

AG 46B (2)  
VEGETABLE GARDENING — WARM WEATHER  
6 Hrs. Lab.  
Organic and inorganic production in vegetable gardening. Cultural practices, harvesting, grading and processing, marketing, disease and pest control of California vegetable crops. (CSU)

AG 45 (5)  
VEGETABLE PRODUCTION  
3 Hrs. Lab.  
Prerequisite: Ag 40 or permission of the instructor. Principles involved in seasonal truck crop production, including the scope, value, harvesting, packaging and marketing of the major truck crops grown in California. (CSU)

AG 46 (5)  
ORNAMENTAL PLANT IDENTIFICATION AND MATERIALS  
5 Hrs. Lab.  
Identification, growth habits, culture and ornamental use of house plants, vines, groundcovers, annuals, perennials, shrubs native to the climate of the southern valleys of California. (CSU)

AG 47 (5)  
NURSERY PRACTICES  
2 Hrs. Lec. 3 Hrs. Lab.  
A general course in ornamental horticulture with emphasis on nursery operation. Includes nursery structures and layout, seeding, transplanting, potting, planting, pruning, fertilizing, irrigation and pest management. (CSU)

AG 48 (5)  
TREES, SHRUBS AND VINES  
5 Hrs. Lab.  
Selection, planting, training, pruning and cultural practices of trees, shrubs, and vines in California — including citrus and grapes. (CSU)

AG 49 (3)  
MEETS AND SOIL CONTROL  
3 Hrs. Lab.  
Common and noxious weeds of California, their identification, life history, and control. Chemicals and equipment used for weed control on cultivated land, in irrigation ditches, on the range, and on wasteland. Poisonous weeds, their effects and prevention. (CSU)

AG 51A (1)  
APPLIED CROP MANAGEMENT  
1 Hr. Lab.  
The study and evaluation of cropping and harvesting methods, and management practices during fall months. (CSU)

AG 51B (1)  
APPLIED CROP MANAGEMENT  
1 Hr. Lab.  
The study of field management practices during spring months. (CSU)

AG 51C (1)  
APPLIED CROP MANAGEMENT  
1 Hr. Lab.  
The study and evaluation of cropping methods and crop rotation practices. (CSU)

AG 51D (1)  
APPLIED CROP MANAGEMENT  
1 Hr. Lab.  
The study and evaluation of cropping methods for the Imperial Valley. (CSU)

AG 52 (3)  
PHYSIOLOGICAL EFFECTS OF ALCOHOL AND DRUGS  
3 Hrs. Lec.  
This 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 in simple terms how drugs act and why. The course will bring about an understanding of how drugs influence or cause problems. It will enable students to understand that both the internal and external environments have important effects on the well-being of the individual. (CSU)

AG 53 (3)  
GROUP LEADERSHIP AND GROUP PROCESS  
3 Hrs. Lec.  
Prerequisite: Ag 9/Psych 9 or permission of the instructor. 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 interactive, with role playing to plan and practice skills. Students will participate in exercises to incorporate new skills and theory. (CSU)

AG 54 (3)  
CELIBATE INTERVENTION AND REFERRAL TECHNIQUES  
3 Hrs. Lec.  
Prerequisite: Ag 9/Psych 9 or permission of the instructor. Techniques used for brief therapy crisis intervention, intake interviewing and referral will be studied and practiced. Special attention will be given to the process of intervention, admitting, and record- ing of information as it pertains to alcohol and drug abuse clients. Through an experiential format, participants will learn and practice skills in brief therapy, different levels of client communication and intake interviewing. (Same as Psy 55) (CSU)

AG 55 (3)  
PROGRAM MANAGEMENT TECHNIQUES  
3 Hrs. Lec.  
This course will introduce students to basic management principles as applied to Substance Abuse programs. Topics will include funding, budgeting and policy development as well as issues related to staff selection, supervision and program evaluation. (CSU)

AG 53A (1)  
STUDY OF DRUGS IN DRAINAGE  
1-3 Hrs. Lab.  
A variety of one-unit courses covering current specialized areas in alcoholism and drug abuse. As the field changes, the semester offerings will vary. Such topics as Women and Alcoholism, Alcoholism, Sexuality and Intimate Relationships, Cross-cultural Counseling Techni-
ANATOMY

ANATOMY AND PHYSIOLOGY FOR HEALTH OCCUPATIONS

3 hrs. Lec.

Introductory study of the structure and function of the human organism. Class is structured for health occupation students. It is not acceptable for premedical, pre-dental, pre-pharmacy or registered nursing students, and it is not open to students who have completed Anth 8 or Anth 10 with a grade of C or better. (Nontransferable, AAAS degree only.)

ANTH 8 (4) (CAN BIOL 10)

HUMAN ANATOMY

2 hrs. Lec. 6 hrs. Lab.

Prerequisites: High school biology with a grade of C or better or Zool 3 or a current California LW license. Systems of the human body and their interrelationships. (CSU) (UC credit limited. See a counselor.)

ANTH 10 (5) (CAN ANTH 1)

HUMAN ANATOMY & PHYSIOLOGY

3 hrs. Lec. 6 hrs. Lab.

Prerequisites: One year of high school chemistry and biology or one semester each at the college level or a current California LW license. A study of the structure and function of the human organism. Emphasis is on the circulatory, respiratory, excretory, nervous, reproductive, and digestive systems. (CSU) (UC credit limited. See a counselor.)

ANTHRO 1 (3) (CAN ANTH 2)

PHYSICAL ANTHROPOLOGY

3 hrs. Lec.

The process and cause of human evolution; mankind's place in nature; the study of primates; the biological variability of living peoples and their genetic background. (UC, GC)

ANTHRO 2 (3) (CAN ANTH 4)

CULTURAL ANTHROPOLOGY

3 hrs. Lec.

A study of culture and its relationships to biology and to nature. Emphasizes the origins and evolution of culture, and the part that culture assumed in human biological evolution. Examines types of social organizations and economic systems, religions, and arts. (UC, GC)

ANTHRO 3A (3)

INTRODUCTION TO ARCHAEOLOGICAL SITES SURVEYING

2 hrs. Lec. 5 hrs. Lab.

Historical development of archaeology and the importance of site surveying; archaeological theory - Middle Range Theory; methods in site surveying; types of sites; laboratory preparation; use and care of field equipment. (CSU)

ANTHRO 3B (3)

INTRODUCTION TO ARCHAEOLOGICAL EXCAVATIONS

2 hrs. Lec. 5 hrs. Lab.

Prerequisites: Anthro 3A and Anthro 3C. Determine a site to be excavated; laws pertaining to excavations; laying out a site with alidade and rod; testing; pit versus trench excavations; stratigraphy; record keeping; screening and collecting; photography; preparation of laboratory and museum materials; pollen, soils, and C 14 tests. (CSU)

ANTHRO 3C (5)

ADVANCED ARCHAEOLOGICAL SURVEY

2 hrs. Lec. 5 hrs. Lab.

Prerequisite: Anthro 3A. Conduct independent surveys, or lead small survey crew; device research designs; write reports from field notes, maps, photographs and prior records; conduct record and literature searches and catalogue specimens. (CSU)

ANTHRO 3D (3)

ADVANCED ARCHAEOLOGICAL EXCAVATIONS

2 hrs. Lec. 5 hrs. Lab.

Prerequisites: Anthro 3A. Design a field excavation project; select proper equipment; organize a field crew. Conduct research; make and conserve project area; pit or trench technique; conduct the dig; screening, selecting, and bagging artifacts and natural samples. Laboratory analysis and curation; photography; dating; report writing are included. (CSU)

ANTHRO 4 (3) (CALIFORNIA INDIANS

3 hrs. Lec.

The geography of California; tribal and linguistic regions; native agriculture and diverse economic areas; Sacramento and San Joaquin Valleys; the Delta; transverse ranges; foothill country; Coast Range; Peninsular Ranges; the deserts; influence of environment on cultural developments; influences of Western civilization on Native life. (CSU, UC)

ANTHRO 6 (3) (INDIANS OF NORTH AMERICA

3 hrs. Lec.

Early migration across Beringia to the New World; demographic and ecological of the American cultures in Alaska, Canada and the United States. Effect of European contact; reactionary movements today. (CSU, UC)

ANTHRO 9 (3) (INDIANS OF THE SOUTHWEST

3 hrs. Lec.

Geography and ecology of the Southwest; Early man migrations; desert culture; growing influence of Nosedecamor; development of Anasazi, Hohokam and Mogollon cultures; Classic civilizations and engineering feats; decline and the origins of Zuni, Hopi, Navajo, and Apache cultures. (CSU, UC)

ANTHRO 16A (3)

PREFHISTORIC CERAMICS

1 hr. Lec. 2 hrs. Lab.

Traces of origins and developments of ceramics in the Old and New Worlds. Emphasis on the materials, techniques and ceramics products of the Southern California Indians, especially the Lower Colorado River groups. (CSU, UC)

ANTHRO 16B (3)

PREHISTORIC POTTERY

1 hr. Lec. 2 hrs. Lab.

Prerequisite: Anthro 16A. Advanced study of prehistoric pottery composition and forms; various firing techniques using pit construction; decorative motifs used by the Yuman and Yoshone cultures. (CSU, UC)

ANTHRO 20A (5)

ART HISTORY AND APPRECIATION OF ART

2 hrs. Lec.

A survey of the developments in art in painting, sculpture, architecture, and the minor arts from the birth of art to the Renaissance. (CSU, UC)

ANTHRO 20B (3)

ART HISTORY AND APPRECIATION OF ART

3 hrs. Lec.

A continuation of Art 20A extending from the Renaissance to contemporary times. May be taken before or concurrently with Art 20A. (CSU, UC)

ANTHRO 20C (3)

ART HISTORY AND APPRECIATION OF ART

3 hrs. Lec.

Art 4 is a broad analytical survey of painting, sculpture and architecture from 1900 up to the present. Emphasis is placed upon the development of styles of painting and the relationship to each other. (CSU, UC)

ANTHRO 20D (3)

WOMEN ARTISTS

3 hrs. Lec.

Prerequisite: Art 20A or 20B. A survey of the great Women Artists of history from the Ancient World through the Twentieth Century. Some of the artists to be discussed are: Elizabeth Siran, Judith Leyster, Elizabeth Vigee Lebrun, Mary Cassatt, Katsche Kollwitz, Frida Kahlo, Georgia O'Keefe. Computerized. The course will also address the special issues and problems concerning the study of women artists, past and present. (CSU, UC)

ANTHRO 20E (3)

WATERCOLOR PAINTING

2 hrs. Lec. 4 hrs. Lab.

The study of watercolor painting with emphasis upon color, composition and pictorial expression. Exploration of various techniques employing the medium of watercolor. (CSU) (UC credit limited. See a counselor.)

ANTHRO 20F (3)

WATERCOLOR PAINTING

2 hrs. Lec. 4 hrs. Lab.

Prerequisite: Art 20A. A continuation of Art 25A with emphasis on the potter's wheel. (CSU) (UC credit limited. See a counselor.)

ANTHRO 20G (3)

WATERCOLOR PAINTING

2 hrs. Lec. 4 hrs. Lab.

Prerequisite: Art 20A. An introduction to watercolor; basic methods of forming, decorating, glazing and firing. (CSU) (UC credit limited. See a counselor.)

ANTHRO 20H (3)

CERAMICS

2 hrs. Lec. 4 hrs. Lab.

Prerequisite: Art 20A. An introduction to ceramics; basic methods of forming, decorating, glazing and firing. (CSU) (UC credit limited. See a counselor.)

ANTHRO 20I (3)

CERAMICS

2 hrs. Lec. 4 hrs. Lab.

Prerequisite: Art 20A. A continuation of Art 25A with emphasis on the potter's wheel. (CSU) (UC credit limited. See a counselor.)

ANTHRO 20J (3)

LIFE DRAWING

1 hr. Lec. 5 hrs. Lab.

Prerequisites: Art 20A and 20B with a grade of C or better. Many types of drawing and painting techniques are used to further the student's skill and development of visualization by drawing from the human figure. (CSU) (UC credit limited. See a counselor.)

ANTHRO 20K (3)

LIFE DRAWING

6 hrs. Lab.

Prerequisite: Art 25A. A continuation of Art 25A. Art 25B includes exploration of painting techniques using varied media. (CSU) (UC credit limited. See a counselor.)
ART 28 (5) TECHNICAL CERAMICS
2 Hrs. Lec. 3 Hrs. Lab.
Prerequisite: Art 23C or permission of the instructor.
A study of clays and their use in forming and sculpting clay bodies and glazes. Specific problems of glaze calculation and glaze application. (CSU) (UC credit limited. See a counselor.)

ART 33 (3) GALLERY DISPLAY
1 Hr. Lec. 2 Hrs. Lab.
Theories, techniques and practices of art gallery exhibition and management, including experience in the planning, installation and hanging of art and exhibiting a formal or informal exhibition from beginning to end; methods of promoting shows, communicating with artists, unpacking and returning exhibitions. (CSU)

ART 40 (4) 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 develop individual application of techniques. Initial exercises in color usage and structure of the painting. Suggestions and evaluation of student work will take place on an individual basis. (CSU) (UC credit limited. See a counselor.)

ASTRONOMY

ASTRONOMY 21 (3) PRINCIPLES OF ASTRONOMY
3 Hrs. Lec.
Prerequisites: Math X or equivalent with grade of "C" or higher. An introduction to the principles of astronomy including physical evolution, tools of the astronomer, the sky, the solar system, the stars, the galaxies, and the universe. (CSU, UC)

AUTO BODY 70 (5) AUTO REPAIRING AND PAINTING
3 Hrs. Lec. 6 Hrs. Lab.
Prerequisite: Tech 30 or permission of the instructor. The study of body repair and spot 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.
Prerequisite: Tech 70 or permission of the instructor. Covers auto body repairing and repainting. Use of modern tools and equipment, step-by-step procedures for handling typical jobs. (CSU)

AUTO BODY 72 (5) AUTO AND LIGHT TRUCK MAJOR COLLISION REPAIRING
3 Hrs. Lec. 6 Hrs. Lab.
Prerequisites: Auto Body 71 and/or concurrently Veld 30 and 35. Covers major collision repair including extensive frame and undercarriage damage, using modern equipment with step-by-step procedures. (CSU)

AUTOMOTIVE TECHNOLOGY

AUTOMOTIVE TECHNOLOGY 50 (5)
Some courses in the Field of Automotive Technology are offered on a part-time basis only. Students should keep this in mind as they plan their long-range programs of study with the assistance of their instructors. Enrollment in automotive technology courses requiring a prerequisite is not allowed unless the prerequisite automotive technology course is passed with a "C" grade or better.

AUTO TECH 51 (5) ENGINE TECHNOLOGY
3 Hrs. Lec. 6 Hrs. Lab.
For the student with little or no internal combustion engine background, the study of engine construction and mechanical function of internal combustion engines including lubricating, cooling, fuel and electrical systems; and an understanding of the basic sciences relevant to such topics as internal combustion and energy conversion. (Same as Vet 35A) (CSU)

AUTO TECH 52 (5) MINERAL TRANSMISSIONS AND POWER TRAINS
2 Hrs. Lec. 3 Hrs. Lab.
Design, construction and mechanical function of clutches, manual transmissions, overdrives and power transmitting mechanisms. (CSU)

AUTO TECH 53 (5) BRAKES AND SUSPENSION
3 Hrs. Lec. 6 Hrs. Lab.
Study of manual and power braking systems, wheel alignment, spring suspension, tires, tire trueing, wheel balancing, and wheel bearings. Diagnosis and service procedures on repair jobs. (CSU)

AUTO TECH 54 (5) CARBURETORS, EMISSIONS, INJECTION AND EXHAUST SYSTEMS
3 Hrs. Lec. 3 Hrs. Lab.
Advanced study of automotive fuel systems (carburetors, fuel pumps, intake manifolds, exhaust system and emission controls). Basic diagnosis and service procedures on systems. (CSU)

AUTO TECH 55 (5) ADVANCED AUTOMOTIVE GRADE AND LIGHT DUTY DIESEL ENGINE REBUILDING
3 Hrs. Lec. 6 Hrs. Lab.
Prerequisites: Auto Tech 51 or two years of high school auto mechanics. Review and advanced study of the internal combustion engine and service procedures in the use of automotive shop tools and machines for rebuilding the engine. (Same as Vet 33B) (CSU)

AUTO TECH 56 (5) DIAGNOSIS AND REPAIR OF AUTOMOTIVE SYSTEMS
2 Hrs. Lec. 3 Hrs. Lab.
Prerequisites: Auto Tech 54 and Auto Tech 60. Trouble shooting the various components of the automobile using various test instruments. To include the study and servicing of various automotive shop devices. (CSU)

AUTO TECH 57 (3) FLUID POWER
2 Hrs. Lec. 2 Hrs. Lab.
A study of the behavior and laws governing fluids. The design and function of hydraulic and pneumatic components, seals, fluid types, circuits and symbols. Latest developments in the control and transfer of energy and its relationship to automotive technology. (Same as Agriculture 290B) (CSU)

AUTO TECH 58 (5) AUTOMATIC AIR CONDITIONING
2 Hrs. Lec. 3 Hrs. Lab.
The history, design, construction and mechanical function of automatic air-conditioning equipment, including tune-up and major repair of the electrical and mechanical systems. (Same as Vet 37C) (CSU)

AUTO TECH 59 (5) SMALL GASOLINE ENGINES
3 Hrs. Lec. 6 Hrs. Lab.
The history, design, construction and mechanical function of small gasoline engines and their related electrical systems. (Same as Vet 36B) (CSU)

AUTO TECH 60 (5) ELECTRICAL, STARTING, CHARGING, IGNITION AND RELATED ELECTRICAL SYSTEMS
3 Hrs. Lec. 6 Hrs. Lab.
Advanced study of automotive electrical systems. Basic diagnosis and service procedures on the various systems. (CSU)

AUTO TECH 61A (5) AUTOMATIC TRANSMISSIONS
3 Hrs. Lec. 6 Hrs. Lab.
Design, construction, mechanical and hydraulic function and repair 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 four 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 transmissions. Applied shop practice for advanced students who wish to refine technical skills prior to obtaining employment in the industry. (CSU)

AUTO TECH 65 (5) BASIC MACHINE SHOP TECHNOLOGY
2 Hrs. Lec. 3 Hrs. Lab.
Prerequisites: Auto Tech 51, Auto Tech 52, and Auto Tech 60. 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, and hand tool and machine 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.
Prerequisites: Auto Tech 51, Auto Tech 52, Auto Tech 60. Advanced machine shop technology course. (CSU)

BIO 2 (4) PRINCIPLES OF BIOLOGICAL SCIENCE
3 Hrs. Lec. 3 Hrs. Lab.
Not open to students with credit in Zoology or Botany. A consideration of basic biological phenomena. Designed for those students who intend to take only one semester of general biological science. May be combined with Physical Science 25 for a year course in the basic principles of natural science. (CSU) (UC credit limited. See a counselor.)

BIO 21 (5) GENERAL MICROBIOLOGY
3 Hrs. Lec. 6 Hrs. Lab.
Prerequisites: One year each of high school chemistry and biology or one semester each at the college level or equivalent. California LWN license. Provides students with fundamental concepts of the structure and physiology of non-disease and disease producing microorganisms with particular attention to bacteria. Basic techniques for culturing, staining, counting and identifying micro-organisms. Designed to meet the requirement to enter one of the medical fields as well as general education. (CSU, UC)

BIO 22 (4) MICROBIOLOGY FOR ADVANCED PLACEMENT OF NURSING STUDENTS
2 Hrs. Lec. 6 Hrs. Lab.
Prerequisites: One year of high school chemistry and biology or one semester each at the college level or current California LWN 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 non-disease and disease producing organisms with less emphasis on non-disease producers than Bio 21. Basic techniques for culturing, staining, and identifying bacteria. (Vocational Applicable)

BUS 1A (4) PRINCIPLES OF ACCOUNTING
4 Hrs. Lec. 1 Hr. Lab.
Prerequisites: A satisfactory score on the mathematics placement test or completion of Math 51 with a grade of "C" or better. Introduction to the theory, practices, and principles of accounting as they relate to service
BUS 10 (3) PRINCIPLES OF ACCOUNTING 3 hrs. Lec.
Prerequisite: Satisfaction of Bus 1A. This course introduces the student to the accounting cycle, including the study of financial statements and the preparation of financial reports. (CSU, UC)

BUS 12 (3) PRINCIPLES OF MARKETING 3 hrs. Lec.
A course of study designed for students who are interested in the field of marketing and the application of marketing principles to business and industry. (CSU, UC)

BUS 13 (3) APPLIED BUSINESS LAW 3 hrs. Lec.
A one-semester course covering the law of contracts, sales, agencies, partnerships, corporations, and other business entities. (CSU, UC)

BUS 14 (3) MANAGEMENT CONCEPTS OF SUPERVISION 3 hrs. Lec.
A study of the supervisory management concepts that include definition of supervision and management, description of organizational roles and responsibilities, and the supervisory's role in managing organizational resources, staffing, methods of performance appraisal, problem-solving and decision-making techniques, motivation, conflict resolution, compensation, leadership, communication, health and safety, training and development, labor relations, discipline, and how to cope with change. (CSU)

BUS 15 (4) EXTRAMURAL CALCULUS WITH APPLICATIONS 4 hrs. Lec. (Same as Math 15) (CSU) (UC credit limited. See a counselor.)

BUS 16 (3) RECORDS MANAGEMENT 3 hrs. Lec.
Prerequisite: Successful completion of Bus 1A. This course introduces the student to the preparation and processing of records in business and industry. (CSU)

BUS 20 (3) SHORTHAND THEORY-SPEEDBUILDING 2 hrs. Lec. 3 hrs. Lab.
Prerequisite: Ability to keyboard 20 wpm or concurrently enrolled in Bus 20. A basic course in Gregg Shorthand. Theory and dictation practice. Designed for the needs of professional secretaries. (Formerly Bus 31B) (CSU)

BUS 25AB (3-3) KEYBOARDING: SPEED AND ACCURACY 2 hrs. Lec. 3 hrs. Lab.
Prerequisite: Bus 20 or the ability to type 20 wpm. This course provides the opportunity to learn about and experience, in mock form, the three sections of the Certified Professional Secretary examination. Discussion of eligibility requirements, efficient test-taking principles, the application process, and study aids will be part of the course. (Nondegree Applicable)

BUS 26 (3) BUSINESS LAW 3 hrs. Lec.
Prerequisite: Bus 1A or permission of the instructor. A course of study designed to acquaint students with the legal aspects of business law, including the legal aspects of business organizations, taxation, and the legal forms of business organization. (CSU) (UC credit limited. See a counselor.)

BUS 28 (3) CERTIFIED PROFESSIONAL SECRETARY I 3 hrs. Lec.
Prerequisite: Must key 50 characters per minute. Bus 39 or permission of the instructor. This course provides the opportunity to learn about and experience, in mock form, the first three sections of the Certified Professional Secretary examination. Discussion of eligibility requirements, efficient test-taking principles, the application process, and study aids will be part of the course. (Nondegree Applicable)

BUS 29A (3) BUSINESS MICROCOMPUTER SOFTWARE 1-3 hrs. Lab.
These variable-length courses are designed to meet the occupational needs of those who will be using microcomputers. It provides modeling/interactive instruction in the use of the computer operation software and business application software such as, electronic spreadsheets, data management, word processing, and fundamentals of CBASE language-designed programs. (CSU)

BUS 29B (3) CERTIFIED PROFESSIONAL SECRETARY II 3 hrs. Lec.
Prerequisite: Must key 50 characters per minute, Bus 39 or permission of the instructor. This course provides the opportunity to learn about and experience, in mock form, the first three sections of the Certified Professional Secretary examination. Discussion of eligibility requirements, efficient test-taking principles, the application process, and study aids will be part of the course. (Nondegree Applicable)

BUS 31AC (3-3-3) SHORTHAND THEORY-SPEEDBUILDING 2 hrs. Lec. 3 hrs. Lab.
Prerequisite: Ability to keyboard 20 wpm or concurrently enrolled in Bus 20. A basic course in Gregg Shorthand. Theory and dictation practice. Designed for the needs of professional secretaries. (Formerly Bus 31B) (CSU)
CIS 10 (3) PROGRAMMING IN COBOL I
3 Hrs. Loc.
Prerequisite: CIS 1, a basic course in the programming of electronic digital computers to prepare programmers and students of closely related occupations for employment in business and industry. Course covers problem of data processing, characteristics of computers and computer programming. (Formerly Bus 52) (CIS) (UC credit limited. See a counselor.)

CIS 11 (3) PROGRAMMING IN COBOL II
3 Hrs. Loc.
Prerequisite: CIS 10. A second semester course in electronic digital computer programming designed for student achievement of technological proficiency input and output devices, machine-aided coding, program optimizing, basic file maintenance, computer problem planning and report writing. (Formerly Bus 55) (CIS) (UC credit limited. See a counselor.)

CIS 14 (3) PROGRAMMING IN FORTRAN
3 Hrs. Loc.
(Course number Math 67) (Formerly Bus 55) (CIS) (UC credit limited. See a counselor.)

CIS 22 (3) MICROCOMPUTER OPERATIONS: BOOKKEEPING AND ACCOUNTING
2 Hrs. Lab.
Corequisite: Enrollment in a course requiring computer support. A hands-on lab class which supports those courses requiring computer completed assignments. The student will be involved using word processing, programming, integrated software packages or decision support applications. (Formerly Bus 56AC) (CIS) (UC credit limited. See a counselor.)

CIS 23 (5) MICROCOMPUTER OPERATIONS: HARDWARE AND SOFTWARE
1 Hr. Loc.
An introductory course designed to familiarize computer users with the basic microcomputer system components, essential disk operating system commands, and computer terminal knowledge. The student will become acquainted with the types of software typically used on microcomputer systems. (Formerly Bus 59) (CIS)

CIS 25 (5) MICROCOMPUTER OPERATING SYSTEMS: DOS
1 Hr. Loc.
Designed to familiarize computer users with the system software commands that control the computer. These commands cover management of internal communications, error checking, memory usage, data storage, data retrieval, data deletion and device configuration. (CIS)

CIS 30A (1) WORD PROCESSING: WORDPERFECT I
1 Hr. Loc.
Hands-on practice with WordPerfect WORD PROCESSING software on the microcomputer. The course is designed for beginners and will focus on document creation and basic editing features including line and page formatting, block and move, spell check and thesaurus. (CIS)

CIS 30B (1) WORD PROCESSING: WORDPERFECT II
1 Hr. Loc.
Prerequisite: 35 wpm typing speed. Hands-on practice with WordPerfect WORD PROCESSING software on the microcomputer. (CIS)

CIS 30C (1) SPREADSHEET: LOTUS 123
1 Hr. Loc.
Prerequisite: CIS 25 or permission of the instructor. This course is designed to help students learn the Lotus 123 spreadsheet program. In addition, the course concentrates on data entry and editing features including macros, sort, merge, split screen, and line draw. (CIS)

CIS 35A (1) SPREADSHEET: LOTUS 123
1 Hr. Loc.
Prerequisite: CIS 25 or permission of the instructor. A sequence to the CIS 35A course. This course develops expertise in work sheet applications, teaches use of graphic presentations in work sheets, develops database use in spreadsheets and develops use of functions and macros. (CIS)

CIS 40A (1) DATA BASE DESIGN
1 Hr. Loc.
Prerequisite: CIS 1 or CIS 23 or permission of the instructor. A course designed to present the basic data base concepts and to have the student become acquainted with business data base applications and their implementation. (CIS)

CIS 41 (3) ELEMENTARY STUDENT PROGRAMS AND SERVICES
1 Hr. Loc.
Understanding Exceptional Students
2 Hrs. Loc.
Prerequisite: Psych 20/ECE 20 or Psych 14. A psychology course designed to familiarize students with individuals who are: (1) learning disabled, (2) visually handicapped, (3) speech impaired, (4) hearing impaired, (5) orthopedically impaired, (6) emotionally impaired, (7) physically impaired, or (8) mentally impaired. (CIS)

CIS 50 (1) PERSONAL AND SOCIAL ADJUSTMENT FOR THE PHYSICALLY LIMITED
1-4 Hrs. Loc.
This course is designed to help the physically limited student for full or adaptive participation in college community activities, academic, social, vocational, and environmental. (CIS)

CIS 51 (1) PERSONAL AND SOCIAL ADJUSTMENT FOR THE PHYSICALLY LIMITED
1-4 Hrs. Loc.
This course is designed to provide academic support services to the physically limited students who are taking classes in the area of natural sciences, and math; behavioral and social science area; humanities, fine arts and foreign language area; English and speech area; and vocational-occupational area. In addition, the course is designed to assist students in developing their basic skills. (Nondegree Applicable)

PL 1 (3) BEGINNING LANGUAGE FOR THE DEAF
5 Hrs. Loc.
Prerequisite: Completion of POS 10 with a "C" grade or higher, or permission of the instructor. This course is designed to provide students with the basic communication skills necessary to become involved in educational and social situations. (CIS)
PL 15A (4) COMMUNICATION SKILLS FOR PL STUDENT
4 hrs. Lab. 1 hr. Lab.
Prerequisite: Need for basic instruction based on placement tests and individual interview. A course at the beginning level for the physically limited student needing basic instruction in comprehension, vocabulary, sentence structure, and study skills. Emphasis will be on word attack, word recognition, comprehension, contextual clues, parts of speech, basic sentence structure, vocabulary building, and study skills related to reading and writing communication. (Kondregke Applicable)

PL 15B (4) COMMUNICATION SKILLS FOR THE PL STUDENT
4 hrs. Lab. 1 hr. Lab.
Prerequisite: Successful completion of PL 15A with reading and writing scores below level required for an appropriate reading or writing class. A course at the beginning level for the physically limited student needing basic instruction in comprehension, vocabulary, sentence structure, and study skills. Emphasis will be on word attack, word recognition, comprehension, contextual clues, parts of speech, basic sentence structure, vocabulary building, and study skills related to reading and writing communication. (Kondregke Applicable)

PL 25ABCD (2-2-2-2) TACTILE ART FOR THE PHYSICALLY LIMITED
4 hrs. Lab.
This course is designed to enrich the aesthetic experience of the physically limited. Students will explore various art media and methods. (Kondregke Applicable)

PL 26ABCD (1-1-1-1) GENERAL AND APPLIED MUSIC FOR THE VISUALLY HANDICAPPED
2 hrs. Lab.
A course to provide experience with general music in terms of listening skills, elements, basic structure and style. Application of skills involving sensitivity to rhythm, meter, structural elements, individual and group participation in singing and in rhythmic accompaniment. Course designed for the visually handicapped. (Kondregke Applicable)

PL 27ABCD (2-2-2-2) CURRENT ISSUES
2 hrs. Lab.
This course develops a set of skills that will improve the ability to comprehend, analyze and apply conversational techniques to current issues. (Kondregke Applicable)

PL 33 (3) INTRODUCTION TO AUDIOLOGY
3 hrs. Lab. 1 hr. Lab.
This course introduces the student to the science of hearing, fundamentals of acoustics as they apply to audiometric testing, basic anatomy and physiology of the hearing mechanism, pathologies causing impaired hearing, and the role of the audiometrician, nurse-audiologist and speech-hearing therapist in the total conservation of hearing program. (CSU)

PL 35 (3) COMPUTER ACCESS EVALUATION
1 hr. Lab.
Prerequisite: A student must be eligible for services and instruction from the Disabled Student Programs and Services through appropriate verification of a primary disability by certified personnel and be able to benefit from the programs and services offered by the High Tech Center. This basic instruction 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. (Kondregke Applicable)

PL 36 (1) ADAPTED KEYBOARDING
1 hr. Lab.
Prerequisite: A student must be eligible for services and instruction from the Disabled Student Programs and Services through appropriate verification of a primary disability by certified personnel and be able to benefit from the programs and services offered by the High Tech Center. This course is designed to teach keyboarding basics to disabled students who must use adaptive learning technologies for successful access to the keyboard or screen and therefore unable to complete successfully in mainstream typing classes. (Kondregke Applicable)

PL 37 (3) COMPUTER ACCESS I
2 hrs. Lab.
Prerequisite: A student must be eligible for services and instruction from the Disabled Student Programs and Services through appropriate verification of a primary disability by certified personnel and be able to benefit from the programs and services offered by the High Tech Center. PL 56 is required if a student does not have adequate touch typing skills (approximately 20 wpm). Designed for students with visual, physical, language impediment, learning disabilities or deafness. This course provides training in the use of computer access technologies which enhance a disabled student's ability to access and use microcomputers. (Kondregke Applicable)

PL 38 (2) COMPUTER ACCESS II
1 hr. Lab. 2 hrs. Lab.
Prerequisite: A student must be eligible for services and instruction from the Disabled Student Programs and Services through appropriate verification of a primary disability by certified personnel and be able to benefit from the programs and services offered by the High Tech Center. Successful completion of PL 37 or Instructor approval required. This course is designed for disabled students who have successfully completed Computer Access I. Students will enhance their computer access skills through the completion of assignments and/or projects. (Kondregke Applicable)

PL 39 (3) COMPUTER ACCESS PROJECTS
4 hrs. Lab.
Prerequisite: A student must be eligible for services and instruction from the Disabled Student Programs and Services through appropriate verification of a primary disability by certified personnel and be able to benefit from the programs and services offered by the High Tech Center. Instructor permission is required. The course is designed for students with a disability who require access to specialized adaptive technologies in order to complete assignments for other classes in which they are concurrently enrolled. (Kondregke Applicable)

PL 40 (3) INTRODUCTION TO RESIDENTIAL SERVICES SPECIALIST
3 hrs. Lab.
Prerequisite: A student must be enrolled in a residential program at the High Tech Center. This course is designed to give the student an understanding of the characteristics of the developmentally disabled population. Basic philosophical and legal issues, an investigation of the characteristics and application of various approaches. Application of the characteristics of the developmentally disabled to social interaction and other life skills. (Kondregke Applicable)

PL 50 (3) APPLIED MATHEMATICS
3 hrs. Lab.
Prerequisite: Permission of the instructor. Enrollment is limited to students who are not currently enrolled in a mathematics course at the high school level. This course is designed to teach basic mathematical principles and the use of mathematical techniques to individuals with learning disabilities and other physical disabilities. Credit cannot be repeated. (Kondregke Applicable)

PL 51 AB (1-1-1-1) HISTORY OF WORLD DRAMA
3 hrs. Lab.
This course will increase the student's insights, skills, and disciplines in the presentation of drama. Study of drama and the use of theatre as tools for socialization, recreation, and creative expression. The value of play for development. The study of plays in history, and the role of the playwright and director. (CSU, UC)

PL 51 AB (1-1-1-1) HISTORY OF WORLD DRAMA
3 hrs. Lab.
This course will increase the student's insights, skills, and disciplines in the presentation of drama. Study of drama and the use of theatre as tools for socialization, recreation, and creative expression. The value of play for development. The study of plays in history, and the role of the playwright and director. (CSU, UC)

PL 54 (3) MUSICAL APPLAUDS
3 hrs. Lab.
This course is designed to teach the student the elements of music including musicianship, theory, sight reading, music history, and the ability to create musical pieces. (Kondregke Applicable)

PL 55 (3) COMPUTER ACCESS III
1 hr. Lab.
Prerequisite: A student must be eligible for services and instruction from the Disabled Student Programs and Services through appropriate verification of a primary disability by certified personnel and be able to benefit from the programs and services offered by the High Tech Center. PL 54 is required if a student does not have adequate touch typing skills (approximately 20 wpm). Designed for students with visual, physical, language impediment, learning disabilities or deafness. This course provides training in the use of computer access technologies which enhance a disabled student's ability to access and use microcomputers. (Kondregke Applicable)

PL 56 (3) COMPUTER ACCESS IV
1 hr. Lab.
Prerequisite: A student must be enrolled in a residential program at the High Tech Center. This course is designed to give the student an understanding of the characteristics of the developmentally disabled population. Basic philosophical and legal issues, an investigation of the characteristics and application of various approaches. Application of the characteristics of the developmentally disabled to social interaction and other life skills. (Kondregke Applicable)

PL 58 (3) HISTORY OF WORLD DRAMA
3 hrs. Lab.
This course will increase the student's insights, skills, and disciplines in the presentation of drama. Study of drama and the use of theatre as tools for socialization, recreation, and creative expression. The value of play for development. The study of plays in history, and the role of the playwright and director. (CSU, UC)

PL 59 (3) HISTORY OF WORLD DRAMA
3 hrs. Lab.
This course will increase the student's insights, skills, and disciplines in the presentation of drama. Study of drama and the use of theatre as tools for socialization, recreation, and creative expression. The value of play for development. The study of plays in history, and the role of the playwright and director. (CSU, UC)

PHYS 20AB (1-1-1-1) BEHAVIORAL AND PERFORMANCE
2 hrs. Lab. 1 hr. Lab.
Prerequisite: Permission of the instructor. Enrollment contingent upon participation in campus major dramatic production. Maximum credit 1 unit per quarter for four semesters. Hours to be arranged. (CSU, UC) credit limited. See a counselor.)

ECE 20 (3) DEVELOPMENTAL PSYCHOLOGY OF CHILDREN
3 hrs. Lab.
A study of the developmental stages of children from conception through adolescence including the principle theories of development and their application. (Same as Psych 20) (CSU, UC) credit limited. See a counselor.)

ECE 21 (3) EARLY CHILDHOOD SOCIALIZATION: CHILDREN, FAMILY AND COMMUNITY
3 hrs. Lab.
Study of the child in the family and community in relation to social, cultural, economic, ethnic, and geographic influences on his/her growth and development. Community resources and as they relate to the education, health, welfare, recreational and other activities of the child. (Same as Psych 21) (CSU, UC)

ECE 22 (3) ADVANCED DEVELOPMENTAL PSYCHOLOGY AND OBSERVATION
3 hrs. Lab.
Advanced study of the principle theories of developmental psychology, including the study of assessment and observation as tools for understanding behavior and development. (Same as Psych 22) (CSU, UC)

ECE 23 (3) EARLY CHILDHOOD CURRICULUM I
3 hrs. Lab.
A study of preschool curriculum and its application in the preschool environment. Students will learn to develop and write creative lesson plans which incorporate developmental goals. Implementation of lesson plans at local preschools is required. (CSU, UC)

ECE 24 (3) EARLY CHILDHOOD CURRICULUM II
3 hrs. Lab.
A study of preschool curriculum and its application in the preschool environment. Students will learn to develop and write creative lesson plans which incorporate developmental goals. Implementation of lesson plans at local preschools is required. (CSU, UC)

ECE 25 (3) INTERMEDIATE ACTING
1 hr. Lab. 3 hrs. Lab.
Prerequisite: ECE 20AB. A continuation of ECE 20AB with further emphasis on fundamental acting skills. Laboratory hours to be arranged. (CSU, UC) credit limited. See a counselor.)

ECE 26 (3) INTRODUCTION TO THEATER PRODUCTION
1 hr. Lab. 4 hrs. Lab.
Prerequisite: ECE 20AB. This course explores the production techniques and acting skills needed to work on the production team of a major theatrical production. Laboratory hours to be arranged. (CSU, UC) credit limited. See a counselor.)
CHAPTER 1 - INTRODUCTION TO EMT/EMT-B \n
1. The student must have completed an EMT program and be certified in California. (CSU) 

2. Prerequisites: Certification as an EMT-B or completion of the EMT-B course. 

3. This course will provide an introduction to the role and responsibilities of the EMT-B, including the application of emergency medical theory and practice to the field of emergency medical services. 

4. The course will also provide an introduction to the history and development of emergency medical services, including the role of the EMT-B in the provision of emergency medical care. 

5. The course will cover topics such as patient assessment, communication, and the use of medical equipment and supplies. 

6. The course will also cover the role of the EMT-B in the chain of command and the importance of communication and coordination with other healthcare professionals. 

7. The course will also cover the importance of continuing education and professional development for the EMT-B. 

CHAPTER 2 - ADVANCED MANAGEMENT FUNCTIONS FOR THE EMERGENCY MEDICAL SERVICES PROFESSIONAL \n
1. This course will cover the advanced management functions for the emergency medical services professional. 

2. The course will cover topics such as emergency medical jurisprudence, emergency medical administration, and emergency medical leadership. 

3. The course will also cover the role of the emergency medical services professional in the development and implementation of policies and procedures. 

4. The course will also cover the role of the emergency medical services professional in the provision of emergency medical care, including the role of the EMT-B in providing advanced care. 

5. The course will also cover the importance of continuing education and professional development for the emergency medical services professional. 

6. The course will also cover the role of the emergency medical services professional in the provision of emergency medical care, including the role of the EMT-B in providing advanced care. 

CHAPTER 3 - ADVANCED CARDIOVASCULAR LIFE SUPPORT \n
1. This course will cover the advanced cardiovascular life support (ACLS) skills and techniques. 

2. The course will cover topics such as advanced airway management, advanced hemodynamic monitoring, and advanced cardiac pacing. 

3. The course will also cover the role of the EMT-B in providing advanced care, including the role of the EMT-B in providing advanced airway management and advanced hemodynamic monitoring. 

4. The course will also cover the importance of continuing education and professional development for the EMT-B. 

5. The course will also cover the role of the EMT-B in providing advanced care, including the role of the EMT-B in providing advanced airway management and advanced hemodynamic monitoring. 

CHAPTER 4 - INJURY PREVENTION, INJURY MANAGEMENT, AND DISASTER RESPONSE \n
1. This course will cover the principles and practices of injury prevention, injury management, and disaster response. 

2. The course will cover topics such as the role of the EMT-B in injury prevention, the role of the EMT-B in injury management, and the role of the EMT-B in disaster response. 

3. The course will also cover the importance of continuing education and professional development for the EMT-B. 

4. The course will also cover the role of the EMT-B in injury prevention, the role of the EMT-B in injury management, and the role of the EMT-B in disaster response. 

CHAPTER 5 - EMERGENCY MEDICAL TECHNICIAN \n
1. This course will cover the role and responsibilities of the emergency medical technician (EMT) in the provision of emergency medical care. 

2. The course will cover topics such as patient assessment, communication, and the use of medical equipment and supplies. 

3. The course will also cover the role of the EMT in the chain of command and the importance of communication and coordination with other healthcare professionals. 

4. The course will also cover the importance of continuing education and professional development for the EMT. 

5. The course will also cover the role of the EMT in the provision of emergency medical care, including the role of the EMT in providing advanced care.
concentration of the students for successful completion and the realization that more study and TAA requirements must be met. (CSU)

EN11 10 2
EMERGENCY MEDICAL TECHNICIAN - FIRST RESPONDER

A course for individuals who must provide first aid, including immediate care for sudden or sudden illness or medical emergencies, prior to the availability of medical care by licensed or certified health care professionals. This course is primarily for firefighters and law enforcement personnel and satisfies requirements under Title 22, Division 9, Section 1.5 of the California Administrative Code, requiring regularly employed public safety personnel to be trained to administer first aid and extend assistance until the arrival of medical personnel. Topics considered will include components of the local EMS system, rules and responsibilities of first responders, introduction to legal aspects, and introduction to anatomy and physiology. Students will be taught an introduction to vital and diagnostic signs and determinations of extent of injuries. Procedures for dealing with life-threatening emergencies are presented, as they pertain to the first responder, including CPR and control of hemorrhage. Other medical and environmental emergencies will be presented along with child-birth, disorders specific to infants and children, and communicable diseases. 36 hours are required for course completion. (Nondegree Applicable)

EN11 11 2
ELECTRIC NETWORK ANALYSIS

3 hrs. Lec.
Prerequisites: Eng 15, Axial stress; stress and strain relations; torsional stress and deformation; shear and moment diagrams; bending stress; shear stress; compound stresses; transformation of stresses; failure theories; buckling of axially indeterminate structures; Introduction to component design. (CSU UC credit limited. See a counselor.)

EN11 15 3
STATICS

3 hrs. Lec.
Prerequisites: Physics 4A, Math 3A with C or better. Corequisites: Math 3B. Forces systems; equilibrium; structures; distributed forces; friction; virtual work; moments of inertia; vector algebra. (CSU UC credit limited. See a counselor.)

EN11 16 3
DYNAMICS

3 hrs. Lec.
Prerequisites: Eng 15, Kinetics of a particle; center of force motion; systems of particles; work and energy; impulse and momentum; and power and energy. Euler's equations of motion; vibration and time response; engineering applications. (UC credit limited. See a counselor.)

EN11 19 6
STATICS AND DYNAMICS

6 hrs. Lec.
Prerequisites: Physics 4A and Math 3A with C or better. Corequisites: Math 3B. This course is a combination of EN15 and EN16. (CSU UC credit limited. See a counselor.)

EN11 20 6
THE NELSON-Denny Reading Test will be required of all new students who desire to register for their initial reading and writing classes. Additionally, the placement essay test is required for enrollment in writing classes.

EN11 21 6
READERS COMPANION

6 hrs. Lec.
Prerequisites: Assignment by placement test and Instruc- tor recommendation. Preparation for Eng 2A. This course covers the second half semester's work of Eng 2B. Concurrent enrollment in Eng 12B is strongly recommended. (Nondegree Applicable)

EN11 22 6
ENGLISH

6 Hrs. Lec.
Prerequisites: Assignment by placement test and Instruc- tor recommendation. Preparation for Eng 2A. This course covers the first half semester's work of Eng 2B. Concurrent enrollment in Eng 12A is strongly recommended. (Nondegree Applicable)

EN11 23 6
WRITING FUNDAMENTALS

6 Hrs. Lec.
Prerequisites: Assignment by placement test and Instruc- tor recommendation. Preparation for Eng 3A. This course is a continuation of EN11 22 6. Concurrent enrollment in Eng 12A is strongly recommended. (Nondegree Applicable)

EN11 24 6
ADVANCED GRAMMAR AND COMPOSITION

6 Hrs. Lec.
Prerequisites: Satisfactory completion of Eng 5A or Eng 5B or appropriate score on ESL Placement Test. Advanced composition work is emphasized. Satisfactory completion of this course qualifies the student for enrollment in Eng 6A. (CSU UC credit limited. See a counselor.)

EN11 25 6
BEGINNING GRAMMAR AND COMPOSITION

6 Hrs. Lec.
Prerequisites: Designated score on placement test or permission of the instructor. A beginning course in English designed for the student who has not had any formal English classes in the United States. The course will cover grammar and simple sentence writing. Capitalization and punctuation will be emphasized through some beginning composition writing in the latter part of the semester. (CSU)

EN11 26 6
BEGINNING GRAMMAR AND COMPOSITION

6 Hrs. Lec.
Prerequisites: Designated score on placement test or permission of the instructor. A beginning course in English designed for the student who has not had any formal English classes in the United States. The course will cover grammar and simple sentence writing. Capitalization and punctuation will be emphasized through some beginning composition writing in the latter part of the semester. (CSU)

EN11 27 6
BEGINNING GRAMMAR AND COMPOSITION

6 Hrs. Lec.
Prerequisites: Designated score on placement test or permission of the instructor. A beginning course in English designed for the student who has not had any formal English classes in the United States. The course will cover grammar and simple sentence writing. Capitalization and punctuation will be emphasized through some beginning composition writing in the latter part of the semester. (CSU)
ENGL 12A (3.5) READING I: INTERMEDIATE DEVELOPMENT 3 hrs. Lab. *1 hr. Lab. Prerequisite: Successful completion of Eng 12A and/or the ability to read at the 10th grade level. Course at the upper intermediate level designed to refine those skills designated in Eng 12A. Includes additional instruction in study skills, outlining, previewing, summarizing, and critical reading.

Promotion to be taken concurrently with Eng 5 or by permission of the Instructor. A beginning level of vocabulary will be offered. Some spelling techniques will be taught and vocabulary will be used both in oral and written sentences. (Nondegree Applicable)

ENGL 23B (3-3) VOCABULARY BUILDING 3 hrs. Lab. A concentrated study of affixes, roots, word origins, language change, varieties of meaning, the dictionary, and vocabulary in the various subject areas. (Nondegree Applicable)

ENGL 24 (3) ADVANCED VOCABULARY BUILDING AND SPELLING FOR ESL 3 hrs. Lab. Prerequisite: Eng 25, Eng 5 or by consent of the Instructor. The student will work on English-Spanish cognates, roots and prefixes, idioms, general reading vocabulary, subject matter (e.g., psychology, history), reading vocabulary, parts of speech, dictionary skills, word connotation and usage, and listening comprehension. The emphasis will be on writing and listening more than oral work, and on independent vocabulary building as well as on group work. (Nondegree Applicable)

ENGL 25 (3) INTRODUCTORY VOCABULARY BUILDING AND SPELLING FOR ESL 3 hrs. Lab. Prerequisite: Eng 5 concurrently or consent of the Instructor. This course is designed to bring English-speaking bilingual students to a near-native level of fluency and listening comprehension so that they may successfully compete with native speakers. Students will prepare, present and evaluate activities such as speeches, oral interpretations, interviews, reports, debates, and simulation games. Emphasis will be given to use of the library to provide appropriate material for topics of academic and literary significance. Recommended for students currently enrolled in Eng 34 and 12A. May be taken as a preparatory course, not as a substitute for Speech 1. (Nondegree Applicable)

ENGL 33 (3) BASIC PUBLIC SPEAKING FOR BILINGUALS 3 hrs. Lab. Prerequisite: Eng 33 with C or better, or permission of the Instructor. This course is designed to bring English-speaking bilingual students to a near-native level of fluency and listening comprehension so that they may successfully compete with native speakers. Students will prepare, present and evaluate activities such as speeches, oral interpretations, reports, debates, and simulation games. Emphasis will be given to use of the library to provide appropriate material for topics of academic and literary significance. Recommended for students currently enrolled in Eng 34 and 12A. May be taken as a preparatory course, not as a substitute for Speech 1. (Nondegree Applicable)

ENGL 34 (3) ADVANCED ORAL ENGLISH FOR ESL 3 hrs. Lab. Prerequisite: To be taken concurrently with Eng 5 or by permission of the Instructor. An intensive course in oral American English for Mexican American students who have learned English as a second language. It is intended for students who need to work on pronunciation and sentence structure. (Nondegree Applicable)

ENGL 35 (3) INTERMEDIATE ORAL ENGLISH FOR ESL 3 hrs. Lab. Prerequisite: To be taken concurrently with Eng 5 or by permission of the Instructor. A conversational course designed for the beginning intermediate level student of English. Students will utilize oral English by creating their own dialogues and presenting them, and by speaking on posters or other visual materials. Differences between the students' native language and English and how these differences affect the students' oral English will be discussed. (Nondegree Applicable)

ENGL 41 (3) SURVEY OF AMERICAN LITERATURE 3 hrs. Lab. Prerequisite: Eng 18 is recommended. A study of the works of major American writers. (CSU, UC)

ENGL 42A (3) SURVEY OF WORLD LITERATURE 3 hrs. Lab. Prerequisite: Eng 18 is recommended. Study of selected literature of the Hebrews, Greeks, Romans, the Middle Ages, the Renaissance and the Romantic Age. Emphasis on literature other than American and English. (CSU, UC)

ENGL 42B (3) SURVEY OF WORLD LITERATURE 3 hrs. Lab. Prerequisite: Eng 18 is recommended. Study of selected literature of Neo-classicism, Romanticism, Naturalism, Symbolism and modern schools. Emphasis on literature other than American and English. May be taken before Eng 42A. (CSU, UC)

ENGL 43A (3) SURVEY OF ENGLISH LITERATURE (CAN ENGL 8) 3 hrs. Lab. Prerequisite: Eng 18 or permission of the Instructor. Close study of works of major English writers up to the end of the 18th century, with consideration of the more important aspects of English literary history. (CSU, UC)

ENGL 43B (2) SURVEY OF ENGLISH LITERATURE 3 hrs. Lab. 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 taken before Eng 43A. (CSU, UC)

ENGL 44A (3) THE MEXICAN AMERICAN IN LITERATURE 3 hrs. Lab. Prerequisite: Eligibility for Eng 1A. Study of the contributions of Mexican Americans to all genres of literature. Course to be developed through the study of the
Eng 460 (3) The Mexican American 18 Literature 3 hrs. Lect. Prerequisite: Eligibility for Eng 1A. A continuation of Eng 46A with emphasis on contemporary Mexican American writings. Coreq. Eng 46B may be taken before Eng 46A. (Same as Span 206) (CSU, UC)

Eng 47 (3) Introduction to the Bible as Literature 3 hrs. Lect. Prerequisite: Eng 28 or Eng 1A recommended. A study of literature and history of the Bible. (CSU, UC)

Eng 50 (3) Advanced Composition 3 hrs. Lect. Prerequisite: Eng 1A. Advanced expository prose, argumentation, description and the study of prose style. (CSU, UC)

Eng 52 (3) Introduction to Linguistics 3 hrs. Lect. Prerequisite: Eng 20, Eng 51, Eng 1A or consent of the instructor. An introduction to the various branches of linguistics: language classification, vocabulary, grammar, phonetics, semantics. Specific work on English sounds, grammar, and dialects, including comparisons of English with Spanish. Recommended for teachers, teacher aides, students of foreign languages, and anyone interested in expanding his/her knowledge of language. Suitable for English speaking and bilingual students. (CSU, UC)

Eng 55AB (3-3) Creative Writing 3 hrs. Lab. Prerequisite: Eng 18 or permission of the instructor. Study and application of the principles of literary construction, plus exercises in the writing of imaginative literature, including short story, poetry, drama, and essay. (CSU, UC)

Eng 54 (3) Introduction to Film History and Criticism 2 hrs. Lect. 2 hrs. Lab. The origin and development of movies as an entertainment industry, as a technological medium, and as an art form. Key ideas from different historical periods will be examined for their technological and artistic contributions to the art of film making. (CSU, UC)

Eng 55 (3) Introduction to Technical and Report Writing 3 hrs. Lab. Prerequisite: Satisfactory completion of Eng 2A or Eng 2B or Eng 1A or permission of the instructor. Practical experience in the preparation of technical reports, descriptions, proposals, and evaluations. Writing assignments will be tailored to the interests of individual students. (CSU)

Eng 59 (3) Grammar and Usage Review 3 hrs. Prerequisite: Placement at Eng 2A level or above. Review of traditional structural devices; review of usage rules regarding punctuation, mechanics, capitalization, review of spelling rules; practice with summary/report writing done by the student. (Nontransferable, AA/AS degree only)

Eng 60ABIC (1-1-1) Language Laboratory 2 hrs. Lab. Prerequisite: Current enrollment in ESL. Individual language laboratory, practice with prepared tapes of materials and texts in the language laboratory. Practice in listening comprehension and pronunciation. Grammar and sentence development through structured lessons on tapes. Supplementary course for beginning, intermediate and advanced levels in ESL. (Kendige Applicable)

Eng 61ABIC (1-1-1) Individualized Writing Skills 2 hrs. Lab. Prerequisite: Eligibility for Eng 4A, Eng 14A, or higher by means of the ESL, Nelson-Denny, or holistic essay placement exam. This course is designed to provide supplemental work for students in regular writing classes or for independent study. A certificated instructor diagnoses writing deficiencies and prescribes remediation. Individual assignments are given for improving problem areas in grammar, usage, rhetorical skills, and to eliminate non-English language interference. The course is designed to assist students in any course of study or writing. The 36 required hours will be set by arrangement with the student and must be undertaken in the Reading/Writing Lab. (Kendige Applicable)

Eng 62AB (1-1-1) Individualized Reading Skills 2 hrs. Lab. Prerequisite: Eligibility for Eng 4A, Eng 14A or higher. An introduction to reading; reading skills, problem areas, remedial work for students in regular English classes or for independent study. (Kendige Applicable)

Eng 63AB (1-1) Spelling 1 hr. Lect. Diagnosis of specific spelling problems and prescription of remedies; investigation of the basic spelling rules. (Kendige Applicable)

Eng 64 (1) Library Resources and Research Paper 1 hr. Lect. Prerequisite: Eligibility for Eng 2A or Eng 12A. Use of the library facilities, especially the card catalog, reference books, and indexes, as a basis for research in any field. Techniques of preparing and presenting research papers are included. Lab on an actual term paper is not required, although students may use this experience for reading projects and for other courses. Help is given to an individual from the community who wishes to use the library to keep up to date on the latest developments and to compile a bibliog­raphy in an area that's of interest. (CSU, UC)

ENVI SCI 5 (3) Man and His Environment 3 hrs. Lab. The study of natural resources vital to man's existence. Emphasis on composition of the physical environment and problems associated with contamination of air, water and soil. (Same as Ag 5) (CSU, UC)

Fire Science

Fire Sci 17 (1) Emergency Fire/medical Dispatcher 1 hr. Loc. .5 hr. Lab. Prerequisite: Current CPR card. A course to train public safety dispatchers to quickly and accurately inter­rogate callers requesting medical aid, fire units or rescue services, and dispatch proper emergency vehicles and personnel. Communication between field units and dis­patchers, prearrival instructions, triage calls, basic life support, record keeping, FCC regulations, and roles and responsibilities of dispatcher will be covered. (Nontransferable, AA/AS degree only)

Fire Sci 25 (1) Preparing for Incident Command 1 hr. Loc. Standard operating procedures for commanding the initial fire response resources at an emergency incident are introduced. Following selected objectives of the National Processing/Standard, this course will give the student an understanding of the basic concepts of Incident Command. (Kendige Applicable)

Fire Sci 60 (3) Introduction to Fire Technology 3 hrs. Lect. An introduction to fire protection; career opportunities in fire protection and related fields; history of fire protection; fire loss analysis; public fire loss reduction; fire protection and public fire protection services; specific fire protec­tion functions; basic fire chemistry and physics. (CSU)

Fire Sci 65 (3) Fundamentals of Fire Prevention 3 hrs. Lect. Organization and function of fire prevention; inspec­tion; surveying and mapping procedures; fire prevention in the workplace; fire prevention and protection; losses from house fires; loss analysis; fire investigation; enforcement of fire prevention laws; public education of fire prevention. (CSU)

Fire Sci 66 (3) Fire Protection Equipment and Systems 3 hrs. Lect. A course on the features and design and operation of fire detection and alarm systems, heat/smoke control systems, special protection and sprinkler systems, water supply and portable fire extinguishers. (CSU)

Fire Sci 67 (3) Fundamentals of Fire Behavior and Control 3 hrs. Lect. A course covering theory and fundamentals of how fires start, spread and are controlled. An in-depth study of fire chemistry and physics, fire character­istics of materials, extinguishing agents and fire control techniques. (CSU)

Fire Sci 68 (3) Fundamentals of Fire Protection 3 hrs. Loc. The theory and fundamentals of fire protection, including fire protection laws, fire codes and fire protection systems; fire protection in buildings and structures. (CSU)

Fire Sci 69 (3) Fundamentals of Personal Fire Safety and Emergency Action 3 hrs. Loc. A course designed to provide basic skills in assessing fire hazards, handling common fire situations in the home and/or industry, basic CPR and Standard First Aid. (CSU)

Fire Sci 70 (3) Volunteer Instructor Training 1 hr. Loc. Designed for volunteer fire personnel with a responsi­bility for training. Emphasizes the teaching and eval­uation of manipulative skills employed by the fire service. (CSU)

Fire Sci 88 (1) Auto Extrication 1 hr. Loc. This course provides students with the information and skills necessary to operate within the procedures and systems utilized during an automobile extrication. Subjects include: auto extrication sizes; types of incidents; safety precautions; I.C.E. for auto extrica­tion (identification of control, extraction of power, opening windows; opening doors; removing roofs; pulling steering wheels; moving foot pedals; raising dashboards; pulling seats; stabilization of vehicles; and simulated rescues of trapped victims. (CSU)

Fire Sci 89A (2) Driver/Operator 1A 2 hrs. Loc. This course is designed to provide the student with information on driver techniques for emergency vehicle and techniques of basic inspection and maintenance for emergency vehicles, including actual driving exercises under simulated emergency conditions. (CSU)

Fire Sci 89B (2) Driver/Operator 1B 2 hrs. Loc. Corequisite: Fire Sci 89A. This course is designed to provide students with information on fire pump and component operations, water sources and distribution systems; basic calculations, various pumping opera­tions, operating foam systems, and pumping sprinker and standpipe systems. (CSU)

Fire Sci 90 (2) Pump Operation 1 2 hrs. Loc. Prerequisite: Suggested completion of Fire Sci 60 or Fire Sci 62. A basic course for engineers in the fire service and in the fire equipment industry 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: Fire Science 92. This is an advanced arson investigator course for fire and police personnel to successfully carry out responsibilities in arson detection and investigation. (CSU)

FIRE SCI 93 (2) ARSON INVESTIGATION II
2 hrs. Lec.
Prerequisite: Fire Science 92. This is an advanced arson investigator course for fire and police personnel to successfully carry out responsibilities in arson detection and investigation. (CSU)

FIRE SCI 94A (2) FIRE COMMAND I
2.5 hrs. Lec.
Prerequisite: Fire Science 94A, present fire fighter status, either paid or volunteer. A class designed to provide Fire Company Officers with information and experience in command and control techniques used at the scene of an emergency. The course emphasizes decision making, the act of commanding, the authority or right to command, the personnel organization structure or area under an individual commander, and the preplanning and training requirements for effective performance as an officer. (CSU)

FIRE SCI 94B (2) FIRE COMMAND II
2.2 hrs. Lec.
Prerequisite: Fire Science 94B, present fire fighter status, either paid or volunteer. This course provides instruction in First-In-Company level decision making and scene management for situations involving hazardous materials and hazardous incidents. Included are some Safety Procedures; EVACuation Considerations; and Identification of Materials by Container Size, Shape, and Labeling. (CSU)

FIRE SCI 95ABC (1/2-1/2-1/2) FIRE FIRE SCIENCE I
.5 hr. Lab. .5 hr. Lab.
This course provides students with general information, techniques, and strategies in dealing with fire, smoke, and toxic gases. Students are provided with particular examples in controlling and then in extinguishing flammable liquid and gas fires at selected burned sites under controlled supervision. (CSU)

FIRE SCI 96 (1.5) PIPELINE TRANSPORTATION EMERGENCIES
.5 hr. Lab.
This course is designed to create emergency support effectiveness in preventing, controlling, and terminating accidents involving pipeline transportation. (CSU)

FIRE SCI 97A (2) FIRE INSTRUCTOR TRAINING I
2 hrs. Lec.
Part of the California State Fire Academy curriculum. This course is designed to prepare personnel as instructors in Fire Science. The course covers overview, levels of instruction, behavioral objectives, lesson plans, testing and evaluation techniques, and instructional aids. (CSU)

FIRE SCI 97B (2) FIRE INSTRUCTOR TRAINING II
2 hrs. Lec.
Prerequisite: Fire Science 97A. This is the second in a two course series to prepare instructors in Fire Science. This course covers overview, levels of instruction, behavioral objectives, lesson plans, testing and evaluation techniques, and instructional aids. (CSU)

FIRE SCI 98A (2) FIRE PREVENTION I
2 hrs. Lec.
A part of the California Fire Academy curriculum. This course is designed to prepare personnel in matters of fire cause and origin and fire prevention techniques. This course includes inspection techniques, properties of flammable and combustible solids, and radioactive explosives and unstable materials typically found during basic fire inspections. (CSU)

FIRE SCI 98B (2) FIRE PREVENTION II
2 hrs. Lec.
A part of the California Fire Academy curriculum. This course is designed to prepare personnel in matters of fire cause and origin and fire prevention techniques. This course includes structural and life safety components, hazards associated with specific types of fires, fire control of fire/smoke detection and sprinkler systems, and building and fire code information. (CSU)

FRENCH
High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the foreign language requirement in various majors. These high school courses will not count as college credit toward graduation. Placement will be made by examination and/or consent of the instructor. Contact the 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 school are recommended to take Fr 1A and Fr 1B.

FR 1A (2.5) ELEMENTARY FRENCH
2.5 hrs. Lec.
Prerequisite: Fr 1A. This course is one-half the content of the regular Fr 1 course. Students must take one of Fr 1A, Fr 1B, or the regular Fr 1 course in any sequence. Students must plan for an one-half hour of individual laboratory language by arrangement. (CSU) (UC credit limited. See a counselor.)

FR 1B (2.5) ELEMENTARY FRENCH
2.5 hrs. Lec.
Prerequisite: Fr 1B. This course is one-half the content of the regular Fr 1 course. Students must take one of Fr 1A, Fr 1B, or the regular Fr 1 course in any sequence. Students must plan for an one-half hour of individual laboratory language by arrangement. (CSU) (UC credit limited. See a counselor.)

FR 2A (2.5) ELEMENTARY FRENCH
2.5 hrs. Lec.
Prerequisite: Fr 1A or Fr 1B. This course is one-half the content of the regular Fr 2 course. Completion of Fr 2A and Fr 2B will meet the equivalent of Fr 2. Students must plan for an one-half hour of individual laboratory language by arrangement. (CSU) (UC credit limited. See a counselor.)

FR 2B (2.5) ELEMENTARY FRENCH
2.5 hrs. Lec.
Prerequisite: Fr 2A. A continuation of Fr 2A. Students must plan for an one-half hour of individual laboratory language by arrangement. (CSU) (UC credit limited. See a counselor.)

FR 3 (4) INTERMEDIATE FRENCH
4 hrs. Lec.
Prerequisite: Fr 2 or two years of high school French or placement by examination. An Intermediate course offering review and expansion of grammar and vocabulary learned in Fr 1 and Fr 2. Emphasis on communication and application of knowledge in highly functional life situations. Students must plan for one hour per week for required laboratory practice by individual study arrangement. (CSU) (UC credit limited. See a counselor.)

FR 4 (4) INTERMEDIATE FRENCH
4 hrs. Lec.
Prerequisite: Fr 3 or three years of high school French or placement by examination. Continuation of Fr 3. An Intermediate course emphasizing oral communication and application of knowledge in highly functional life situations. Students must plan for one hour per week for required laboratory practice by individual study arrangement. (CSU) (UC credit limited. See a counselor.)

FR 5 (5) INTERMEDIATE FRENCH AND WRITING
5 hrs. Lec.
Prerequisite: Fr 4 or three years of high school French. Intensive reading and vocabulary development based on cultural and literary materials, including critical analysis and summaries. (CSU, UC)

FR 10 (5) INTERMEDIATE CONVERSATIONAL FRENCH
5 hrs. Lec.
Prerequisite: Fr 2 or two years of French in high school or by examination and consent of the instructor. (It is recommended that Fr 10 be taken concurrently with Fr 3.) Continuation of Fr 10. Students must plan for an additional hour of individual laboratory language by arrangement. (CSU, UC)

FR 11 (5) INTERMEDIATE CONVERSATIONAL FRENCH
5 hrs. Lec.
Prerequisite: Fr 3 or Fr 10 or three years of French in high school or by examination and consent of the instructor. (It is recommended that Fr 11 be taken concurrently with Fr 4.) Continuation of Fr 10. Students must plan for an additional hour of individual laboratory language by arrangement. (CSU, UC)

FR 12 (1-1-1) LANGUAGE LABORATORY
2 hrs. Lab.
Prerequisite: Current enrollment in French, individually-tailored laboratory practice with prepared taped materials and texts in the language laboratory. Practice in listening comprehension, dictation, free composition, supplementary course for beginning, intermediate and advanced levels in French. (Nontransferable, AA/AS degree only)
Continuing Education

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Hrs. Lee.

of individual language.

Student

a total of 4 units.

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in industry, including copysetting, proofreading and

offset presses under 11 x 17 inches. Students must print simple

work, color work and between-register. This course

also offer instructions in the theory of offset press troubleshooting, including standard trouble-

shooting procedures. (CUI)

GA 21 (3)
OFFSET PRINTING II

2 Hrs. Loc. 2 Hrs. Lab.

Current techniques and equipment in photography and

platemaking as final preparation before offset printing. Covers effective

of materials and techniques in
darkroom, stripping and platemaking departments. (CUI)

GA 25 (2)
BINDERY, CUTTING AND DISTRIBUTION

1 1/2 Hrs. 2 Hrs. Lab.

This course offers instruction in finishing operations on

printed materials, training in the operation of folding

machines, slitting, perforating, and trouble-

shooting, training the operation of hand and power

cutters, special trimming, trimming of booklets and

printed matter, cutting of blank stock, collating,

machining, press working, hole punching, jogging and

padding procedures. (CUI)

GA 30 (3)
GRAPHICS PLANT OPERATION AND MANAGEMENT
Fundamentals of printing plant operation and

management. (CUI)

HE 1 (3)

HEALTH EDUCATION

3 Hrs. Lab.

Fundamentals of healthful living designed to provide

scientific health information, and promote desirable

attitudes and practices. Includes the study of first aid

and the relationship of alcohol, narcotics, and smoking to

health, and the factors involved in family and

community health and safety. (CUI, UC)

HE 2 (3)
FIRST AID

3 Hrs. Lab.

The immediate and temporary care given in case of

accident, illness and emergency childbirth. Course shall

qualify students for the Standard or Advanced Red Cross

First Aid Certificate. (CUI, UC)

HE 3 (2)

HEALTH EDUCATION - MILITARY SERVICE

Prerequisites: The satisfactory completion of basic or

recruiting training and 180 days or more active service

in the military of the United States of America. The

student wishing credit for military service must present

Certificates of Service and/or supplementary documentation to the

Veterans Assistant and register for the credit. If the student

registers for military credit and does not submit verification of service, he/she will be

dropped as a No-Show and will not receive credit. HE 3 does not count toward writing and writing. This

course is not counted for full-time student status. These are not contact hours. May receive

credit only. (CUI)

HEALTH TECHNOLOGIES

HT 1 (2)
INTRODUCTION TO HEALTH SCIENCE

2 Hrs. Loc.

In this course the educational requirements and practice

demands of the various careers within the health services

are surveyed. Progress and trends in health care delivery since 1960 is presented as a background

for the exploration of the current state of the art. Major

health problems of the 1980's are identified and the impact of lifestyle, total environment and education

on physical and emotional well-being are analyzed. (Nontransferable, AA/AS degree only)

HT 3 (3)

MEDICAL TECHNOLOGY

3 Hrs. Lab.

Course is designed to develop competency in the

accurate use of medical vocabulary to include anatomy, biology, diseases, and descriptive terms and prepare

students for entry-level positions as medical trans-

scribers, clinical editors, health insurance processors, and patient administration specialists. (Same as Bus 80)

(CUI)

HT 4 (5)

MEDICAL TRANSCRIPTION

5 Hrs. Loc.

Course is designed to develop competency in the

accurate use of medical vocabulary to include anatomy, biology, diseases, and descriptive terms and prepare

students for entry-level positions as medical trans-

scribers, clinical editors, health insurance processors, and patient administration specialists. (Same as Bus 80)

(CUI)
MUN 25 (2) 
INTRODUCTION TO THE HUMANITIES 
3 hrs. Lec. 
An exploratory course designed to introduce students to the major disciplines in the Humanities: art, architecture, literature, music, and dance. Examination of human values and how they are reflected in the arts of world cultures. (CSU, UC)

MUN 26 (3) 
THE HUMANITIES 
3 hrs. Lec. 
Prerequisites: MUN 25 or consent of the instructor. An advanced course dealing extensively in music, drama, dance, film, visual arts and architecture, humanistic and interdisciplinary approach to study of creative expression. Requirements include diverse readings, papers, and creative projects. Forest includes discussions, lectures, and films. (CSU, UC)

HUMAN RELATIONS 
The Human Relations curriculum with an Associate in Arts degree has been designed to prepare students for employment as counselor aides and group counselor aides, vocational rehabilitation aides, teacher aides, eligibility workers, social service technicians and other preprofessional positions in the vocational-vocational career concepts in people-to-people services. These services are used by youth and adult correctional institutions, welfare agencies, medical service agencies, mental hospitals, state employment centers, educational institutions, and child care centers.

HUM 7 (3) 
HUMAN RELATIONS IN MANAGEMENT 
3 hrs. Lec. 
(Same as Bus 73) (CSU)

HUM 8 (3) 
PERSONAL AND CAREER DEVELOPMENT 
3 hrs. Lec. 
This course examines the process a student would follow in making a realistic career decision. Students planning to enter professions involving helping relationships such as education, social work, counseling, psychology, community work, and related areas, in addition to students who are undecided about their own future, would profit from the course. Self-awareness will be appraised by testing and discussing interests, aptitudes, abilities, limitations, needs and life goals. Career awareness will be facilitated by exploring the world of work in terms of occupational outlook, wages, training required, opportunities for advancement and life styles. (Same as Psych 8) (CSU)

HUM 9A (1) 
PERSONAL AND CAREER DEVELOPMENT 
1 hr. Lab. 
This course examines the dynamics of self-awareness which are required when making a realistic career decision. Self-awareness will be appraised through an interest inventory, basic skills test, and a values survey, supported by class discussions about personal interest, abilities, aptitudes, limitations, needs, values, and goals. Additional course work will acquaint the student with basic college orientation skills which provide knowledge of services, scholastic requirements, and additional educational opportunities. (CSU)

HUM 10A (1) 
PERSONAL AND CAREER DEVELOPMENT 
1 hr. Lab. 
This course examines the dynamics of self-awareness which are required when making a realistic career decision. Self-awareness will be appraised through an interest inventory, basic skills test, and a values survey, supported by class discussions about personal interest, abilities, aptitudes, limitations, needs, values, and goals. Additional course work will acquaint the student with basic college orientation skills which provide knowledge of services, scholastic requirements, and additional educational opportunities. (CSU)
VOCATIONAL EDUCATION

INDIVIDUAL STUDIES

IND STU 45 or 85 (1-3) NATURAL SCIENCE

Hours by Arrangement

IND STU 44 or 84 (1-3) SOCIAL SCIENCE

Hours by Arrangement

IND STU 45 or 85 (1-3) BUSINESS

Hours by Arrangement

IND STU 64 or 86 (1-3) HEALTH, PHYSICAL EDUCATION AND RECREATION

Hours by Arrangement

IND STU 64-46 and 80-86 COURSE DESCRIPTION

Available to students on an individual basis. Course content, prerequisites, and unit credit to be determined by the Division and the Vice President of Academic Services. Courses developed in relation to student interest and staff availability. Courses numbered 61-44 are UC credit limited. See a counselor. Courses numbered 60-86 are non-transferable.

IND STU 64AB or 84AB (1-6) PHYSICALLY LIMITED PROGRAM

1-6 hrs. Lab. by arrangement

This course is designed to help prepare the physically limited student for full or adaptive participation in community college activities: academic, social, vocational, and environmental. (Nontransferable)

IND STU 65A (1-1-1) STUDENT EDUCATIONAL PLAN

.5 hrs. Lab.

Prerequisite: HR 45A. An optional course to be taken after the successful completion of HR 45A. This course expands on the foundation of information provided in HR 45A by assisting each student to compile an individual needs analysis based on part on student profile questionnaire completed in HR 45A. Based on that needs analysis, specific information will be presented in the areas of transfer, vocational requirements, career exploration, choosing a major, decision making, campus organizations, student life, and assessment needs as necessary. (Nontransferable, AA/AS degree only)

IND STU 65B (1-0-0) STUDENT CONTINUOUS COLLEGE AFFAIRS

1 hr. Lab.

Designed to develop leadership qualities in students desiring to better understand the principles of publicity, finance, organization procedures, group dynamics, and human relations. The course shall be offered on a credit basis only. (Nontransferable, AA/AS degree only)

IND STU 66 (1) THEORIES OF INTERPERSONAL RELATIONSHIPS

3 hrs. Lab.

(Same as Psy 16) (CSU)

IND STU 67 (1) COLLEGE STUDY TECHNIQUES

2 hrs. Lab.

A course in the methods of efficient study which is designed to assist the student in adjusting to the demands of college study and the improvement of learning skills. This course offers a survey of the learning processes and the development of the techniques of learning, the use of notes, taking useful notes, outlining, scheduling, learning to concentrate and remember, the preparation for examinations, the use of the library, the management techniques with interpersonal communication skills. (Nontransferable, AA/AS degree only)

PERIODICALS

Additional course work in this area is recommended. The student is encouraged to develop a personal library and to read extensively in the field of law. The following courses are designed for this purpose:

IND STU 91 (3) INTRODUCTION TO JOURNALISM

3 hrs. Lab.

Prerequisite: Eligibility for Eng 28 or Eng 1A. The course focuses on the newspaper as a vehicle for communication within a community. Students study basic components of print journalism, including types of articles, writing style, interview techniques, makeup and ethics. (CSU)

JEN ZINC (1-4-4)

NEWSPAPER PRODUCTION

3 hrs. Lab. (2-2-2) Prerequisites: JIN 1 or equivalent. Course provides a concrete introduction to principles and techniques of newspaper production through work in 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.

LA 21 (3)

RESEARCH AND CRIMINAL LAW

3 hrs. Lab.

An introductory course regarding the use of the legal library, research techniques and digesting legal documents. Includes the Penal Code and other criminal statutes and provides an understanding of the elements of crimes and defenses. (CSU)

LA 22 (3)

CIVIL PROCEDURES AND FAMILY LAW

3 hrs. Lab.

An introductory course in basic civil procedures, court systems, and procedures as they apply to federal, state, and civil laws. Includes topics in family law relating to marriage, community property, dissolution, parent-child relations, and adoption. (CSU)

LA 23 (3)

CIVIL DISCOVERY AND Torts

3 hrs. Lab.

Studies the fundamental principles of the law of torts and examination of the techniques of investigation involved to the lawyer's handling of tort claims. An examination of the rules of evidence and the admissibility of evidence. (CSU)

LA 24 (3)

COMPULSORY AND BANKRUPTCY

3 hrs. Lab.

This course covers the principles of agency, principal and third party relations, and law of management of California corporations, the rights and liabilities of stockholders, and corporate reorganization and dissolution. It includes an examination of the rules of evidence and the admissibility of evidence. It also includes a study of the bankruptcy laws and procedures with topics on creditors' rights, debtors' exceptions, and secured transactions. (CSU)

LA 25 (3)

REAL ESTATE LAW FOR LEGAL ASSISTANTS

3 hrs. Lab.

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, homesteads, and estates, etc. (CSU)

LA 26 (3)

WILLS - TRUSTS - PROBATE

3 hrs. Lab.

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 documentation. (CSU)

LIBRARY TECHNICIAN

LT 51 (3) INTRODUCTION TO LIBRARY SERVICES 3 hrs. Lec.
This course is an introduction to libraries and their organization. It is designed for students interested in library techniques, tools, and techniques for library routines are emphasized. (CSU)

LT 52 (3) SUPPORT FOR TECHNICAL SERVICES 3 hrs. Lec.
Prerequisite: 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.
Prerequisite: LT 51 or consent of the instructor. Library public relations, circulation control systems and location of information through use of card catalogs, indexes, and basic reference books. (CSU)

LT 54 (3) INTRODUCTION TO AUDIOVISUAL SERVICES 3 hrs. Lec.
Prerequisite: LT 51 or consent of the instructor. A survey course of the processes necessary for the utilization of audiovisual materials and equipment in the library situation. (CSU)

LT 55 (3) CATALOGING AND CLASSIFYING 3 hrs. Lec.
Prerequisite: LT 51 and/or LT 52 or consent of the instructor. A course devoted to the development of the skills and practical experiences needed by library technical assistants in support of the technical services aspect of a library operation. The student learns the theory and philosophy underlying the classification systems used in American libraries, classifies and catalogues books, and is exposed to a variety of work-experience situations where this knowledge is put to use. (CSU)

MATHEMATICS

Enrollment in math courses requiring a prerequisite is not allowed unless the prerequisite math class is passed with a "C" grade or better.

MATH 2 (3) BEGINNING ALGEBRA 3 hrs. Lec.
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 school algebra course. (Nontransferable, AA/AS degree only)

MATH A (5) INTERMEDIATE ALGEBRA 3 hrs. Lec.
Prerequisite: Math X. This one semester course offers a second year algebra course offered a full year in high school. Topics covered include the real number system, polynomials, rational expressions, exponential and radical forms, linear and quadratic equations, relations, functions and graphs, systems of equations (inequalities. (Nontransferable, AA/AS degree only)

MATH B (5) ADVANCED 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 calculus. Included will be the study of the real number system, exponential, logarithmic, and trigonometric functions, the complex numbers, theory of equations, and systems of equations. (CSU) (UC credit limited. See a counselor.)

MATH 12 (3) ELEMENTARY STATISTICS 3 hrs. Lec.
Prerequisite: Math A or equivalent. Graphical representation of statistical data, calculations and uses of various averages, measures of variability, introduction to probability, probability distributions, confidence intervals, sample size determination and hypothesis testing, ANOVA, linear regression and Chi-square analysis. (Same as Bus 26 and Psych 15) (CSU, UC)

MATH 15 (4) INTRODUCTION TO STATISTICS WITH APPLICATIONS 4 hrs. Lec.
Prerequisite: Math A or equivalent. To prepare for courses 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) (UC credit limited. See a counselor.)

MATH 64 (3) BEGINNING ALGEBRA 3 Hrs. Lee.
Prerequisite: Math X. This one semester course is an introduction to algebra and location of information through use of card catalogs, indexes, and basic reference books. (CSU)

MATH A 10A (3) MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS 3 hrs. Lec.
Prerequisite: Math A, the equivalent, or permission of the instructor. Recommended for students who are working towards a teaching credential in elementary education. Covers areas of mathematics, including probability, statistics, geometry and measurements. (CSU)

MATH A 12 (3) ELEMENTARY STATISTICS 3 hrs. Lec.
Prerequisite: Math A or equivalent. Graphical representation of statistical data, calculations and uses of various averages, measures of variability, introduction to probability, probability distributions, confidence intervals, sample size determination and hypothesis testing, ANOVA, linear regression and Chi-square analysis. (Same as Bus 26 and Psych 15) (CSU, UC)

MATH 19 (3) BEGINNING MUSICAL INSTRUMENTS 3 hrs. Lec.
Prerequisite: Mus 7 or approval of the instructor. Required of all music majors. A course designed to prepare basic skills and theory of music for persons interested in a background for appreciation of or further studies in music. Skills to be studied and developed are singing, ear-training, keyboard harmony, and basic piano skills. (CSU, UC)

MATH 91 (3) BEGINNING MUSICAL INSTRUMENTS 3 hrs. Lec.
Prerequisite: Mus 7 or approval of the instructor. Required of all music majors. A course designed to prepare basic skills and theory of music for persons interested in a background for appreciation of or further studies in music. Skills to be studied and developed are singing, ear-training, keyboard harmony, and basic piano skills. (CSU, UC)

MUS 1A (3) BEGINNING MUSICAL INSTRUMENTS 2 hrs. Lab.
Prerequisite: Mus 7 or approval of the instructor. Required of all music majors. A course designed to prepare basic skills and theory of music for persons interested in a background for appreciation of or further studies in music. Skills to be studied and developed are singing, ear-training, keyboard harmony, and basic piano skills. (CSU, UC)

MUS 1B (2) BEGINNING MUSICAL INSTRUMENTS 2 hrs. Lab.
Prerequisite: Mus 7 or approval of the instructor. Required of all music majors. A course designed to prepare basic skills and theory of music for persons interested in a background for appreciation of or further studies in music. Skills to be studied and developed are singing, ear-training, keyboard harmony, and basic piano skills. (CSU, UC)

MUS 6D (2) BEGINNING MUSICAL INSTRUMENTS 2 hrs. Lab.
Prerequisite: Mus 7 or approval of the instructor. Required of all music majors. A course designed to prepare basic skills and theory of music for persons interested in a background for appreciation of or further studies in music. Skills to be studied and developed are singing, ear-training, keyboard harmony, and basic piano skills. (CSU, UC)

MUS 9A (3) BEGINNING MUSICAL INSTRUMENTS 3 hrs. Lab.
Prerequisite: Mus 7 or approval of the instructor. Required of all music majors. A course designed to prepare basic skills and theory of music for persons interested in a background for appreciation of or further studies in music. Skills to be studied and developed are singing, ear-training, keyboard harmony, and basic piano skills. (CSU, UC)

MUS 9B (3) BEGINNING MUSICAL INSTRUMENTS 3 hrs. Lab.
Prerequisite: Mus 7 or approval of the instructor. Required of all music majors. A course designed to prepare basic skills and theory of music for persons interested in a background for appreciation of or further studies in music. Skills to be studied and developed are singing, ear-training, keyboard harmony, and basic piano skills. (CSU, UC)

MUS 15A (3) BEGINNING MUSICAL INSTRUMENTS 2 hrs. Lab.
Prerequisite: Mus 7 or approval of the instructor. Required of all music majors. A course designed to prepare basic skills and theory of music for persons interested in a background for appreciation of or further studies in music. Skills to be studied and developed are singing, ear-training, keyboard harmony, and basic piano skills. (CSU, UC)

MUS 9C (3) BEGINNING MUSICAL INSTRUMENTS 3 hrs. Lab.
Prerequisite: Mus 7 or approval of the instructor. Required of all music majors. A course designed to prepare basic skills and theory of music for persons interested in a background for appreciation of or further studies in music. Skills to be studied and developed are singing, ear-training, keyboard harmony, and basic piano skills. (CSU, UC)

MUS 9D (3) BEGINNING MUSICAL INSTRUMENTS 3 hrs. Lab.
Prerequisite: Mus 7 or approval of the instructor. Required of all music majors. A course designed to prepare basic skills and theory of music for persons interested in a background for appreciation of or further studies in music. Skills to be studied and developed are singing, ear-training, keyboard harmony, and basic piano skills. (CSU, UC)
MUS 10A (1) BEGINNING GROUP PIANO II
1 Br. Loc. 2 Hrs. Lab.
A course structured to correlate those musical skills, techniques, and understandings which are basic to composition and performance of prescriptive keyboard musicianship at the college level. (CSU) (UC credit limited. See a counselor.)

MUS 10B (1) MUS 10A and/or equivalent. A course structured to correlate those skills, techniques, and understandings which are basic to composition and performance of prescriptive keyboard musicianship at the college level. (CSU) (UC credit limited. See a counselor.)

MUS 11A (1) INTERMEDIATE GROUP PIANO I
1 Br. Loc. 2 Hrs. Lab.
Prerequisite: MUS 10A or equivalent. A course structured for those students who have attained the performance skill competencies required in Beginning Group Piano. (CSU) (UC credit limited. See a counselor.)

MUS 11B (1) INTERMEDIATE GROUP PIANO II
1 Br. Loc. 2 Hrs. Lab.
Prerequisite: MUS 11A. A continuation of MUS 11A. (CSU) (UC credit limited. See a counselor.)

MUS 19A (1) SHEET MUSIC READING I
1 Br. Loc. 2 Hrs. Lab.
A course structured to correlate those singing skills, techniques, and understandings which are basic to composition and performance of prescriptive vocal musicianship at the college level. (CSU) (UC credit limited. See a counselor.)

MUS 20A (3) HISTORY AND LITERATURE OF MUSIC I
3 Hrs. Lecture, 1 Hr. Lab.
The historical development of music with a study of various types of music from stylistic periods as related to the development of a musical major and minor. (CSU) (UC credit limited. See a counselor.)

MUS 20B (3) HISTORY AND LITERATURE OF MUSIC II
3 Hrs. Lecture, 1 Hr. Lab.
A continuation of MUS 20A. (CSU) (UC credit limited. See a counselor.)

MUS 21A/21B (1-1-1) BRASS, WOODWIND AND PERCUSSION METHODS I
1 Br. Loc. 2 Hrs. Lab.
In-depth study and performance of literature for brass, woodwind, and percussion instruments. (CSU) (UC credit limited. See a counselor.)

MUS 21A/21B (1-1-1) STAGE BAND I
2 Hrs. Loc. 1 Hr. Lab.
Prerequisites: MUS 21A or equivalent. A course designed to provide experience in the development and performance of band literature. (CSU) (UC credit limited. See a counselor.)

MUS 234ACD (1-1-1) PREPARATION FOR PERFORMING ARTS I
1 Br. Loc. 2 Hrs. Lab.
Prerequisites: Permission of the instructor. A course designed to provide students with a concentrated sequence of private instruction in music within a particular performing medium. (CSU) (UC credit limited. See a counselor.)

MAY SCI (1) SURVEY OF THE EARTH SCIENCES I
1 Br. Loc. 1 Hr. Lab.
A junior college general education course to acquaint the student with such principles of the earth sciences as those which include sections on astronomy, meteorology, oceanography, geology, and physical geography. (CSU) (UC credit limited. See a counselor.)

ROSTRE
Imperial Valley College offers a career ladder nursing program. Students entering the program currently have two options:

1. Vocational Nurse - the student is eligible to write the state board examination for licensure as a vocational nurse upon Semester I, II, and III of the nursing curriculum as outlined on page 93 of the catalog.

2. Associate Degree Nurse - the student is eligible to write the state board examination for licensure as a registered nurse upon successful completion of the designated prerequisites and Semesters I, II, III, and IV of the nursing curriculum as outlined on page 93 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. Students who complete the total program, including prerequisites, general education courses, and required courses, will be granted an Associate in Science degree in Nursing from the college.
All students will be considered for advanced placement in the registered nurse curriculum. Those qualified by examination, previous work experience, or other evidence of achievement will be accepted. Behavioral and social science courses will be evaluated for recency on an individual basis.

Eligibility for transfer/advanced placement and advanced placement is determined on an individual basis by the Division of Nursing. Courses in natural sciences, taken within five years, that meet program requirements will be accepted. Behavioral and social science courses will be evaluated for recency on an individual basis.

Students are responsible for prerequisite requirements for general education courses. Transportation to class and to clinical laboratory 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 college work. Send one copy to the college in admission office and one to the nursing office.
4. Apply for admission to the nursing program. Students will be admitted to the program each semester. Applications will be accepted until March 1 prior to fall admission and until August 1 for spring admission. All students will be notified by mail approximately six weeks later.

Additional Placement
Applicants who have had previous nursing education or nursing work experience in the following areas will be considered for advanced placement:
1. Accredited Vocational or Practical Nursing Program
2. Nurse's Aide or nonaccredited Vocational Nursing Program
3. Accredited Professional Nurses
4. Accredited Psychiatric Technician Courses
5. Armed Services Nursing Courses
6. Certified Nurse Assistant Courses

Eligibility for transfer/advanced placement and advanced placement is determined on an individual basis by the Division of Nursing. Courses in natural sciences, taken within five years, that meet program requirements will be accepted. Behavioral and social science courses will be evaluated for recency on an individual basis.

Laccredited Vocational Nurses who seek advanced placement in the registered nurse curriculum have two alternatives:
1. Complete the degree program, or
2. Complete selected courses, with the approval of the California Board of Registered Nurses thirty (30) unit option 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.

Laccredited Vocational Nurses who have completed the Imperial Valley Nursing Program may, after one year of employment as an LVN, complete the general requirements for Registered Nurse and then enroll in the fourth semester nursing classes. Specific details regarding transition from Vocational Nurse status to Registered Nurse status are available in the Nursing Office.

Progression Policies
1. The required nursing and general education courses outlined on page 95 of the catalog must be taken in the sequence listed. Students may take some general education courses before entering the program but may not complete the entire course until the semester indicated on page 95 of the catalog. The nursing department's English and Math requirements must be met prior to graduation.

2. A grade point average of 2.0 must be maintained in every course required by the nursing curriculum. A student who makes a grade lower than 2.0 in any course required by the nursing program must repeat the course.

3. Required courses in Microbiology and Anatomy/Physiology taken more than five years previous to enrollment must be redet. Other courses are evaluated on an individual basis.

4. Nursing courses may be repeated one time if a student is unsatisfactory a second time, he/she must contact the Director of Nursing and Health Technology who will evaluate the student's academic situation and, with the student, will develop a plan of remediation.

All nursing (NS) classes except NS 2C are nine-week classes. NS 2C is a fourteen-week class. In addition, students are expected to schedule skills laboratory practice time.

NS 1A (R) (4) INTRODUCTION TO PATIENT CARE I 2 Bhrs. Lect. 6 Bhrs. Lab.
Prerequisites: NT 1, Anat 10, Psych 1A, admission to the Nursing 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 health are defined and the physical and psychological needs of the normal individual are explored. (CDB)

NS 1A (Y) (4) INTRODUCTION TO PATIENT CARE I 2 Bhrs. Lab. 6 Bhrs. Lab.
Prerequisites: NS 1A, Psych 1A, admission to the Nursing 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 health are defined and the physical and psychological needs of the normal individual are explored. (CDB)

NS 1B (R) (4) INTRODUCTION TO PATIENT CARE II 2 Bhrs. Lect. 6 Bhrs. Lab.
Prerequisites: NS 1A, NS 1C 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 well-being are introduced in the classroom. Concurrently in clinical assignments, the student relates learned skills and theory to the care of patients with well-defined commonly occurring illnesses in the hospital setting. (CDB)

NS 1B (Y) (4) INTRODUCTION TO PATIENT CARE II 2 Bhrs. Lab. 6 Bhrs. Lab.
Prerequisites: NS 1A(Y), NS 1C(Y) 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 well-being are introduced in the classroom. Concurrently in clinical assignments, the student relates learned skills and theory to the care of patients with well-defined commonly occurring illnesses in the hospital setting. (CDB)

NS 1C (R) (1.5) PHYSIOLOGY, PSYCHOLOGY, SOCIAL SCIENCE 1.5 Bhrs. Lect.
Prerequisites: 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 calculations and the administration of medications. A skills laboratory requirement is included. Clinical application will be integrated into Nursing 1B (R). (CDB)

NS 1C (Y) (1.5) PHYSIOLOGY, PSYCHOLOGY, SOCIAL SCIENCE 1.5 Bhrs. Lect.
Prerequisites: 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 calculations and the administration of medications. A skills laboratory requirement is included. Clinical application will be integrated into Nursing 1B (Y). (CDB)

NS 2A (R) (5.5) THE MATERNITY CYCLE 2.5 Bhrs. Lect. 9 Bhrs. Lab.
Prerequisites: NS 1B, NS 2B (R) or permission of the instructor. The nurse is taught how 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, psychological, emotional, cultural, and economic factors which have impact on the mother, infant, and family as a whole. Concurrent classroom and clinical experience are provided. (CDB)

NS 2A (Y) (5.5) THE MATERNITY CYCLE 2.5 Bhrs. Lect. 9 Bhrs. Lab.
Prerequisites: NS 1B, NS 2B (Y) or permission of the instructor. The nurse is taught how 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, psychological, emotional, cultural, and economic factors which have impact on the mother, infant, and family as a whole. Concurrent classroom and clinical experience are provided. (CDB)

NS 2B (R) (5.5) COMMON HEALTH PROBLEMS I 2.5 Bhrs. Lect. 9 Bhrs. Lab.
Prerequisites: NS 1B (R) or permission of the instructor. The first of three nine-week courses designed to provide a comprehensive and sequential study of common, well-defined health problems of the respiratory, reproductive and psychiatric 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 all ages. Physiological, psychological, emotional, cultural and social concepts are integrated into the planning and implementation of nursing care. Concurrent classroom and clinical experience are provided. (CDB)

NS 2B (Y) (5.5) COMMON HEALTH PROBLEMS I 2.5 Bhrs. Lect. 9 Bhrs. Lab.
Prerequisites: NS 1B (Y) or permission of the instructor. The first of three nine-week courses designed to provide a comprehensive and sequential study of common, well-defined health problems of the respiratory, reproductive and psychiatric 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 all ages. Physiological, psychological, emotional, cultural and social concepts are integrated into the planning and implementation of nursing care. Concurrent classroom and clinical experience are provided. (CDB)

NS 2C (R) (2) PHARMACOLOGY I 2 Bhrs. Lab.
Prerequisites: NS 1B (R), NS 1C (R) or permission of the Instructor. This course focuses on those components of pharmacology related to safe nursing care. It includes information about the general classification of drugs and principles of therapy related to the effects, administration and therapeutic use of each drug. The nursing actions and rationale for nursing actions are covered. Clinical application is integrated into the clinical nursing courses. (CDB)

NS 2C (Y) (2) PHARMACOLOGY I 2 Bhrs. Lab.
Prerequisites: NS 1B (Y), NS 1C (Y) or permission of the Instructor. This course focuses on those components of pharmacology related to safe nursing care. It includes information about the general classification of drugs and principles of therapy related to the effects, administration and therapeutic use of each drug. The nursing actions and rationale for nursing actions are covered. Clinical application is integrated into the clinical nursing courses. (CDB)

NS 2D (R) (1.5) COMMON HEALTH PROBLEMS II 1.5 Bhrs. Lect.
Prerequisites: NS 1B (R), NS 1C (R) or permission of the Instructor. This course focuses on those components of pharmacology related to safe nursing care. It includes information about the general classification of drugs and principles of therapy related to the effects, administration and therapeutic use of each drug. The nursing actions and rationale for nursing actions are covered. Clinical application is integrated into the clinical nursing courses. (CDB)
The problem the nursing interventions needed for selected patients in the clinical setting. (CSU)

NS 3C (R) (L) PATIENT CARE MANAGEMENT
1 Hrs. Loc.
Prerequisite: MS 2B (R) or permission of the instructor.
To be taken concurrent with MS 2A (R). An overview of the psychiatric, psychological, social, 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)

NE 3A (V) (L) COMMON HEALTH PROBLEMS I
2.5 Hrs. Loc. 12 Hrs. Lab.
Prerequisites: NE 2A (V), NE 2C (V), NE 28 (V), NE 3C (V), or permission of the instructor. The second of three nine-week courses designed to provide a progressive and sequential study of common, well-defined health problems. The final nine-week course designed to provide a progressive and sequential study of common, well-defined health problems is presented. Emphasis is placed on the immune, endocrine, hematologic, cardiovascular, and musculoskeletal systems. Concepts acquired in previous courses are applied with increasing complexity in caring for individuals 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)

NE 3B (R) (L) COMMON HEALTH PROBLEMS II
2.5 Hrs. Loc. 12 Hrs. Lab.
Prerequisites: NE 2A (V), NE 2C (V), NE 28 (V), NE 3C (V), or permission of the instructor. The second of three nine-week courses designed to provide a progressive and sequential study of common, well-defined health problems. Concepts acquired in previous courses are applied with increasing complexity in caring for individuals 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)

NE 3B (R) (L) COMMON HEALTH PROBLEMS III
2.5 Hrs. Loc. 12 Hrs. Lab.
Prerequisites: NE 2A (V), NE 2C (V), NE 28 (V), NE 3C (V), NE 3A (R), or permission of the instructor. The final nine-week course designed to provide a progressive and sequential study of common, well-defined health problems is presented in Nursing 3B. The concepts from previous courses are applied with increasing complexity to the caring of individuals throughout the lifespan. The pathophysiology, treatment, and nursing management of common disorders involving the neurological, integumentary, gastrointestinal and renal systems are studied in a progressive manner across the 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 the clinical setting. (CSU)

NE 3B (R) (L) COMMON HEALTH PROBLEMS IV
2 Hrs. Loc. 7.5 Hrs. Lab.
Prerequisite: NE 3B (R), NE 3C (R) or permission of the instructor. This course is concerned with an individual's response to stress and crisis. The promotion of mental health, intervention in maladaptive disorders, and the rehabilitation of chronic disorders is presented in the classroom and clinical settings. Cultural and social attitudes toward behavior which deviates from accepted norms is discussed. (CSU)

NE 4A (R) (L) ADVANCED NURSING LAB
2 Hrs. Loc. 7.5 Hrs. Lab.
Prerequisite: NE 3B (R), NE 3C (R) or permission of the instructor. In-depth study of patients with increasingly complex health problems is presented. The nursing process is used to study and implement nursing care for a group of patients. Concurrent clinical experience in geriatric and advanced medical-surgical nursing is arranged. (CSU)

NS 4C (R) (R) NURSING TECHNIQUES I
1 Hrs. Loc.
Prerequisite: NS 4A (R) or permission of the instructor. Current issues affecting nursing are discussed. Legislation, health care delivery system, and legal and ethical aspects of health care are integrated into the clinical component of NS 4A. Upon successful completion of NS 4B and NS 4C, the student is eligible to write the examination for Registered Nurse. (CSU)

NS 5 (1-3) NURSING TRANSITION COURSE
1-3 Hrs. Loc.
Prerequisite: Completion of advanced placement requirements or permission of the instructor. This course is designed to prepare the advanced placement student to enter the clinical level of the Associate Degree Nursing program. Students may take variable units from one to three, according to their placement status. Content includes the nursing process, fluids and electrolytes, pharmacology, maternity nursing and nursing interventions for selected health conditions. (CSU)

NS 6 (1) NURSING TRANSITION COURSE
1 Hrs. Loc.
Prerequisite: Completion of advanced placement requirements and admission to the Nursing Program, this course is designed to prepare the health assistant to obtain advanced standing in the vocational nursing continuing education courses to be offered. New courses are offered periodically as community health agency and health personnel needs are identified. An enrollment fee will be charged. All courses have been approved by the California Board of Registered Nursing, RNR Provider No. 00293, and meet the requirements for relicensure.

NURSING CONTINUING EDUCATION
Registered Nursing

Prospective students are advised to check with the college prior to each semester concerning continuing education courses to be offered. New courses are offered periodically as community health agency and health personnel needs are identified. An enrollment fee will be charged. All courses have been approved by the California Board of Registered Nursing, RNR Provider No. 00293, and meet the requirements for relicensure.

VM 57 (1) BASIC ANATOMY RECOGNITION
1 Hrs. Loc.
Prerequisite: Permission of the instructor. A basic program using a systematic approach to interpretation and recognition of cardiac arrhythmias in the monitored hospital patient and the appropriate treatment and/or nursing interventions needed for selected patients in the classroom and clinical situations. (Nontransferable, AVA to be determined) (CSU)

VM 60 (2) INTRAVENOUS THERAPY TECHNIQUE
7 Hrs. Loc.
Prerequisite: Permission of the instructor. A course in intravenous therapy which includes fluid solutions of electrolytes, nutrients, vitamins, blood and blood products. (Same as VN 60) (CSU)

VM 41 (3) PHYSICAL ASSESSMENT SKILLS
3 Hrs. Loc.
Prerequisite: Permission of the instructor. Class is limited to fifteen (15) students. This course is designed to develop knowledge of normal parameters and variations common to the adult patient. Students will be given the opportunity to learn how to make rapid, accurate patient assessments. They will identify and discuss common findings, observe assessment techniques and do return demonstrations. Individuals who wish to improve their physical assessment skills are the focus of this course. (CSU)

Vocational Nursing

Prospective students are advised to check with the college prior to each semester concerning continuing education courses to be offered. New courses are offered periodically as community health agency and health personnel needs are identified. An enrollment fee will be charged. All courses have been approved by the California Board of Vocational Nurse and Psychiatric Technician Examination, RNR Provider No. 00293, and meet the requirements for relicensure.

NOTATION

MU 1 (3) SANITATION AND SAFETY CONTROL
3 Hrs. Loc.
Prerequisite: Permission of the instructor. This course includes the basic principles of sanitation and safety and the application of these principles to a food service operation including OSHA regulations. Emphasis will be placed on the principles of food preparation and storage, safety procedures and programs and fire prevention and control. (CSU)

MU 2 (3) PERIMETERS OF NUTRITION
3 Hrs. Loc.
Prerequisite: Permission of the instructor. The scientific concept of nutrition relating to the food preferences of patients in the basic life processes. Examines the major aspects of nutritional services within a health care facility, community or related food service programs. This course includes child and adult nutrition application to basic food and service programs. (CSU)
PHILOSOPHY

PHIL 1A (3)  (CMN PHIL 2)
Introduction to Philosophy
3 hrs. LeC.
Man's interpretation of the nature and meaning of reality. Emphasis placed upon the existence of God, free will and mind-body problems. (CSU, UC)

PHIL 10 (3)  (CMN PHIL 6)
Logic
3 hrs. LeC.
An introduction to deductive and inductive logic. Attention focused upon the relationship between logic and language forms, and the use of logic in everyday life. (CU, UC)

PHIL 25 (3)  (CMN PHIL 5)
Religions of the Modern World
3 hrs. LeC.
An introduction to the various contemporary religions of the world with an emphasis on their historical development. Study of basic beliefs of such religions as Hinduism, Buddhism, Taoism, Zen. (CSU, UC)

PHYSICAL EDUCATION

UNLESS EXCEPTED, EACH STUDENT IS REQUIRED TO SCHEDULE ONE ACTIVITY COURSE EACH SEMESTER. A STUDENT MAY SCHEDULE MORE THAN ONE ACTIVITY COURSE EACH SEMESTER, BUT NOT IN THE SAME SPORT OR PHYSICAL EDUCATION ACTIVITY. THE COURSE OPTIONS ARE AS FOLLOWS:

PE 3A8CD (1-1-1)
Physical Fitness, Men
2 hrs. Lab.
Course designed to present the basic fundamentals of volleyball such as the serve, setting, spiking, and fundamentals which can be used to maintain physical fitness throughout college and adult life. (CSU) (UC credit limited. See a counselor.)

PE 3B8CD (1-1-1)
Physical Fitness, Women
2 hrs. Lab.
Course designed to present the basic fundamentals of volleyball such as the serve, setting, spiking, and fundamentals which can be used to maintain physical fitness throughout college and adult life. (CSU) (UC credit limited. See a counselor.)

PE 11A8CD (1-1-1)
Volleyball, Coed
2 hrs. Lab.
This course is designed to present the basic fundamentals of volleyball such as the serve, setting, spiking, and fundamentals which can be used to maintain physical fitness throughout college and adult life. (CSU) (UC credit limited. See a counselor.)

PE 12A8CD (1-1-1)
Tennis, Coed
2 hrs. Lab.
Tennis offers training in the basic fundamentals of the game including history, rules, and etiquette. Social aspects of the game are stressed with the 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.
Prerequisite: PE 12A8CD or approval of the instructor. Revised and practice of forehand, backhand, serve and volley, overhead smash, and lab. Emphasis on court strategy and tactics for singles and doubles competition. (CSU) (UC credit limited. See a counselor.)

PE 15A8CD (1-1-1)
Advanced Volleyball, Coed
2 hrs. Lab.
Prerequisite: Student must have completed four classes of PE 12A8CD. Demonstrates competency in advanced skills. Continuation of PE 11A8CD. More advanced volleyball skills. More emphasis on tournament play and advanced strategy. More emphasis will be placed on spiking and blocking. (CSU) (UC credit limited. See a counselor.)

PE 15B8CD (1-1-1) Advanced Physical Fitness, Coed
2 hrs. Lab.
Prerequisite: Completion of four semesters of PE 11A8CD and/or PE 3A8CD or permission of the instructor. Advanced instruction and practice of exercises and conditioning and body building practice and techniques. Emphasis placed on maximum development with more time devoted to individual programs of proper exercise and nutrition. (CSU) (UC credit limited. See a counselor.)

PE 17A8CD (1-1-1)
Physical Fitness, Men
2 hrs. Lab.
This course is designed to emphasize physical conditioning and development. Equips the student with the repertore of exercises and conditioning activities which can be used to maintain physical fitness throughout college and adult life. (CSU) (UC credit limited. See a counselor.)

PE 17B8CD (1-1-1)
Physical Fitness, Women
2 hrs. Lab.
This course is designed to emphasize physical conditioning and development. Equips the student with the repertore of exercises and conditioning activities which can be used to maintain physical fitness throughout college and adult life. (CSU) (UC credit limited. See a counselor.)

HEALTH AND SAFETY INSTRUCTOR TRAINING
1 hr. LeC. 2 hrs. Lab.
Prerequisites: Lifeguard Training Certificate and/or Advanced Lifesaving for the W.S.I. Certificate. A course designed to acquaint the student with the basic principles of being an aquatic instructor in the areas of infant and preschoool children, progressive swimming in the following levels: A. Beginners; B. Advanced Beginners; C. Intermediate; D. Swimmers; E. Advanced Swimmers in addition to teaching Basic Water Safety. (CSU, UC)

PE 7A8CD (2-2-2)
Water Safety Instructor Training
1 hr. LeC. 2 hrs. Lab.
Prerequisites: Lifeguard Training Certificate and/or Advanced Lifesaving for the W.S.I. Certificate. A course designed to acquaint the student with the basic principles of being a water safety instructor in the areas of infant and preschool children, progressive swimming in the following levels: A. Beginners; B. Advanced Beginners; C. Intermediate; D. Swimmers; E. Advanced Swimmers as well as the methods for teaching Basic Water Safety. (CSU, UC)

PE 18A8CD (2-2-2)
Water Safety Instructor Training
1 hr. LeC. 2 hrs. Lab.
Prerequisites: Lifeguard Training Certificate and/or Advanced Lifesaving for the W.S.I. Certificate. A course designed to acquaint the student with the basic principles of being a water safety instructor in the areas of infant and preschool children, progressive swimming in the following levels: A. Beginners; B. Advanced Beginners; C. Intermediate; D. Swimmers; E. Advanced Swimmers as well as the methods for teaching Basic Water Safety. (CSU, UC)

PE 19A8CD (1-1-1)
Adapted Physical Exercises, Coed
2 hrs. Lab.
Open only to students who are unable to participate in the regular campus recreation program. The course is specifically designed to meet the individual needs of these students. (CSU) (UC credit limited. See a counselor.)

PE 10A8CD (1-1-1)
Team Sports
2 hrs. Lab.
The course is designed to stimulate the development of mental and physical alertness and to encourage participation in a variety of sports. Includes coedational activities. (CSU) (UC credit limited. See a counselor.)

PE 10B8CD (1-1-1)
Golfleagues
2 hrs. Lab.
Offers training in the fundamentals of strokes with instruction in the basic rules and etiquette of the game. Actual participation upon a golf course and the worthy use of leisure time are emphasized. (CSU) (UC credit limited. See a counselor.)
PE 2MNDC (1-1-1) ADVANCED GOLF, COED
2 Hrs. Lab.
Prerequisite: Permission of the instructor. Advanced training in strokes with irons, woods, and putters of the game and emphasis on strategies and tournament play. (CSU) (UC credit limited. See a counselor.)

PE 2MNDC (1-1-1) SOFTBALL, COED
2 Hrs. Lab.
This course is designed to emphasize the fundamentals, knowledge of rules, coaching techniques, and basic knowledge of the game of softball. (CSU) (UC credit limited. See a counselor.)

PE 2MNDC (2-2-2) ADVANCED SPORTS ACTIVITY, COED
1 Hr. Lab.
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 basketball. The course will cover basic fundamentals as well as advanced team strategies found in competitive situations. A minimum of fifteen hours per semester for each student is required in outside activities such as community sports and recreational programs. (CSU) (UC credit limited. See a counselor.)

PE 2MNDC (1-1-1) BASKETBALL AND HANDBALL, COED
2 Hrs. Lab.
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 2MNDC (1-1-1) BASKETBALL FOR WOMEN
2 Hrs. Lab.
Designed for women students interested in basketball. To offer basic and advanced fundamentals, team play, and strategy. (CSU) (UC credit limited. See a counselor.)

PE 2MNDC (1-1-1) INDOOR DANCE, COED
2 Hrs. Lab.
Participation and instruction in rhythmic fundamentals, factors related to movement, movement fundamentals and dance ability, creative activity, and evaluation. Designed to develop the student's ability to use expressive body movements in a creative art form. More complex individual dance sketches and small group dance studies. (CSU) (UC credit limited. See a counselor.)

PE 2MNDC (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 minimum of five outside performances required each semester. Meets physical education activity requirement. (CSU) (UC credit limited. See a counselor.)

PE 2MNDC (1-1-1) JAZZ DANCE, COED
2 Hrs. Lab.
A study of syncopated movement. (CSU) (UC credit limited. See a counselor.)

PE 2MNDC (2-2-2) INTERCOLLEGIATE SOFTBALL AND P.E.
3 Hrs. Lab.
Theory and practice of women's softball. 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 2MNDC (1-1-1) SELF-DEFENSE
2 Hrs. Lab.
A study of the art of self-defense through boxing, wrestling and elements of marital arts as it relates to self-defense. (Formerly AdE AS 25) (CSU)

PE 2MNDC (1-1-1) GROUP SPORTS FOR THE PHYSICALLY LIMITED
2 Hrs. Lab.
This course is designed to promote individual skill development for the physically limited student. (CSU) (UC credit limited. See a counselor.)

PE 2MNDC (1-1-1) INTERCOLLEGIATE VOLLeyBALL, COED
2 Hrs. Lab.
Structured Intramurals
1 Hr. 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 tournaments through playing in the IVC Intramural program. (CSU)

PE 52A (2-2) THEORETICAL BASEBALL
2 Hrs. Lab.
A history of the game, knowledge of rules, current and possible future trends in the game, coaching techniques, and scouting. Recommended for physical education majors, potential coaches, and recreation majors. (CSU) (UC credit limited. See a counselor.)

PE 52A (2-2) THEORETICAL THERAPY OF BASEBALL
2 Hrs. Lab.
A history of the game, knowledge of rules, current and possible future trends in the game, coaching techniques, and scouting. Recommended for physical education majors, potential coaches, and recreation majors. (CSU) (UC credit limited. See a counselor.)

PE 52B (2-2) THEORETICAL BASKETBALL, COED
2 Hrs. Lab.
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 52C (2-2) CARE AND PREVENTION OF ATHLETIC INJURIES
2 Hrs. Lab.
This course is designed for the coach, coach-trainer, physical education and recreation student. Emphasizes the screening and conditioning of athletes, prevention, care and treatment of athletic injuries. Includes techniques of applying supportive materials, rehabilitation of injuries, and use of therapeutic modalities. Organization of a new athletic training program. (CSU) (UC credit limited. See a counselor.)

PE 58 (2) PSYCHOLOGY OF COACHING
2 Hrs. Lab.
Prerequisite: Sophomore status or permission of the instructor. A course covering all the aspects of the psychology of coaching sports. Includes certain guidelines to show how teaching and learning may be applied to the coaching of sports, and to bring out the relationship of meaningful learning to successful athletic coaching. (CSU) (UC credit limited. See a counselor.)

PE 59AE (3-3) SPORTS OFFICIATING, MENS
2 Hrs. Lab. 3 Hrs. Lab.
Theory and practice in the techniques of officiating in highly organized games and sports such as basketball, football, wrestling, baseball, track, and tennis. Students must plan for an additional three hours per week to officiate at elementary schools. (CSU) (UC credit limited. See a counselor.)

PE 60B (3-3) SPORTS OFFICIATING, WOMEN
2 Hrs. Lab. 3 Hrs. Lab.
To familiarize prospective physical education majors and minors with the rules of teams and individual sports for women. (CSU) (UC credit limited. See a counselor.)

PE 61 (3) PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL
3 Hrs. Lab.
This course is designed to prepare the elementary school teacher to teach the whole child through physical education. (CSU)

PE 61A (3-3) PHYSICAL EDUCATION FOR SPECIAL OLYMPICS
2 Hrs. Lab. 2 Hrs. Lab., plus 2 Hrs. Lab. to be arranged. A course designed to train college students to condition and prepare retarded persons for competition in Special Olympics. (CSU) (UC credit limited. See a counselor.)

PHYSICS

PHS 25 (4) INTRODUCTION TO PHYSICAL SCIENCE
3 Hrs. Lab. 3 Hrs. Lab.
Selected topics in physical science. The relations of physics to modern life through emphasis on the scientific method. Designed for those intending to take only one semester of physical science. May be combined with BIO 3 for a year course in the basic principles of natural science. (CSU) (UC credit limited. See a counselor.)

PHS 44 (5) GENERAL PHYSICS
(CAN PITS 8)
3 Hrs. Lab. 4 Hrs. Lab.
Prerequisites: Credit for or concurrent enrollment in Math 3A. This course is designed to give an understanding of the fundamental principles of physics in the area of mechanics. (CSU) (UC credit limited. See a counselor.)
Prerequisites: Math 44 and credit or concurrent enrollment in Math 36. This course is designed to give an understanding of the fundamental principles of physics in the areas of electricity, magnetism, atomic, and nuclear physics. (CSU) UC credit limited. See a counselor.

**PHYSICS 4C (5)**
(CAN PHYS 88B) 3 hrs. Lab. 6 hrs. Lab.
Prerequisites: Math 44 and credit or concurrent enrollment in Math 36. This course is designed to give an understanding of the fundamental principles of physics in the areas of waves, heat, light, relativity, quantum mechanics and atomic physics. (CSU) UC credit limited. See a counselor.

**PHYSICAL EDUCATION**
(CAN BIOL 12) 2 hrs. Lab. 6 hrs. Lab.
Prerequisites: One year of high school chemistry and biology or one semester each at the college level or a current California LVN License. The functions of the human body; emphasis on the circulatory, muscular, and nervous system. (CSU) UC credit limited. See a counselor.

**POLITICAL SCIENCE**

**POLYSCI 1 (3)**
INTRODUCTION TO POLITICAL SCIENCE
An introduction to the theories, principles, and problems of modern political life and the methods of studying and acquiring political knowledge. Illustrative materials drawn primarily from the American experience. This course and either Poly SCI 2 or Hist 176 will meet graduation requirements in American institutions. (CSU, UC)

**POLYSCI 2 (3)**
(CAN GOVT 2) AMERICAN GOVERNMENT AND POLITICS
3 hrs. Lab. The origin, development and operation of local, state and national political institutions in the United States emphasizing the contemporary operations of the American political system. This course and either Poly SCI 1 or Hist 176 will meet graduation requirements in American institutions. May be taken before Poly SCI 1. (UC, CSU)

**POLYSCI 3 (3)**
COMPARATIVE POLITICS
3 hrs. Lab. Prerequisite: Poly SCI 1 or 2. A comparative study of modern political systems. Emphasis upon patterns of political action and problems of decision-making in various cultural contexts. (CSU, UC)

**POLYSCI 54 (2)**
INTRODUCTION TO INTERNATIONAL RELATIONS
3 hrs. Lab. An introductory course stressing the techniques of analysis of the basic factors making for conflict and adjustment in contemporary international relations. Problems of war and peace; the role of international organizations, and the foreign policies of the major powers will be considered. Emphasis will be upon contemporary developments. (CSU, UC)

**PSYCHOLOGY**

**PSYCH 1A (3)**
(CAN PSY 1) INTRODUCTION TO PSYCHOLOGY
3 hrs. Lab. Prerequisite: Twelfth grade reading level ability is strongly recommended. An introduction to the study of human behavior and cognition. Includes consideration of many of the major topics in psychology including, but not limited to, the biology of behavior, learning, human development, sleep and consciousness, personality, mental disorders and therapy, and social processes. (CSU, UC)

**PSYCH 1B (3)**
LEARNING
3 hrs. Lab. 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 implications, and higher cognitive processes will be examined. (CSU, UC)

**PSYCH 2 (3)**
BIOLOGICAL PSYCHOLOGY
3 hrs. Lab. Prerequisite: Twelfth grade reading level highly recommended. Completion of Psych 1A recommended. An exploration of the biological basis of human behavior. The development, structure and functions of the nervous system is studied, and aimed to provide insight into its complex relationship with human behavior, thought, and feeling. The biology of neuroscience and methods of scientific inquiry are reviewed. (CSU, UC)

**PSYCH 3 (3)**
PSYCHOLOGY OF ADJUSTMENT
3 hrs. Lab. Prerequisite: Twelfth grade reading level strongly recommended. A study of the development of effective behaviors, examined on individual behavior such as self-control, stress and emotional reactions; self-image, motivation, social perception, lifestyle development and the major psychological theories, which address these behaviors. Effective group behaviors including interpersonal relationships, marriage, sex, and society are also examined. (CSU)

**PSYCH 4 (3)**
PSYCHOLOGY OF LANGUAGE
3 hrs. Lab. A study of the psychology of human sexuality. Includes anatomy and physiology of sexual functions, sexual dysfunctions, sexually transmitted diseases, infertility, contemporary sexual attitudes and behaviors, sexual deviances, and controversies and implications for the individual and the society. (CSU, UC)

**PSYCH 5 (3)**
PSYCHOLOGY OF EFFECTIVE BEHAVIOR
3 hrs. Lab. An overview of some of the relevant psychological facts, principles, and theories involved in the experience and problems of everyday living. An experimental approach, including emphasis upon effective behavioral alternatives in parenting, interpersonal, social relationships, roles clarification, and methods for successful study, and the art of taking responsibility for one's own life. (CSU)

**PSYCH 6 (5)**
CURRENT ISSUES IN PSYCHOLOGY
3 hrs. Lab. Prerequisite: Completion of or concurrent enrollment in either Psych 1A, Psych 1B, Soc 1 or Soc 17 is recommended or permission of the instructor. This course views drug use behavior from a sociological and psychological perspective. It includes an analysis of factors contributing to drug use; societal influence (peer group and the family), and personal psychodynamics and development. It encompasses illegal drug use as well as legal drug use, particularly of alcohol. Potential solutions and preventive methods which could be of practical value to parents and various professional and semiprofessional workers will be addressed. (Same as AIDS 15/Soc 15) (CSU)

**PSYCH 16 (3)**
THE PSYCHOLOGY OF INTERPERSONAL RELATIONSHIPS
3 hrs. Lab. An investigation of the dynamics of interpersonal relationships. Starts, developing, understanding, and improving one's relationships with others will be the focus of this course. Topics will include love, jealousy, anger, sex and aggression, communication skills, perception of self and others, and self-disclosure. The course involves lectures, discussion, and experimental techniques. (Same as HR 16) (CSU)
PSYCH 17 (3) 
SOCIAL PSYCHOLOGY 
3 hrs. Lec.
The study of how personality and behavior are influenced by the social context. Major concepts, problems, and theories related to the individual and society. Includes construction of meaning, self-concept and social identity, group behavior and group membership. (Same as Social 17) (CSU, UC)

PSYCH 18 (1) 
RESEARCH IN PSYCHOLOGY 
1 hr. Lec.
Prerequisites: Successful completion of Psych 1A or any other psychology class is recommended. An introduction to the scientific method and related research used in psychology. The class will work closely to learn and carry out the basic steps in the research process. (CSU)

PSYCH 19 (3) 
THE PSYCHOLOGIST OF LOSS 
3 hrs. Lec.
The grief process will be explored as well as how one can help a person resolve a personal loss, whether it be illness, divorce, death, separation, the aging process, illness, retirement, changing 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 a 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." (CSU)

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) 
ADVANCED DEVELOPMENTAL PSYCHOLOGY 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.
(Same as ECE 27/FI 13) (CSU)

PSYCH 30 (3) 
PSYCHOLOGY OF ADOLESCENCE 
3 hrs. Lec.
A study of human development from pre-adolescence through early and later adolescence to young adulthood. The course includes practical aspects of dealing with adolescent influences, settings and problem areas. (CSU) (UC credit limited. See a counselor.)

PSYCH 35 (3) 
DEVELOPMENTAL PSYCHOLOGY: CONCEPTION TO DEATH 
3 hrs. Lec.
A study of human development from conception to death, including conception, pre-adolescent development, infancy, childhood, adolescence, early adulthood, middle childhood, adolescence, early adulthood, middle adulthood, later adulthood. How individuals develop, change, and adapt throughout their life span is examined. Major theories of development, current research, and major developmental tasks. (CSU) (UC credit limited. See a counselor.)

PSYCH 40 (3) 
INTRODUCTION TO CRISIS COUNSELING 
3 hrs. Lec.
Prerequisite: Psych 1A. A course designed to familiarize the student with a basic understanding of the crisis phenomenon and the various crises of emotional illness, especially relevant to crisis situations. (CSU)

PSYCH 55 (3) 
GROUP LEADERSHIP AND GROUP PROCESS 
5 hrs. Lec.
(Same as ADS 55) (CSU)

PSYCH 55S (3) 
CRISIS INTERVENTION AND REFERRAL TECHNIQUES 
3 hrs. Lec.
(Same as ADS 55) (CSU)

RECREATION 

REC 70 (3) 
INTRODUCTION TO LEISURE 
3 hrs. Lec.
Prepresents the basic ideas and problems in our contemporary society and projects this thinking into the future. When greater amounts of leisure time will be at our disposal, the student will need some leisure activity 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 RECREATION 
3 hrs. Lec.
Theory and activity course designed to present instruction, material, and information necessary to effectively conduct social recreation in clubs, playgrounds, churches, and camps. Emphasis is on the social development and integration of individuals into group programs, including planning, programming, and conducting social recreation activities. (CSU)

REC 72 (3) 
COMMUNITY RECREATION 
2 hrs. Lec. 3 hrs. Lab.
History, development, principles, and trends of organized camping, nature and conservation, and outdoor recreation. Laboratory and field trips, including camping and hiking activities. Practical skills in firecrafts, outdoor cooking and backpacking. Leadership training in camp counseling. Required for recreation majors. (Will not satisfy PE requirement.) (CSU)

REC 75 (4) 
RECREATION FOR SPECIAL GROUPS 
2 hrs. Lec. 2 hrs. Lab.
Field work in therapeutic recreation in the community. The special groups emphasis area is dedicated to understanding and serving individuals and groups in our society who have special recreational needs. Students must plan for two additional hours by arrangement. (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. Not open to students with credit in Hist 178A or Poli Sci 1, 2. (Nontransferable. AA/AS degree only)

SOCIOL 1 (3) 
INTRODUCTORY SOCIOLOGY 
3 hrs. Lec.
An introductory course to the study of society. Major ideas, concepts, and methods in the study of society to include culture, social structure, social stratification, deviance and social control, social change, and marriage in the family. (CSU, UC)

SOCIOL 2 (3) 
CONTEMPORARY SOCIAL PROBLEMS 
3 hrs. Lec.
This course deals with contemporary social problems and will cover those areas that are currently being defined by our society as problem issues. Emphasis is given to understanding the problems on the societal level, the group level, and from the standpoint of the individual. (CSU, UC)

SPANISH 

High school Spanish courses may be used to meet the prerequisites of advanced Spanish courses at IvC only if they include training in all four basic language skills: listening, speaking, reading, and writing. The courses must have included phonetics, practice in both guided and free conversation as well as in reading aloud; testing and listening comprehension will be done from dictation; and word-picture association. These high school courses will count as college credit toward graduation. Placement will be made by examination and/or consent of the instructor. Contact the IVCC 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 advanced placement, at least one course in Spanish must have been taken the year prior to entering college; otherwise, it is suggested that the student enroll in Span 1.

The above requirements may be waived by examination or by consent of the instructor.

SPAN 1 (3) 
ELEMENTARY SPANISH 
3 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 enrollment in Span 5A is recommended. The beginning Spanish course is based on a content analysis between Spanish and English and is designed to develop the English-speaking student's receptive-abilities in the four basic language skills: hearing, speaking, reading, and writing. The main emphasis is on the present tense of both regular and irregular verbs. The student will be familiarized with those features of Hispanic culture that reflect the different frame of reference from which the native speaker of Spanish views the world. (CSU, UC)
Spanish 1A (2.5) ELEMENTARY 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 18 sequence will be the equivalent of Span 1, and the total of 5 units. (CSU) (UC credit limited. See a counselor.)

Spanish 1B (2.5) ELEMENTARY SPANISH 2.5 hrs. Lec. Prerequisite: Span 1A. The student must be able to speak and read English. For additional oral practice, concurrent enrollment in Span 5A is recommended. This course is one-half the content of the regular Span 1 course. Completion of Span 1A and 18 sequences will be the equivalent of Span 1, and the total of 5 units. (CSU) (UC credit limited. See a counselor.)

Spanish 2 (5) ELEMENTARY SPANISH 5 hrs. Lec. Prerequisite: The student must be able to speak and read English. The student can be successful in Span 2 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 Spanish course with good retention should enable the student to succeed in Span 2. For additional oral practice, concurrent enrollment in Span 5B is recommended. A continuation of Span 1 with the main emphasis on the imperfect, pretérito, and present perfect forms for both regular and irregular verbs. (CSU, UC)

Spanish 2A (2.5) ELEMENTARY SPANISH 2.5 hrs. Lec. Prerequisite: The student must be able to speak and read English. The student can be successful in Span 2A only after having achieved all of the minimal performance objectives specified for Span 1A. A recent course in Span 1, 18 or a recent 2 year high school Spanish course with good retention should enable the student to succeed in Span 2A. This course is one-half the content of the regular Span 2 course. Completion of the Span 2A and 28 sequence is the equivalent of the span 2 course for the equivalent of 5 units. A continuation of Span 1 or Span 1B. (CSU) (UC credit limited. See a counselor.)

Spanish 2B (2.5) ELEMENTARY SPANISH 2.5 hrs. Lec. Prerequisite: The student must be able to speak and read English. For additional oral practice, concurrent enrollment in Span 5B is recommended. The student can be successful in Span 2B only after having achieved all of the minimal performance objectives specified for Span 2A. This course is one-half the content of the span 2 course. Completion of the Span 2A and 28 sequence is the equivalent of the span 2 course. This is a continuation of Span 2A. (CSU) (UC credit limited. See a counselor.)

Spanish 3 (5) INTERMEDIATE SPANISH 5 hrs. Lec. Prerequisite: 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 Span 1 and 2. Either a recent course in Span 2 or a recent 3 year high school Spanish course with good retention should enable the student to succeed in Span 3. A continuation of Span 2 covering in Span 2A, 2B or both. All Spanish tenses with special emphasis on the subjunctive and imperative modes. (CSU) (UC credit limited. See a counselor.)

Spanish 4 (5) INTERMEDIATE SPANISH 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 achieved all of the minimal performance objectives specified for Span 1, 2, and 3. A recent course in Span 3 or the recent completion of 4 years of high school Spanish with good retention should enable the student to succeed in Span 4. A continuation of Span 3 with emphasis on all of the reading and writing skills. The student will work with all tenses and modes of the Spanish language. (CSU) (UC credit limited. See a counselor.)

Spanish 5A (2.5) BEGINNING CONVERSATIONAL SPANISH AND CULTURE 2.5 hrs. Lec. A course designed to give the student a basic ability in everyday Spanish. The course will emphasize vocabulary-building, conversation skills, listening and comprehension, and culture. (CSU)

Spanish 5B (2.5) BEGINNING CONVERSATIONAL SPANISH AND CULTURE 2.5 hrs. Lec. Prerequisite: Span 5A or by examination. Concurrent enrollment in Span 5B is recommended. A continuation of Span 5A. (CSU)

Spanish 20A (5) BILINGUAL SPANISH 5 hrs. Lec. Prerequisite: Spanish speaking fluency, native or near-native or 3 years of high school Spanish. The course is designed to develop in the student the four basic language skills of listening, speaking, reading, and writing with a constant comparison between Spanish and English usage. Emphasis will be on the indicative tenses: present, pretérito, imperfect, and future. These skills will be explored through reading in the contemporary culture of Spain, Latin America, and the Spanish-speaking countries in the United States - Mexico, Cuba, Puerto Rican, and Sephardic. (CSU) (UC credit limited. See a counselor.)

Spanish 20B (5) BILINGUAL SPANISH 5 hrs. Lec. Prerequisite: Span 20A or four years of high school Spanish. An intensive course in Spanish for students who have learned Spanish as a native language. It is intended for students who may read and write good Spanish but need more practice in oral structures. This course will include a brief grammar review and discussion of relevant everyday topics of social concern. Concurrent enrollment in Span 20B is recommended, but not required. (CSU) (UC credit limited. See a counselor.)

Spanish 25 (5) INTRODUCTION TO SPANISH AMERICAN LITERATURE 3 hrs. Lec. Prerequisites: Four years of high school Spanish or equivalent. Introductory survey of representative movements, authors, and works of Spanish American literature from the Spanish Discovery to the present. Course conducted in Spanish. (CSU, UC)

Spanish 26 (5) INTRODUCTION TO TRANSLATION AND INTERPRETATION 2 hrs. Lec. 2 hrs. Lab. 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)

Spanish 29A (5) THE MEXICAN AMERICAN LITERATURE 3 hrs. Lec. (Same as Eng 446A) (CSU, UC)

Spanish 29B (3) THE MEXICAN AMERICAN LITERATURE 3 hrs. Lec. (Same as Eng 446B) (CSU, UC)

Spanish 42 (3) INTRODUCTION TO MEXICAN AMERICAN STUDIES 3 hrs. Lec. An interdisciplinary survey of the historical role, culture, values, and artistic contributions of the Mexican Americans to the United States. From 1836 to the present. Course conducted in English. (CSU, UC)

Spanish 50A (5) INTRODUCTION TO MODERN SPANISH 5 hrs. Lec. This course is designed to give students an introduction to the Spanish language. (CSU) (UC credit limited. See a counselor.)

Spanish 55 or 85 (1-3) SOCIAL SCIENCE

Hours by arrangement

Spanish 56 or 86 (1-3) BUSINESS

Hours by arrangement

Special Studies 57 or 87 (1-3) HEALTH, PHYSICAL EDUCATION AND RECREATION

Hours by arrangement

Special Studies 51-87 COURSE on SPECIAL TOPIC

Course content, prerequisites, and unit credit to be determined by the Division and the Office of Instruction in relation to community-student interest and available staff. Not offered every semester. Courses numbered 52-55 are (UC credit limited. See a counselor.) Courses numbered 51, 56 and 57 are (CSU). Courses numbered 81-87 are (nontransferable).

Special Studies 58 SUPERVISED TUTORING

An individualized course of study in any discipline using materials available in the Learning Center; nontransferable. (Nondegree Applicable)

Speech

Sp 1 (3) ORAL COMMUNICATION 3 hrs. Lab.

Training in the fundamental processes involved in oral communication with emphasis on organizing material, outlining, constructing, and delivering various forms of speeches. (CSU) (UC credit limited. See a counselor.)

Sp 24A (5-3) INTERMEDIATE PUBLIC SPEAKING 5 hrs. Lec. Prerequisite: Sp 1, a continuation of Sp 1 with particular emphasis on organization and delivery, and study in the areas of parliamentary procedure, debate, discussion, and oral reading. (CSU) (UC credit limited. See a counselor.)

Sp 10 (5) ARGUMENTATION AND DEBATE 3 hrs. Lec.

Prerequisite: Sp 1, taken previously or concurrently. An introduction to the problems of evidence and inference, with emphasis on the application of logic to rational discussion of social problems. (CSU, UC)

Water Treatment Technology

Ut 1 (4) WATER TREATMENT PLANT OPERATOR I 4 hrs. Lec.

This course will provide information needed to operate a basic wastewater treatment plant as efficiently as possible. Course will consist of water sources and treatment analysis, fundamentals of coagulation, filtration, disinfection, corrosion control, taste and odor control, laboratory procedures, and plant operation and audit. (CSU)
WELD 314 (2) OXY-AcETYLENE WELDING 1 Hr. 1 Lab. Theories, practice and application of joints made by oxy-acetylene processes, including metal cladding, cutting with gas and oxy-acetylene welding. This course, together with Weld 315, is equivalent to Weld 314. Not open to students who have completed Weld 315. (CSU)

WELD 315 (3) ADVANCED WELDING 3 Hrs. 2 Labs. A beginning study of arc welding for the technology oriented student. The course consists of theory, practice and application of different joint welding techniques and applications. The subjects covered are: welding of structural plate; fractions; decimals; percentages; volume; metric system conversion; and estimation. (CSU)

WELD 354 (3) SINTER GAS SHIELDED ARC WELDING 2 Hrs. 3 Labs. Theory, practice and application of tungsten-inert-gas processes on aluminum, stainless steel, mild steel, and other exotic materials. (CSU)

WELD 360 (5) ADVANCED WELDING 3 Hrs. 6 Labs. Prerequisites: Weld 355 or permission of the instructor. A concentrated course in shielded metal arc welding. The student develops higher skill level to a professional entry level. Includes a review of oxy-acetylene cutting and safety. (CSU)

WELD 365 (5) ADVANCED WELDING 3 Hrs. 6 Labs. Prerequisites: Weld 355 or permission of the instructor. Emphasis is on skill development for shielded metal arc welding of pipe and heavy structural plate. Gas metal arc welding processes are expanded 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 course. (CSU)

WELD 366 (4) ADVANCED WELDING - WELDER CERTIFICATION AND BLUEPRINT READING 3 Hrs. 6 Labs. Prerequisites: Completion of Weld 365 or permission of the instructor. Emphasis is on the application of welder skills to the reading and interpretation of blueprints. Examination is given in the welding of the final phase of the Welding Technology Program. A detailed study of blueprint reading is included to further develop the welder's abilities. (CSU)

WELD 38 (2) SHEET METAL FUNDAMENTALS 1 Hr. 2 Labs. Theory and practice in the fundamentals of planning, layout, pattern development and fabrication of flat sheet metal into useful products. (CSU)

ADVANCED WELDING OR PERSONAL EFFICIENCY

Cooperative Work Experience Education is a cooperative educational program by Imperial Valley Community College and the community employers. It is an approved program of activities and objectives which is evaluated by the college. The college provides the organization, the class facilities and the personnel to coordinate the program. The employers provide places to work (job sites) and on-the-job training which has educational value. Sixteen units of work experience education may be allowed toward graduation with the Associate Degree. All students are required to be entered in a certificate or degree program. General work experience courses are not approved for veteran's benefits.

WELD 75 (3) BASIC SHEET SKILLS 3 Hrs. Lab. (Same as Aget 75/Auto Tech 75) (Nontransferable, AA/AS degree only)

COOPERATIVE WORK EXPERIENCE

Laboratory work will be arranged with the employer. The work must be in the field of the student's planned course of occupational training. (CSU)

ME OCC 81 (4) MOTIVATION 1 Hr. Lab. 15 Hrs. Lab. Motivation is studied from the employee's and employer's perspective. Personal leadership development and improvement is emphasized. Laboratory work will be arranged with the employer. The work must be in the field of the student's planned course of occupational training. (CSU)

ME OCC 82 (4) LABOR AND THE ECONOMY 1 Hr. Lab. 15 Hrs. Lab. Labor and management relationships are discussed. The effect of government on labor and the economy is emphasized. Laboratory work will be arranged with the employer. The work must be in the field of the student's planned course of occupational training. (CSU)

ME OCC 83 (4) LABOR AFFECTING EMPLOYEES 1 Hr. Lab. 15 Hrs. Lab. Labor laws that affect the welfare and security of employees are emphasized. Industrial welfare, unemployment insurance, workers' compensation, social security, and taxes are among laws discussed. Laboratory work will be arranged with the employer. The work must be in the field of the student's planned course of occupational training. (CSU)

ZOOL 1A (4) GENERAL ZOOLOGY 2 Hrs. Lab. 6 Hrs. Lab. Prerequisites: any one year in high school laboratory science or the equivalent. Introduction to basic principles of animal biology with reference to structure, function, classification, habitat, and the environment of animals in general with special emphasis on invertebrates. (CSU, UC)

ZOOL 1B (4) GENERAL ZOOLOGY 2 Hrs. Lab. 6 Hrs. Lab. Prerequisites: Continuation of Zool 1A with emphasis upon comparative anatomy and physiology, development, vertebrate forms and their interrelationships. (CSU, UC)
MAJORS

III. Recommended as electives (do not fulfill major
Requirements

Adm Jus 40 Advanced Officers Course .... 1/2-3
Adm Jus 42 Arrest .... 1,3
Adm Jus 43 Reserve Officer Level II .... 5
Adm Jus 44 Reserve Officer Level I .... 4
Adm Jus 45 Peace Officer Reserve Academy .... 9

AGRICULTURAL BUSINESS MANAGEMENT/TRANSPORT

The Agricultural Business Management major is the application of business concepts to the agricultural industry and emphasizes training in management for careers in Agriculture. These careers may include the management and operation of farms as well as in 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

Ag 22 Intro to Agricultural Economics .... 3
Ag 25 Agricultural Bus Mgmt .... 3
Ag 26 Agricultural Bus Organization & Management .... 3
Ag 27 Agri Sales & Svc Mgmt .... 3
Ag 29 Computer in Ag .... 3
Econ 1 Principles of Economics .... 3

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

Ag 15 Pesticide Safety .... 1
Ag 20 Animal Science .... 3
Ag 30 Food & Fiber in a Changing World .... 3
Ag 40 Soils .... 3
Bus 1A Principles of Accounting .... 4
Bus 1B Principles of Accounting .... 4
Bus 54 Business Law .... 3
Chem 2A Introduction to Chemistry .... 4

*Ag 21 Foods & Feeding, Prerequisites: Ag 20; choose this class if Animal Science emphasis
*Ag 32 Irrigation & Drainage, Prerequisites: Ag 40
*Ag 40 Soils, Prerequisites: Math 2 (Beginning Algebra) and Chem 2A (Introduction to Chemistry)
*Ag 43 Fertilizers, Prerequisites: Ag 40
*Ag 45 Vegetable Production, Prerequisites: Ag 40

ALCOHOL AND DRUG STUDIES

Twenty-seven units required for the major

I. Required courses for the major

ADS/Psych 15 Psychiatric Approach to Alcohol & Drug Abuse .... 3
ADS/Psych 55 Crisis Intervention Techniques .... 3
ADS 56 Program Management Techniques .... 3

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

Ag 25 Agricultural Bus Mgmt .... 3
Ag 32 Irrigation & Drainage .... 3
Auto Tech 60 Elec, Start, Charge, Ignit .... 3
Chem 3 Related Elec Systems .... 3
Weld 31 Basic Welding .... 3

MINIMUM OF 6 UNITS FROM ANY OF THE FOLLOWING COURSES

ADS/Psych 53 Group Leadership & Group Process .... 3
ADS 54 Family Counseling Approach to Alcohol & Drug Abuse .... 3
ADS/Psych 55 Crisis Intervention Techniques .... 3
ADS 56 Program Management Techniques .... 3

MINIMUM OF 3 UNITS FROM ANY OF THE FOLLOWING

ADS/Soc 10 Sociology of Minority Groups .... 3
ADS 57/90 Current Issues in Substance Abuse .... 1,3, 1,3, 1,3

II. Recommended courses (do not fulfill major requirements)

Psy 3 Psychology of Adjustment .... 3
Psy 4 Psychology of Human Sexuality .... 3
Psy/Psych 14 The Psychology of Interpersonal Relationships .... 3
Psy 30 Psychology of Adolescence .... 3
Psy 35 Developmental Psychology .... 3
Soc 33 Conception to Death .... 3

ANTHROPOLOGY

Twenty-seven units required for the major

I. Required courses for the major

Anthro 1 Physical Anthropology .... 3
Anthro 2 Cultural Anthropology .... 3
Anthro 3A Intro to Art Site Surveying .... 3
Anthro 3B Intro to Archaeological Excavations .... 3
Anthro 4 California Indians .... 3
Geog 1 Physical Geography .... 3

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

Anthro 29 Advanced Archaeology .... 3
Anthro 29A Advanced Archaeological Excavation .... 3
Anthro 6 Indians of North America .... 3
Anthro 8 Indians of the Southwest .... 3
Anthro 16A Prehistoric Ceramics .... 3
Anthro 16B Adv Prehistoric Ceramics .... 3

ART

Twenty-four units required for the major

I. Required courses for the major

Art 208 Drawing .... 3
Art 208A Drawing .... 3
Art 22A Design .... 3

(Option of 6 units from the following courses)

Art 3A History & Appreciation of Art .... 3
Art 3B History & Appreciation of Art .... 3
Art 4 History & Appreciation of Modern Art .... 3

Generally, 18 units of specified course work will satisfy the requirement for the major. However, some majors will require 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 in this catalog:

1. Required courses are the specific courses which must be 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 required. The total number of units from the required course list, plus the number of units selected by the student from the acceptable course list, must equal at least the total unit count required for the major.

3. Courses recommended as electives are beyond the major's requirements. These courses are suggested only, and selection from this list depends upon the student's individual desire and the total number of electives available within his/her own program.

Students may satisfy the major requirements in the following fields of study:

ADMINISTRATION OF JUSTICE

Twenty-one units required for the major

I. Required courses for the major

Adm Jus 21 Intro to the Admin of Justice .... 3
Adm Jus 23 Concepts of Criminal Law .... 3
Adm Jus 25 Legal Aspects of Evidentiary Law .... 3
Adm Jus 26 Principles & Procedures of the Justice System .... 3
Adm Jus 28 Police Community Relations .... 3

II. Acceptable courses for the major (6 units from the following courses)

Adm Jus 30 Criminology .... 3
Adm Jus 31 Concepts of Probation & Parole .... 3
Adm Jus 32 Police Field Operations .... 3
Adm Jus 33 Traffic Control & Vehicle Code .... 3
Adm Jus 34 Criminal Investigation .... 3
Adm Jus 35 Identification & Corrections .... 3
Adm Jus 36 Traffic Accident Investigation & Reporting .... 3
Adm Jus 37 Juvenile Control .... 3
Adm Jus 38 Wildlife Law Enforcement .... 3
Adm Jus 39 Report Writing for Administration of Justice .... 3
Adm Jus 41 Arrest & Firearms .... 3

AGRICULTURAL ENGINEERING TECHNOLOGY

Provides the student with technical knowledge of mechanization and the basic skills needed to succeed in production agriculture or one of the hundreds of agriculture support services in the Imperial Valley.

Twenty-one units required for the major

I. Required courses for the major

Ag 20 Power Equip Oper & Maint .... 4
Ag 34 Power Transmission Systems .... 4
Ag 35/AT 57 Diesel Engines .... 3
Ag 37/AT 59 Small Gasoline Engines .... 3
Ag 39 Fundamentals of Diesel Power .... 4
I. Required skill levels for the major (select one course)

Agrlcul

Required skill levels for the major (select one course)

Bus 2

Business Management

Bus 13

Applied Business Law

Bus 39

Office Procedures

II. Required skill level for the major

Typing Skill Level 40 wpm

(Bus 25AB, Keyboarding Speed & Accuracy, or a repeat of Bus 21ABC may be helpful in obtaining this speed level.)

BUSINESS OFFICE TECHNOLOGY

MISCELLANEOUS

III. Required skill levels for the major

Typing Skill Level 50 wpm

(Bus 25AB or a repeat of Bus 21ABC may be helpful in obtaining this speed level.)

BUSINESS OFFICE TECHNOLOGY

MISCELLANEOUS

Twenty-six units and skill level required for the major

I. Required courses for the major

Bus 21ABC

Prof-Exit Typewriting

Bus 22A

Word Processing

Bus 23

Office Machines

Bus 24

Records Management

Bus 31ABC

Shorthand Theory & Speedbuild

Bus 39

Office Procedures

Bus 43

Grammar & Usage

Bus 41 OR

Essen of Bus Corresp

Bus 42

Business Communications

II. Acceptable courses for the major (select three units)

Bus 22B

Word Processing

CIS 1

Intro to Information Systems

CIS 23

Microcomputer Operations: Hardware & Software

CIS 25

Microcomputer Operating Systems: DOS

CIS 35A

Spreadsheet: Lotus 125

CIS 43A

Database: dBase

III. Required skill levels for the major

Shorthand Skill Level 80 wpm (A repeat of Bus 31ABC may be helpful in obtaining this speed level.)

Typing Skill Level 60 wpm (Bus 25AB, Keyboarding Speed & Accuracy, or a repeat of Bus 21ABC may be helpful in obtaining this speed level.)

BUSINESS OFFICE TECHNOLOGY

MISCELLANEOUS

Twenty-one units and skill level required for the major

I. Required courses for the major

Bus 21ABC

Prof-Exit Typewriting

Bus 22A

Word Processing

Bus 23

Office Machines

Bus 24

Records Management

Bus 25

Office Procedures

Bus 39

Office Procedures

Bus 40

Grammar & Usage

Bus 41 OR

Essen of Bus Corresp

Bus 42

Business Communications

II. Required courses for the major

Bus 21ABC

Prof-Exit Typewriting

Bus 22A

Word Processing

Bus 23

Office Procedures

Bus 25

Grammar & Usage

Bus 40

Essen of Bus Corresp

CIS 1

Intro to Information Systems

CIS 23

Microcomputer Operations: Hardware & Software

CIS 25

Microcomputer Operating Systems: DOS

CIS 35A

Spreadsheet: Lotus 125

CIS 43A

Database: dBase

III. Required skill levels for the major

Typing Skill Level 55 wpm

(Bus 25AB, Keyboarding Speed & Accuracy, or a repeat of Bus 21ABC may be helpful in obtaining this speed level.)

BUSINESS OFFICE TECHNOLOGY

MISCELLANEOUS

Twenty-one units required for the major

I. Required courses for the major

Bus 2

Intro to Business

Bus 3

Business Management

Bus 5

Hgt Concepts of Supervision

Bus 10A

Practical Bookkeeping

Bus 13

Applied Business Law

CIS 1

Intro to Information Systems

CIS 23

Microcomputer Operations: Hardware & Software

CIS 30A

Word Processing: WordPerfect

CIS 30B

Spreadsheet: Lotus 125

II. Recommended electives (do not fulfill requirements for the major). These courses will assist students in gaining additional experience for the major.

CIS Gen 70/71

Personal Efficiency

CIS Gen 80

Motivation

CIS Gen 81/71

Labor & the Economy

CIS Gen 82

Human Relations

CIS Gen 83

Laws Affecting Employees

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

Bus 1A

Prin of Accounting

Bus 1B

Prin of Accounting

Bus 2

Intro to Business

Bus 28

Business Law

Bus/Math 15

Introductory Calculus with Applications

Bus 29

Office Machines

Bus 25/Math 12

Elementary Statistics

Bus 42

Business Communications

CIS 1

Intro to Information Systems

CIS 22

Microcomputer Operating Systems: DOS

CIS 35A

Spreadsheet: Lotus 125

CIS 43A

Database: dBase

II. Acceptable courses for the major (select one course)

CIS 11

Programming in Cobol

CIS 22

Microcomputer Operating Systems: DOS

CIS 23

Microcomputer Operating Systems: DOS

CIS 30A

Word Processing: WordPerfect

CIS 30B

Spreadsheet: Lotus 125

II. Acceptable courses for the major (select a minimum of 12 units)

Bus 1A

Prin of Accounting

Bus 1B

Prin of Accounting

Bus 2

Intro to Business

Bus 28

Business Law

Bus/Math 15

Introductory Calculus with Applications

Bus 39

Office Procedures

Bus 40

Grammar & Usage

Bus 41 OR

Essen of Bus Corresp

Bus 42

Business Communications

BUSINESS OFFICE TECHNOLOGY

MISCELLANEOUS

Twenty-seven units and skill levels required for the major

I. Required courses for the major

ECE/Psy 20

Develop Psych of Child

ECE/Psy 21

Early Child Social: Children, Families & Community

ECE/Psy 22

Adv Develop Psych & Observ.

ECE 23

Early Childhood Curric I

ECE 24

Early Childhood Curric II

ECE 25

Field Experience

ECE/Psy 26

Prin of Parenting

ECE 28

Admin & Supervision in ECE

ECE 34

Infant/Toddler Develop

ECE 46

Multilingual & Multicultural Curric for Young Child

II. Additional courses from the following list are recommended:

Psych 1A

Intro to Psychology

Psych 1B

Learning

Psych 1C

Psycho of Adjustment

Psych 1D

The Psych of Interpersonal Relationships

Psych/Soc 17

Social Psychology

Psych/EECE 27

PL 1

Understanding Except Stu

Psych 30

Psycho of Adolescence

Early childhood education majors are eligible for a children's Center Permit as described in the degree program. Includes 25 units in ECE, 16 units in General Education and completion of graduation require- ments for the associate degree. Application for the children's Center Permit can be made through the credentialing 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

Gen Inorganic Chemistry

Math 3A

Analytic Geometry & Calculus

Math 3B

Calculus & Differ Equations

Math 4

Calc & Differ Equations

Phys 4A

Principles of Physics

Phys 4B

Principles of Physics

Phys 4C

Principles of Physics

II. Acceptable courses for the major (select a minimum of 12 units)

Chem 18

General Inorganic Chem

Chem 1B

Quantitative Analysis

Chem 12

Organic Chemistry

Engr 5

Engr 9

Engr 10

Engr 11

Engr 19

Engr 19**

Engr 20

Engr 21

Engr 22

Engr 23

Engr 24

Engr 25

Engr 26
Students majoring in engineering and planning to attend only two years at IVC are advised to give priority to lower division requirements for the major as they are prerequisites for most upper division engineering courses. If the student also wishes to complete his/her general education requirements, it will necessitate at least one additional year at IVC.

Some of the courses in categories I and II will be offered only every two years. See a counselor for specifics on course offerings or any questions regarding the engineering program.

**ENGLISH**

Eighteen units required for the major

I. Required courses for the major (12 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 1A</td>
<td>Reading &amp; Composition</td>
<td>3</td>
</tr>
<tr>
<td>Eng 1B</td>
<td>Intro to Literature</td>
<td>3</td>
</tr>
<tr>
<td>Eng A20-A26</td>
<td>Survey of English Literature</td>
<td>3-6</td>
</tr>
<tr>
<td>Eng 101-103</td>
<td>Survey of English Literature</td>
<td>3-6</td>
</tr>
</tbody>
</table>

II. Acceptable courses for the major (6 units from the following courses)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 52</td>
<td>Intro to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>Eng 54</td>
<td>Intro to Film Hist &amp; Criticism</td>
<td>3</td>
</tr>
<tr>
<td>Eng 59</td>
<td>Advanced Composition</td>
<td>3</td>
</tr>
<tr>
<td>Eng 55A</td>
<td>Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>Eng 412</td>
<td>Survey of American Lit</td>
<td>3</td>
</tr>
<tr>
<td>Eng 461</td>
<td>The Mexican American in Lit</td>
<td>3</td>
</tr>
<tr>
<td>Eng 462</td>
<td>The Mexican American in Lit</td>
<td>3</td>
</tr>
</tbody>
</table>

**FIRE SCIENCE**

Eighteen to 21 units required for the major

I. Required courses for the major

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Sci 60</td>
<td>Intro to Fire Tech</td>
<td>3</td>
</tr>
<tr>
<td>Fire Sci 61</td>
<td>Fundamentals of Fire Prevention</td>
<td>3</td>
</tr>
<tr>
<td>Fire Sci 62</td>
<td>Fire Protection Equip &amp; Systems</td>
<td>3</td>
</tr>
<tr>
<td>Fire Sci 63</td>
<td>Fundamentals of Fire Behavior</td>
<td>3</td>
</tr>
<tr>
<td>Fire Sci 64</td>
<td>Fundamentals of Fire Behavior &amp; Control</td>
<td>3</td>
</tr>
<tr>
<td>Fire Sci 65</td>
<td>Fundamentals of Personal Fire Safety &amp; Emergency Action</td>
<td>3</td>
</tr>
<tr>
<td>Math 51</td>
<td>Basic Math, or equivalent</td>
<td>3</td>
</tr>
</tbody>
</table>

II. Acceptable courses for the major (6 units from the following courses)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Sci 101</td>
<td>Fire Protection</td>
<td>4</td>
</tr>
<tr>
<td>Fire Sci 102</td>
<td>Fire Protection</td>
<td>4</td>
</tr>
<tr>
<td>Fire Sci 103</td>
<td>Fire Protection</td>
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<td>Fire Protection</td>
<td>4</td>
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<tr>
<td>Fire Sci 105</td>
<td>Fire Protection</td>
<td>4</td>
</tr>
<tr>
<td>Fire Sci 106</td>
<td>Fire Protection</td>
<td>4</td>
</tr>
<tr>
<td>Fire Sci 107</td>
<td>Fire Protection</td>
<td>4</td>
</tr>
<tr>
<td>Fire Sci 108</td>
<td>Fire Protection</td>
<td>4</td>
</tr>
<tr>
<td>Math 52</td>
<td>Basic Math, or equivalent</td>
<td>3</td>
</tr>
</tbody>
</table>

**FOREIGN LANGUAGE**

Twenty units required for the major

I. Required courses for the major (minimum of 20 units from the following sequences with a minimum concentration of 14 units in one language). Additional units to complete the major can be selected from a second language area and/or the acceptable courses listed below:

- **French**
  - Fr 1 Elementary French* | 5
  - Fr 2 Elementary French** | 5
  - Fr 3 Intermediate French | 4
  - Fr 4 Intermediate French | 4

- **Spanish**
  - Span 11 Elementary Spanish*** | 5
  - Span 21 Elementary Spanish*** | 5
  - Span 31 Intermediate Spanish | 4
  - Span 41 Intermediate Spanish | 4

- **Italian (Bilingual)**
  - Span 20A Bilingual Spanish | 5
  - Span 20B Bilingual Spanish | 5
  - Span 23 Bilingual Oral Spanish | 3
  - Span 25 Intermediate American Italian | 3

II. Acceptable courses for the major (if full major requirements if 14 units minimum in one language have been completed in one of the areas listed below):

- **Sp 51** Inter French Read & Write | 3
- **Fr 10** Inter Conversational French | 3
- **Fr 11** Inter Conversational French | 3

III. Recommended electives (not required for the major). These courses will assist in gaining additional experience for the major.

- **En 101** Applied Business Law | 3
- **En 102** Practical Salesmanship | 3
- **En 103** Intro to Legal Accounting | 3
- **En 104** Office Machines | 3
- **En 105** Records Management | 3
- **En 106** Intro to Business | 3
- **En 107** Bus Corresp in Spanish | 3
- **En 108** Labor & the Economy | 3
- **En 109** Laws Affecting Employees | 3

**GENERAL SCIENCE**

Completion of a minimum of 18 units of lower division courses that are required or recommended subjects as specified for upper division standing in a designated major by a college to which the student plans to transfer.

**Arts and Sciences**

- **Agriculture**
  - Agriculture: Mathematics, Social Science, Physical Science
  - Art Design
  - Art, Anthropology, History, Philosophy

**Mathematics**

- **Business**
  - Business, Social Science, Mathematics, English

- **Comparative Literature**
  - English, History, Philosophy

- **Criminology**
  - English, Foreign Language, Social Science

- **Economics**
  - Social Science, Mathematics, Business English

- **Engineering**
  - Engineering, Mathematics, Physical Science

- **Foreign Language**
  - History, Foreign Language, History, Philosophy

- **History**
  - History, Mathematics, Foreign Language

- **Home Economics**
  - Biological Science, Physics, Mathematics, Social Science

- **Physical Education**
  - Physical Education, Biological Science, Mathematics, Social Science

- **Psychology**
  - Biological Science, Mathematics, Physical Science, Philosophy, Anthropology, Sociology

- **Recreation**
  - Physical Education, Biological Science, Sociology

**Sociology**

- Psychology, Philosophy, Mathematics

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

**NATURAL SCIENCE**

Successful completion of all courses offered in one subject field (Biology, Botany, Chemistry, Geology, Math, Physics, Physiology, and Zoology) may be combined with courses from at least two other subject fields within the general area of Natural-Physical Science (to accumulate 18 hours for the General Science Major).

The most reliable guide for appropriate course combinations in this major will be the catalog from the specific college to which the student will transfer.
<table>
<thead>
<tr>
<th>Area</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Area of Study</strong></td>
<td><em>Counseling</em></td>
</tr>
<tr>
<td><strong>Humanities</strong></td>
<td><em>Sociology</em></td>
</tr>
<tr>
<td><strong>Arts</strong></td>
<td><em>Social 10 Sociology of Minority Groups</em></td>
</tr>
<tr>
<td><strong>Instrumental Major</strong></td>
<td><em>Social 33 Marriage &amp; the Family</em></td>
</tr>
</tbody>
</table>

*Strongly recommended that students who do not speak Spanish take a series of courses in Conversational Spanish.*
**Twentynine units required for the major**

1. **Required courses for the major (minimum of 25 units from the following courses)**
   
a. **Academic courses (minimum of 20 units from the following courses)**
   
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 3A</td>
<td>Analytic Geometry &amp; Calculus</td>
<td>5</td>
</tr>
<tr>
<td>Math 3B</td>
<td>Analytic Geometry &amp; Calculus</td>
<td>5</td>
</tr>
<tr>
<td>Math 65ABCD</td>
<td>Calculus &amp; Differential Equations</td>
<td>5</td>
</tr>
<tr>
<td>Math 12/23BC</td>
<td>Elementary Calculus</td>
<td>3</td>
</tr>
<tr>
<td>Psych 12</td>
<td>Programming in Fortran</td>
<td>3</td>
</tr>
<tr>
<td>Psych 12</td>
<td>Programming in Basic</td>
<td>3</td>
</tr>
<tr>
<td>Psych 25</td>
<td>Computer Programming in Pascal</td>
<td>3</td>
</tr>
<tr>
<td>Mus 15A</td>
<td>Beg Class Voice</td>
<td>1</td>
</tr>
<tr>
<td>Mus 15B</td>
<td>Beg Class Voice</td>
<td>1</td>
</tr>
<tr>
<td>Mus 16</td>
<td>Inter Class Voice</td>
<td>1</td>
</tr>
<tr>
<td>Mus 16E</td>
<td>Intermediate Ensemble</td>
<td>1-1-1</td>
</tr>
<tr>
<td>Mus 20A</td>
<td>Music &amp; Lit of Music</td>
<td>3</td>
</tr>
<tr>
<td>Mus 20B</td>
<td>Music &amp; Lit of Music</td>
<td>3</td>
</tr>
<tr>
<td>Mus 21A</td>
<td>Brass, Wind/wood Percussion Methods</td>
<td>1-1-1</td>
</tr>
<tr>
<td>Mus 25A</td>
<td>Stage Band</td>
<td>1-1-1</td>
</tr>
<tr>
<td>Mus 25BC</td>
<td>Rehearsal &amp; Performance</td>
<td>1-1-1</td>
</tr>
<tr>
<td>Mus 25C</td>
<td>Major Ensembles</td>
<td>1-1-1</td>
</tr>
<tr>
<td>Mus 31</td>
<td>Intro to 20th Cent Music</td>
<td>3</td>
</tr>
<tr>
<td>Mus 34</td>
<td>Community College Band</td>
<td>1-1-1</td>
</tr>
</tbody>
</table>

2. **Pre-Application Requirements**
   
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 1A</td>
<td>Reading &amp; Composition</td>
<td>3</td>
</tr>
<tr>
<td>Eng 11</td>
<td>Reading IV: Analytical</td>
<td>3</td>
</tr>
<tr>
<td>Math X</td>
<td>Beginning Algebra</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

**Nursing**

20. **Units required for the major**

1. **Required courses for the major (minimum of 25 units from the following courses)**
   
a. **Academic courses (minimum of 20 units from the following courses)**
   
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 6A</td>
<td>Beg Musicanship</td>
<td>2</td>
</tr>
<tr>
<td>Mus 8B</td>
<td>Beg Musicanship</td>
<td>2</td>
</tr>
<tr>
<td>Mus 8C</td>
<td>Inter Musicanship</td>
<td>2</td>
</tr>
<tr>
<td>Mus 8D</td>
<td>Inter Musicanship</td>
<td>2</td>
</tr>
<tr>
<td>Mus 9A</td>
<td>Beg Harmony</td>
<td>3</td>
</tr>
<tr>
<td>Mus 9B</td>
<td>Beg Harmony</td>
<td>3</td>
</tr>
<tr>
<td>Mus 9C</td>
<td>Inter Harmony</td>
<td>3</td>
</tr>
<tr>
<td>Mus 9D</td>
<td>Inter Harmony</td>
<td>3</td>
</tr>
</tbody>
</table>
   
   **Note:** Music 6A and 9A must be taken concurrently and the sequence followed through 80 and 90.

b. **Applied Music (minimum of 5 units from the following courses)**
   
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 10A</td>
<td>Beginning Group Piano</td>
<td>1</td>
</tr>
<tr>
<td>Mus 32ABCD</td>
<td>Applied Music</td>
<td>1-1-1</td>
</tr>
</tbody>
</table>

   **Note:** All music majors are required to perform in at least one of the above college music organizations every semester enrolled.

2. **Recommended as electives (do not fulfill major requirements)**
   
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 10B</td>
<td>Beg Group Piano II</td>
<td>1</td>
</tr>
<tr>
<td>Eng 1A</td>
<td>Reading &amp; Composition</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>

3. **Core Mathematics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 57</td>
<td>Math Pre-Calculus</td>
<td>5</td>
</tr>
<tr>
<td>Eng 11</td>
<td>Reading IV: Analytical</td>
<td>3</td>
</tr>
<tr>
<td>Math X</td>
<td>Beginning Algebra</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

4. **Associate Degree Nursing**

Forty-six and one-half units of nursing required for the major. Thirty-three support courses units required to complete the nursing program.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 1A</td>
<td>Reading &amp; Composition</td>
<td>3</td>
</tr>
<tr>
<td>Eng 11</td>
<td>Reading IV: Analytical</td>
<td>3</td>
</tr>
<tr>
<td>Math X</td>
<td>Beginning Algebra</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

5. **Pre-Clinical Nursing**

The course must have been completed by the end of the first semester.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HT 1</td>
<td>Intro to Health Science</td>
<td>2</td>
</tr>
<tr>
<td>Psych 1A</td>
<td>Intro to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Anat 10</td>
<td>Human Anat &amp; Phys</td>
<td>5</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

6. **First Semester**

**Pre-Admission Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psych 35</td>
<td>Develop Psych: Conception to Death</td>
<td>3</td>
</tr>
<tr>
<td>Bio 21</td>
<td>General Histology</td>
<td>3</td>
</tr>
<tr>
<td>NS 1A (V)</td>
<td>Intro to Patient Care I</td>
<td>4</td>
</tr>
<tr>
<td>NS 1B (V)</td>
<td>Intro to Patient Care II</td>
<td>4</td>
</tr>
<tr>
<td>NS 1C (V)</td>
<td>Pharmacology I</td>
<td>1.5</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>12.5</td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psych/HR 16</td>
<td>The Psych of Interpersonal Relationships</td>
<td>3</td>
</tr>
<tr>
<td>NS 2A (V)</td>
<td>Maternity Cycle</td>
<td>5.5</td>
</tr>
<tr>
<td>NS 2B (V)</td>
<td>Common Health Prob I</td>
<td>6.5</td>
</tr>
<tr>
<td>NS 2C (V)</td>
<td>Pharmacology I</td>
<td>5.5</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>15.5</td>
</tr>
</tbody>
</table>

**Third Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS 3A (V)</td>
<td>Common Health Prob I</td>
<td>6.5</td>
</tr>
<tr>
<td>NS 3B (V)</td>
<td>Common Health Prob III</td>
<td>6.5</td>
</tr>
<tr>
<td>NS 3C (V)</td>
<td>Patient Care Mgmt</td>
<td>1.5</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>13.5</td>
</tr>
</tbody>
</table>

**Part-Time Program Sequence**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 1A*</td>
<td>Reading &amp; Composition</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

**Pre-Nursing Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anat 10</td>
<td>Human Anat &amp; Phys</td>
<td>5</td>
</tr>
<tr>
<td>HT 1</td>
<td>Intro to Health Science</td>
<td>2</td>
</tr>
<tr>
<td>Psych 1A</td>
<td>Develop Psych: Conception to Death</td>
<td>3</td>
</tr>
<tr>
<td>NS 1A (R)</td>
<td>Intro to Patient Care I</td>
<td>4</td>
</tr>
<tr>
<td>NS 1B (R)</td>
<td>Intro to Patient Care II</td>
<td>4</td>
</tr>
<tr>
<td>NS 1C (R)</td>
<td>Pharmacology I</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

**Nursing Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS 1A (R)</td>
<td>Intro to Patient Care I</td>
<td>4</td>
</tr>
<tr>
<td>NS 1B (R)</td>
<td>Intro to Patient Care II</td>
<td>4</td>
</tr>
<tr>
<td>NS 1C (R)</td>
<td>Pharmacology II</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

**Nursing Program**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 1A*</td>
<td>Reading &amp; Composition</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>
Renaissance: Technician for the Physically Limited

Eighteen units required for the major:

I. Required courses for the major

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 24A8CD</td>
<td>Basketball for Men</td>
<td>1-1-1</td>
</tr>
<tr>
<td>PE 24A8CD</td>
<td>Jazz Dance, Coed</td>
<td>1-1-1</td>
</tr>
</tbody>
</table>

II. Additional units to complete the major may be utilized from the courses under Section III.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 628AB</td>
<td>PE for Special Olympics</td>
<td>3-3</td>
</tr>
<tr>
<td>PL 28</td>
<td>Practicum Exp with the PL Person</td>
<td>2</td>
</tr>
</tbody>
</table>

III. Social Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 1</td>
<td>Physical Anthropology</td>
<td>3-3</td>
</tr>
<tr>
<td>ANTH 2</td>
<td>Cultural Anthropology</td>
<td>3-3</td>
</tr>
<tr>
<td>ANTH 3</td>
<td>Intro to Archaeology</td>
<td>3</td>
</tr>
</tbody>
</table>

II. General Education

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 201</td>
<td>American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 202</td>
<td>United States History</td>
<td>3</td>
</tr>
</tbody>
</table>

III. Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1</td>
<td>Introduction to Physics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>BIO 101</td>
<td>General Biology</td>
<td>3</td>
</tr>
</tbody>
</table>

IV. Specialization

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 101</td>
<td>Introduction to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>EE 101</td>
<td>Engineering Electronics</td>
<td>3</td>
</tr>
</tbody>
</table>

V. Additional Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 201</td>
<td>Calculus</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>BIO 101</td>
<td>General Zoology</td>
<td>3</td>
</tr>
</tbody>
</table>

VI. Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 201</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 202</td>
<td>Calculus</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 201</td>
<td>Mechanics</td>
<td>3</td>
</tr>
</tbody>
</table>

VII. Specialization

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 101</td>
<td>Engineering Electronics</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 101</td>
<td>Introduction to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

VIII. Additional Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 201</td>
<td>Calculus</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>BIO 101</td>
<td>General Zoology</td>
<td>3</td>
</tr>
</tbody>
</table>

IX. Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 201</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 202</td>
<td>Calculus</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 201</td>
<td>Mechanics</td>
<td>3</td>
</tr>
</tbody>
</table>
Economics

Econ 1 Prin of Economics .......... 3
Econ 2 Prin of Economics .......... 3

Geography

Geog 1 Physical Geography .......... 3
Geog 2 Cultural Geography .......... 3

History

Hist 4A Hist of West Civilization ..... 3
Hist 17A United States History ..... 3
Hist 17B United States History ..... 3
Hist 30 Mexico & the Amer Southwest .. 3

Political Science

Poly Sci 1 Intro to Political Science .. 3
Poly Sci 2 American Govt & Politics ... 3
Poly Sci 3 Comparative Politics ..... 3
Poly Sci 14 Intro to International Relations .. 3

Social Science

Soc Sci 52 Intro to American Govt .. 3

Sociology

Soc 1 Introductory Sociology ..... 3
Soc 2 Cultural Sociology ..... 3
Soc 10 Sociology of Minority Groups .. 3
Soc 33 Marriage & the Family .. 3

TEACHER PREPARATION

The Teacher Preparation and Licensing Law of 1970 (Kern 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 classroom as commonly practiced in California elementary schools. The other is the SINGLE SUBJECT CREDENTIAL for teachers responsible for only one subject as practiced in junior and senior high schools.

To satisfy the requirements for the SINGLE SUBJECT CREDENTIAL, the individual must pass an examination or have a degree major in one of the areas listed below:

Agriculture

History

Music

Art

Home Economics

Physical Education

Business

Industrial Arts

Physical Science

English

Languages

Social Science

Government

Life Sciences

Health Science

Mathematics

Other degree majors may be subsumed under these categories e.g., Speech, Social Problems, etc. If so, check the university catalog for special 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 teach a "minor" subject. Professional education courses and student teaching are required and a full credential is earned by completion of a year past the B.A. degree.

To satisfy the requirements for the MULTIPLE SUBJECT CREDENTIAL, the student must either pass an examination (National Teachers Examination - Core Batteries) or complete an approved major. Majors have developed LIBERAL STUDIES majors which have been approved for this credential. In addition to the major, professional education courses including student teaching are required. The National Teachers Examination may be taken at any time the student feels capable of passing it. It is recommended that the candidate first complete a bachelor's degree. Once the K-8 exam has been successfully completed, the scores are submitted to the College of Education of the University that the candidate will be attending in order to satisfy the additional requirements for the Multiple Subject Credential.

LIBERAL STUDIES

The major in Liberal Studies, with an emphasis in education, is a diversified interdisciplinary liberal arts major, which includes a 12 unit upper division area of specialization. Students who select this major are seeking a multiple subject credential. This major meets the lower division requirements for the multiple subject/diversified major, as specified in the Kern Act, and an approved major for the multiple subject credential leading to a career in teaching at the elementary level.

Individuals seeking this credential, who complete this major, are exempt from the National Teacher Examination. Additional requirements for admission to the College of Education, relating to the credential program, are listed in the catalog of the transfer university you will be attending.

Sixty units required for the major

I. Major Core

Eng 1A Reading & Composition .. 3
Eng 50 Advanced Composition .. 3
Sp 1 Oral Communication .. 3
Eng 18 OR Intro to Literature .. 3
Eng 42A OR Survey of World Lit .. 3
Math 10A Math for Elem School Teach .. 3
Math 10B Math for Elem School Teach .. 3
Bio 3 Prin of Biological Sci .. 4
Astron 21 OR Prin of Astronomy .. 3
Geog 1 Physical Geography .. 3

PsyCh 1A Introduction to Psychology .. 3
Phil 1A OR Introduction to Philosophy .. 3
Phil 1B OR Introduction to Philosophy .. 3
Phil 11 OR Ethics .. 3
Phil 25 Religions of the Modern World .. 3
Hist 4A OR Hist of Western Civ .. 3
Hist 4B OR Hist of Western Civ .. 3

II. Recommended courses for the major

Bus 3 Business Management .. 3
Bus/Mkt Management .. 3
Bus/HR 7 Mkt Concepts of Supervision .. 3
Chew 2A Intro to Chemistry .. 4

WELDING TECHNOLOGY

The practice of joining metals by welding is becoming more of a science every day. Imperial Valley College recognizes this and consequently has instituted a two-year Associate Degree program in Industrial 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 subjects such as mechanics and metal-fabricating techniques.

The welding facility consists of an indoor, air-conditioned laboratory equipped with oxyacetylene welders, Tig welders, Mig welders, 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

Weld 31 OR Basic Welding .. 5
Weld 31A & Welding .. 2 & 3
Weld 31B Arc Welding .. 5
Weld 35A Advanced Welding .. 5
Weld 35B Advanced Welding .. 5
Ad J 25 Welding - Welder Certification & Blueprint Reading .. 5

CERTIFICATE PROGRAMS

ADMISSION TO JUSTICE

Twenty-one to 24 units required for the certificate

Adv J 25 Intro to Admin of Justice .. 3
Adv J 26 Concepts of Criminal Law .. 3
Adv J 27 Prin & Proc of the Justice System .. 3
Adv J 28 Police Community Relations .. 3
Adv J 37 Juvenile Control .. 3
Adv J 128 Reading Ill: Inter Dev .. 3
Adv J 130 (If required) .. 3

AGRICULTURAL ENGINEERING TECHNOLOGY

Provides the student with technical knowledge of mechanization and the basic skills needed in the production agriculture or one of the hundreds of agriculture support services in the Imperial Valley.

Twenty-six units required for the certificate

I. Required courses for the certificate

Agri 28 Power Equip Oper & Maint .. 4
Agri 34 Power Transmission & Heating .. 4
Agri 35/Ag 57 Fluid Power .. 3
Agri 39 Fundamentals of Diesel Power .. 4
Agri 31 Basic Welding .. 5
### Agriculture Business Management

#### Twenty-five units required for the certificate

1. **Required courses for the certificate**
   - Ag 15: Pesticide Safety
   - Ag 22: Intro to Industrial Safety
   - Ag 25: Agricultural Bus Mgmt
   - Ag 27: Agricultural Sales & SVC Mgmt
   - Ag 29: Computer Applications in Ag
   - Ag 30: Food & Fiber in a Changing World
   - Ag 40: Soil Science

Select one course from the following:

- Ag 14: Entomology
- Bus 1: Print Reading
- Bus 5A: Business Law
- Bus 5B: Business Law
- Bus 10A: Practical Bookkeeping

#### Alcohol and Drug Studies

**Twenty-seven units required for the certificate**

1. **Required courses for the certificate**
   - ADS/Psy/Psych 10: Intro to Counseling
   - ADS/Psy/Psych 10: Practicum
   - ADS/Soc/Social 10: Social & Psychological Dynamics of Drug Use
   - ADS/Soc/Social 50: Human Services in a Changing Society
   - ADS 51: Alcoholism Intervention, Treatment & Recovery
   - ADS 52: Physiological Effects of Alcohol & Drugs

Minimum of 6 units from any two of the following courses:

- ADS/Psy/Psych 55: Group Leadership & Group Process
- ADS 54: Alcohol & Drug Abuse
- ADS/Psy/Psych 55: Crisis Intervention & Relief Tech
- ADS 56: Program Mgmt Techniques

Minimum of 3 units from any of the following:

- ADS/Soc/Social 10: Sociology of Minority Groups
- ADS 57ABCD: Current Issues in Drug Abuse

#### Automotive Technology

**Thirty-two units required for the certificate**

1. **Required courses for the certificate**
   - Auto Tech 57: Engine Technology
   - Auto Tech 58: Manual Transmissions
   - Auto Tech 59: Brakes & Suspension

Each course must be completed with a minimum grade of "C-" for each course in the certificate program.

**II. Required courses for the certificate**

**III. Recommended courses (do not fulfill certificate requirements)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Tech 54</td>
<td>Carburetors, Fuel Injection &amp; Exhaust Systems</td>
<td>3</td>
</tr>
<tr>
<td>Auto Tech 56</td>
<td>Diagnostics</td>
<td>3</td>
</tr>
<tr>
<td>Auto Tech 58</td>
<td>Automotive Air-Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>Auto Tech 60</td>
<td>Auto Tech 60</td>
<td>3</td>
</tr>
<tr>
<td>Auto Tech 62</td>
<td>Auto Tech 62</td>
<td>3</td>
</tr>
<tr>
<td>Auto Tech 64</td>
<td>Auto Tech 64</td>
<td>3</td>
</tr>
</tbody>
</table>

**IV. Recommended courses for the certificate**

**V. Required skills level for the certificate**

- **Minimum skill level 40 net words per minute required to qualify for certificate. If skill level attained in Bus 21A, student is excused from Bus 21B and Bus 21C.
- **Bus 1A will be substituted if student has completed one year of high school bookkeeping.
- **Minimum skill level of 40 words per minute required to qualify for certificate. If skill level attained in Bus 21A, student is excused from Bus 21B and Bus 21C.

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**CIS 1 Intro to Information Systems**

**Sp 1 Oral Communication**

**Course Notes:**

- BUS 10A Practical Bookkeeping
- BUS 10B Practical Bookkeeping
- BUS 21ABC Prof-Exit Typewriting*
- BUS 23S Business Machines
- BUS 39 Office Procedures
- BUS 41 EE Office Procedures
- BUS 41D Business Machines
- BUS 41F Business Machines
- BUS 41G Business Machines
- BUS 41H Business Machines
- BUS 41I Business Machines
- BUS 41J Business Machines
- BUS 41K Business Machines
- BUS 41L Business Machines
- BUS 41M Business Machines
- BUS 41N Business Machines
- BUS 41O Business Machines
- BUS 41P Business Machines
- BUS 41Q Business Machines
- BUS 41R Business Machines
- BUS 41S Business Machines
- BUS 41T Business Machines
- BUS 41U Business Machines
- BUS 41V Business Machines
- BUS 41W Business Machines
- BUS 41X Business Machines
- BUS 41Y Business Machines
- BUS 41Z Business Machines

*Minimum skill level 40 net words per minute required to qualify for certificate. If skill level attained in Bus 21A, student is excused from Bus 21B and Bus 21C.

**Bus 1A will be substituted if student has completed one year of high school bookkeeping.

**Minimum skill level of 40 words per minute required to qualify for certificate. If skill level attained in Bus 21A, student is excused from Bus 32A.

**BUSINESS OFFICE TECHNOLOGIES**

It is highly recommended that all students complete the course work in Business Office Technology to provide expanded experience for the certificate programs.

**Accounting Technician**

**Twelve units and skill level required for the certificate**

1. **Required courses for the certificate**
   - BUS 1A: Prin of Accounting
   - BUS 1B: Prin of Accounting
   - BUS 5A: Human Relations in Mgmt
   - BUS 5B: Human Relations in Mgmt
   - BUS 5C: Prein of Economics
   - BUS 5D: Oral Communication

**Credit Administration Certificate in Banking**

**Twenty-three units required for the certificate**

1. **Required courses for the certificate**
   - BUS 5A: Prin of Accounting
   - BUS 5B: Prin of Accounting
   - BUS 7: Human Relations in Mgmt
   - BUS 22: Business Communication
   - BUS 23: Prein of Economics
   - BUS 24: Oral Communication

**General Certificate in Business Services***

**Twenty-seven units required for the certificate**

1. **Required courses for the certificate**
   - BUS 5A: Business Law
   - BUS 5B: Business Law
   - BUS 5C: Prein of Economics
   - BUS 5D: Oral Communication

**II. Required skills level for the certificate**

- Typing Skill Level 40 wpm (bus 25AB, Keyboarding Speed & Accuracy, or a repeat of BUS 25AB may be helpful in obtaining this speed level.)
Twenty-six units and skill levels required for the certificate

I. Required courses for the certificate

Bus 21ABC
Bus 22A
Bus 23A
Bus 24A
Bus 31ABC
Bus 39
Bus 40
Bus 41 OR
Bus 42
CIS 23
CIS 35A

Typing Skill Level 50 wpm (Bus 25AB, Keyboarding Speed & Accuracy, or a repeat of Bus 21ABC may be helpful in obtaining this speed level.)

II. Required skill levels for the certificate

Shorthand Skill Level 70 wpm (a repeat of Bus 31ABC may be helpful in obtaining this speed level.)

Required course for the certificate

CIS 12/Math 57
CIS 21ABC
CIS 22
CIS 25
CIS 27ABC
CIS 35A
CIS 45A

Typing Skill Level 40 wpm (Bus 25AB, Keyboarding Speed & Accuracy, or a repeat of Bus 21ABC may be helpful in obtaining this speed level.)

Word Processing Technician

Twenty-four units and skill level required for the certificate

I. Required courses for the certificate

Bus 21ABC
Bus 22A
Bus 23A
Bus 24A
Bus 39
Bus 40
Bus 41 OR
Bus 42

Typing Speed Certificate

Bus 24
Bus 42

Business Communications

CIS 23
CIS 35A

TYPING SKILL LEVEL

Bus 2
Bus 3
Bus 5A
Bus 6
Bus 27ABC

BUSINESS OPERATIONS

CIS 10
CIS 11
CIS 23
CIS 30A
CIS 30B
CIS 35B

MACRO SCIENCE

Ag 14
Ag 15
Ag 20
Ag 41
Ag 42
Ag 43

Ag 45
Ag 49

Vegetable Production

Select one course from the following:

Agr 28
Agr 30
Agr 31

Power Equip Oper & Maint
Family & Consumer World
Irrigation & Drainage

Ag 45
Ag 49

Vegetable Production

Three-week courses for the certificate

CIS 10

Programming in Cobol

CIS 11

Programming in Cobol II

CIS 23

Microcomputer Operations:

Hardware & Software

CIS 30A

Word Processing: WordPerfect I

CIS 30B

Word Processing: WordPerfect II

CIS 35B

Spreadsheet Lotus 123

COMPUTER INFORMATION SYSTEMS

II. Required courses for the certificate

Bus 10A
Bus 21ABC
Bus 22A
Bus 23
Bus 24
Bus 39
Bus 40
Bus 41 OR
Bus 42

Practical Bookkeeping

CIS 1

Introduction to Information Systems

CIS 21ABC

Computer Applications I

CIS 25

Microcomputer Operations:

Bookkeeping & Accounting

CIS 27ABC

Business Microcomputer Software

CIS 35A

Spreadsheet Lotus 123

II. Required courses for the certificate

Typing Skill Level 40 wpm (Bus 25AB, Keyboarding Speed & Accuracy, or a repeat of Bus 21ABC may be helpful in obtaining this speed level.)

Word Processing Technician

Twenty-four units and skill level required for the certificate

I. Required courses for the certificate

Bus 21ABC
Bus 22A
Bus 23A
Bus 24A
Bus 39
Bus 40
Bus 41 OR
Bus 42

Intro to Fire Technology

Fire Sci 60
Fire Sci 61
Fire Sci 62
Fire Sci 63
Fire Sci 64
Fire Sci 65

Intro to Fire Technology
Fundamentals of Fire Prevention
Fire Protection Equipment & Systems
Fire Fighting Behavior & Control
Fundamentals of Fire Protection
Fundamentals of Personal Fire Safety & Emer Action

Math 51

Basic Math, or equivalent

Ag 14

Entomology

Ag 41

Fertilizers

Ag 42

Intro to Crop Science

Ag 43

Field & Cereal Crops

GRAPHIC ARTS - MULTIMEDIA

Eleven units required for the certificate

GA 10
GA 11
GA 12
GA 20 OR
GA 22

GRAPHIC ARTS - PRINTING

Eleven units required for the certificate

GA 20
GA 21
GA 23

HEALTH ASSISTANT

Six units required for the certificate

HA 15

HOME HEALTH AIDE

Six units required for the certificate

HA 16

HUMAN RELATIONS

Areas of emphasis: Community Mental Health Worker, Counseling, School, Social Services, Personnel, Employment Counseling and Supervision

Twenty-four units required for the certificate

I. Required courses for the certificate

Psych 1A
Psych 3
Psych/HR/ADS 9
Psych/HR/

Intro to Psych
Psych/Psych/ADS 9
Intro to Counseling

AG 1A & 1B

Psych/ADS 1A & 1B

Psych/HR/ADS 9

Social 1

Introductory Sociology

II. With the approval of the counselor and the Division 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 of emphasis to take more than 9 units from the list below.

Anthro 2

Cultural Anthropology

Bus 6

Bus/HR 7

Human Relations in Business

CIS 11

Intro to Information Systems

HR/Psych 6

Psych/HR/ADS 9

Personal & Career Development

Small Group Leadership

Psych 5

Psych 8

Biological Psychology

Psych 10

Psych/HR/ADS 9

Psych of Effect Behavior

Psych 13/Bus 26

Psych/HR/ADS 9

Math 12

Elementary Statistics

Psych/HR/ADS 9

Social & Psychological Dynamics of Drug Use

203
Twenty-one units required for the certificate

I.
Sociol 2 Contemp Social Problems  4
Bus 4  2
Psych/ECE 20  4
Bus 26  3
Psych 30  3
Psych 35  3

Legal Assistant

Fifteen units required for the certificate

Bus 5A  3
LA 21  3
LA 22  3
LA 23  3
LA 24  3
LA 25  3
LA 26  3

Basic Library Technician

Eighteen units required for the certificate

Bus 2  3
Bus 4  3
Bus 13  3
Bus 14  3

Six units to be selected from the following courses

Bus 1A  3
Bus 10A  3
Bus 21ABC  3
Bus 23  3
Bus 66  3
Econ 1  3

Pharmacy Technician

Twenty-one units required for the certificate

Math X  3
HT 3/Bus 80  3
Anat 6  3
HT 12  3
HT 15  3

Nutrition Management - Dietary Manager

Courses required for a Certificate of Achievement by the State of California, Department of Health Services, Licensing and Certification Division. Students must achieve a minimum grade of "C" in each of the required courses.

I. Required core courses for the certificate

NU 1  3
NU 2  3
NU 3  3
NU 4  3
NU 5  3
NU 6A  3

Nutrition Management - School Food Service Manager

Courses required for a Certificate of Achievement by the State of California, Department of Health Services, Licensing and Certification Division. Students must achieve a minimum grade of "C" in each of the required courses.

I. Required core courses for the certificate

NU 1  3
NU 2  3
NU 3  3
NU 4  3
NU 5  3
NU 6A  3
NU 7  3
NU 8  3

Pharmacology 3

RECREATION

Eighteen units required for the certificate

1. Required courses for the certificate

PL 2B  3
PL 12  3

ILLUSTRATION

Fifty-nine and one-half units required for the certificate

Vocational Nursing

Pre-Amission Requirements

Pre-Nursing Requirements

Nursing Requirements
Auto Tech 65 Basic Machine Shop Tech. ... 3
Eight units selected from agriculture and/or automotive technology courses ... 8

Pattern Four
(Recommended for the experienced welder who wishes to advance his/hers general capabilities in welding and fabrication processes)

Fifteen units required for the Pattern Four certificate
Weld 36A Advanced Welding ... 5
Weld 36B Air Weld - Welder Certification & Blueprint Reading ... 5
Weld 38A Sheet Metal Fundamentals ... 2
Engr 2A Technical Drawing ... 3

OCCUPATIONAL VISE EXPERIENCE

One of the following four patterns of study will fulfill requirements for a certificate in Welding Technology.

Pattern One
(Recommended for Agriculture and Agricultural Services)

Twenty units required for the Pattern One certificate
Weld 31 OR Basic Welding ... 5
Weld 31A & Oxy-Acetylene Welding ... 5
Weld 31B Arc Welding ... 2 & 3
Weld 36A Advanced Welding ... 5
Weld 38 Sheet Metal Fundamentals ... 2
Eight units selected from agriculture courses ... 8

Pattern Two
(Recommended for air-conditioning mechanics and construction personnel)

Eighteen units required for the Pattern Two certificate
Weld 36A Advanced Welding ... 5
Weld 36B Air Weld - Welder Certification & Blueprint Reading ... 5
Weld 38A Sheet Metal Fundamentals ... 2
Ag 36 Agricultural Construction ... 3
Ag 38 Power Electricity ... 3

Pattern Three
(Recommended for welders with a future in general service industries)

Twenty-one units required for the Pattern Three certificate
Weld 31 OR Basic Welding ... 5
Weld 31A & Oxy-Acetylene Welding ... 5
Weld 31B Arc Welding ... 2 & 3
Weld 36A Advanced Welding ... 5

Credit by Examination ... 22
Credit for Upper Division Course Work ... 23
Credit Classes ... 21
Curricula, Occupational ... 29

E

Early Childhood Education ... 47
Economics ... 48
Education (K-12 Major) ... 48
Education, Teacher Preparation ... 98
Electricity ... 48
Electronics ... 48
Eligibility & Certification of Veteran Enrollment ... 24
Emergency Medical Technician ... 49
Emeritus Faculty ... 12
Engineering ... 56
English ... 30
Enrollment, Concurrent High School & College ... 16
Entrance Examinations ... 19
Environmental Science ... 35
Evening College ... 15
Expenses ... 38
Extension Courses, Credit for ... 27
External Campus ... 15

F

Facilities ... 13
Faculty ... 8
Faculty, Emeritus ... 12
Family Educational Rights & Privacy Act of 1974 ... 19
Fees ... 17
Financial Aid ... 17
Fire Science ... 55
Foreign Students ... 19
French ... 56

G

General Education ... 15, 26
Requirements at IVCC ... 25
Requirements for California State Colleges ... 28
Requirements for University of California ... 7
Geography ... 57
Chemistry ... 58
Grade Points ... 22
Grade Reports, Semester ... 23
Grades ... 23
Grading System ... 21
Graduate Honors ... 17
Graduation Petition ... 25
Graduation Requirements ... 25
Grants ... 17
Graphic Arts ... 38
Grievance Procedure ... 24
Guidelice Services ... 18