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IMPERIAL VALLEY COLLEGE

2009-2010 CALENDAR

2009

August	21 24	Friday Monday	Orientation (Non-Instructional Faculty Service Day) Fall Semester Begins
September	7	Monday	Holiday (Labor Day), Campus Closed
November	9 26–28	Monday Thursday - Saturday	Holiday (Veterans Day), Campus Closed Holiday (Thanksgiving), Campus Closed
December	7–12 14–18 21–31	Monday - Saturday Monday - Friday Monday - Thursday	Final Exams, Fall 2009 Semester No Classes, Campus Open Winter Recess, Campus Closed

2010

January	1 4–6 7 18	Friday Monday - Wednesday Thursday Monday	Holiday (New Year's Day)/Winter Recess, Campus Closed No Classes, Campus Open Winter Intersession 2010 Begins Holiday (Martin Luther King's Birthday), Campus Closed
February	9 12 15 16	Tuesday Friday Monday Tuesday	Winter Intersession 2010 Ends/Final Exams Holiday (Abraham Lincoln's Birthday), Campus Closed Holiday (President's Day), Campus Closed Spring Semester 2010 Begins
April	5–10	Monday - Saturday	Spring Recess, Campus Closed
May	31	Monday	Holiday (Memorial Day), Campus Closed
June	5–11 12 21	Saturday - Friday Saturday Monday	Final Exams, Spring 2010 Semester Graduation (Non-Instructional Faculty Service Day) Summer Session 2010 Begins
July	5 29	Monday Thursday	Holiday (Independence Day), Campus Closed Summer Session 2010 Ends/Final Exams

THE COLLEGE

HISTORY OF IMPERIAL VALLEY COLLEGE

More than 50 years ago, a small group of students gathered for the first day of classes on a 160-acre plot of land at the Intersection of Highway 111 and Aten Road. It was the culmination of years of hard work by the citizens of this county to finance and build a freestanding Imperial Valley College.

Construction of the campus had been approved two years before when community college district residents set an all-time state record, voting thirteen to one in favor of bonds to finance the new IVC campus.

But even though the grand opening of the main campus in 1962 signaled a new era for higher education in the Imperial Valley, IVC's roots run even deeper into the county's heritage.

Exactly 40 years before the opening of the new campus, Central Junior College classes began on the grounds of Central Union High School in El Centro—in September 1922. Two years later, in the fall of 1924, instruction began at the Brawley Junior College, located at Brawley Union High School.

Central Junior College first conferred the Associate in Arts degree in 1934. Enrollments increased in both schools until World War II, when attendance dropped sharply. Brawley Junior College was forced, by lack of attendance, to discontinue classes at the close of the 1947 school year.

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. It was now serving students from all of the Imperial Valley. By action of the Board, the name was officially changed to Imperial Valley College.

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

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

A recommendation that 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 Imperial County Superintendent of Schools then set a date for an election at which all qualified voters residing within the boundaries of the seven high school and unified school districts were eligible to vote. The election was held on October 6, 1959; and by an overwhelming vote, 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 came from each of the seven high schools or unified school districts represented in the area served by the Imperial Junior College District.

This District includes all of Imperial County except a small area in the northwest corner of the County, which is a part of the Desert Community College District.

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

The Board of Trustees selected a nationally known architectural firm

- Swimming Pool Complex, 1975;
- Remodeling of the Student Union and the cafeteria into the College Center complex, 1977;
- Preschool, 1981, which was constructed off Highway 111 on a section of the campus named Rider Park, honoring the late Amos R. Rider, who was the first custodian and maintenance supervisor at the new IVC campus;
- Modernization of facilities to remove architectural barriers to the handicapped, 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 seven thousand students each year.

In June 1985, the California State Legislature approved an augmentation to the state budget in SB 150 to include full funding of the construction of a Health Sciences Building. In November 1986, Imperial Valley College began construction of a 17,500 square foot building that now houses the Health Sciences Program and the Disabled Students Program and Services. The Health Sciences Program had been scattered in several buildings on campus, while the Disabled Students Program was located in temporary metal buildings that have been on campus since 1961. The \$2.2 million project was completed at the end of 1987, which was also the 25th anniversary of the opening of Imperial Valley College.

In November 1987, a \$2.5 million General Obligation Bond for IVC was approved by 73 percent of the voters. The monies developed by the Bond allowed the college to do major campus refurbishing and other general improvements such as: doubling the number of parking spaces; improving campus lighting; opening an extended-campus center in El Centro providing a women's softball field; rejuvenating classrooms, the library, the college center, the counseling center, the print shop; doubling the size of the Meyer Center for Busi-

EDUCATIONAL MASTER PLAN

The Educational Master Plan was developed in collaboration with the members of the Imperial Community College District Board of Trustees, faculty, staff, students, and administration. This Plan provides a sense of vision and a guide for multi-year planning. A comprehensive analysis of both internal and external environments influencing future development of the College, and an examination of the present and anticipated development of both the instruc-

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 complete high school. Evidence of success in classes of college level will permit these adults to continue their educational endeavors.

Coordinated with the general divisions of courses at the college are 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 students with disabilities.

1. Attendance of Local High School Students

Local high school students attending the college are restricted to a spectator's role in college student activities, and extracurricular participation is to be confined to the high school. Counseling is available at the college, but every effort will be made to leave this responsibility to the high school counseling staffs.

Students must attend high school for the minimum school day.

Admission of 11th & 12th Grade High School Students

The governing board of any two-year community college may admit to the community college as a special part-time student any 11th or 12th grade high school student whose admission is recommended by the high school principal. A principal of a high school may recommend a high school student as a special part-time student pursuant to rules and regulations which may be adopted by the governing board of the district maintaining the high school. (Refer to the section on "Admission" in this catalog for more information.)

The attendance of a student at community college as a special 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. 76001)

2. Administration of Justice Credit for Administration of Justice Coursework

POLICY: Students who have successfully completed a certified Basic Academy Program in Law Enforcement or corrections within the last three years may petition for Imperial Valley College coursework credit or waiver within the Administration of Justice curricula. Credit may be given upon documentation of Academy completion and Division Chair approval.

PROCEDURE: To obtain IVC credit for completing a certified Basic Academy program in Law Enforcement, the student should contact the Registrar's Office to petition for credit or waiver. The student must be enrolled at IVC at the time the petition is submitted.

The following certified training academies meet the course requirements listed below:

U.S. BORDER PATROL ACADEMY, D.H.S.		
AJ 110	Police Community Relations	3.0 Units
AJ100	Intro to Administration of Justice	3.0 Units

CALIFORNIA HIGHWAY PATROL ACADEMY		
AJ 141	Arrest & Firearms	3.5 Units

CALIFORNIA P.O.S.T. BASIC ACADEMY		
AJ 100	Intro to Administration of Justice	3.0 Units
AJ 141	Arrest & Firearms	3.5 Units

CALIFORNIA DEPARTMENT OF CORRECTIONS ACADEMY (San Joaquin Delta College Affiliation)		
AJ 141	Arrest & Firearms	3.5 Units

Reserve Officer Program (P.O.S.T)
Imperial Valley College offers a Level III and Level II modular format Reserve Peace Officer program. The courses satisfy the training standards set forth by the California Commission on Peace Officer Standard and Training (P.O.S.T)

Reserve Officer Level III - Upon successful completion the student is eligible to be hired by a law enforcement agency, to per-

3. Apprenticeship Training Programs

Apprenticeship Training Programs provide the participant an opportunity for formal training, consisting of a balance between on-the-job-training (OJT) and the related supplemental instruction (RSI) directly associated with the particular trade or industry. OJT is coordinated through the local employer sponsor. Related supplemental instruction is provided by Imperial Valley College. Refer to the Apprenticeship section of the catalog.

4. Community Education (Non-Credit and Fee Based Courses)

9. Developmental Preschool & Infant/Toddler Centers

The Preschool and Infant/Toddler Centers serve as demonstra-

FEES

All fees and tuition are due and payable at the time of registration.

UNPAID FINANCIAL OBLIGATIONS

Unpaid financial obligations to the college will result in grades, transcripts, diplomas and registration privileges being withheld.

ENROLLMENT FEES

Enrollment Fee*	\$20.00 per Unit
Foreign and Non-Resident Tuition*	\$190.00 per Unit
Student Representation Fee	\$1.00 per Term
Student Health Fee	
Fall/Spring	\$14.00 per Term
Winter/Summer	\$11.00 per Term
Parking Fee#	
Fall/Spring	\$20.00 per vehicle \$15.00 ea. add'l vehicle
Winter/Summer	\$10.00 per vehicle \$7.00 ea. add'l vehicle

*Fees are subject to change without notice. All fees are in U.S. dollars.

Explanation of Fees

The **Enrollment Fee** is mandated by the California State Legislature, with the approval of the Governor and 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.

The **Student Representation Fee** is expended by the college solely for the purpose of student advocacy efforts to Federal, State, and local governments. Students have the right to refuse to pay the fee for religious, moral, political, or financial reasons.

The **Student Health Fee** provides a full-range of health services to IVC students including immunizations, physical exams, basic first aid, health education programs, TB testing, HIV testing, Cholesterol screening, blood pressure screening, and other health services to be determined.

Tuition

Nonresidents and international students are required to pay tuition charges of \$190.00 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, credit cards, debit cards, and bank drafts. Personal checks cannot be accepted. Payment of nonresident and international student tuition cannot be deferred.

Other Fees/Charges

Insufficient Funds Check Charge - There will be a charge of \$25.00 for checks returned to the college because of insufficient funds.

IVC Debit Card Replacement Fee - There is a \$20.00 fee to replace an IVC Debit Card.

REFUND POLICY

There is no need to apply for a refund. All eligible refunds will be processed automatically every week, except for periods of registration or late registration.

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 Parking Control Office.

COMMUNITY SERVICE

It is the aim of Imperial Valley College to provide all students with pertinent information they will need in the formulation of their academic and personal goals and objectives, and to assist them in being aware of and making the most of their interests and opportunities.

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FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)

Release of Information

The Imperial Community College District (ICCD) releases directory information regarding current or former students unless students have specifically requested that directory information be kept confidential.

ICCD designates the following as directory information: name, address, phone number, class schedule, dates of attendance, major field of study, awards and degrees received, most recent institution attended, participation in official college activities and sports, weight and height of members of athletic teams, part-time or full-time enrollment status, and photographs.

In completing the admission application, students are provided the opportunity to request that their directory information be maintained as confidential. Students who wish to change their request, may do so in writing to the Admissions and Records Office at any time to become effective within five to ten working days.

Right to Inspect and Review Records

All currently enrolled or former students have a right to inspect and review all student records relating to them. Student record is defined according to the Family Educational Rights and Privacy Act (FERPA). Students must submit written requests identifying the record(s) they wish to inspect to the Admissions and Records Office.

Access shall be granted no later than 15 school days following the date the written request is received. Within the same 15 school days, the student will be notified of the location of all official student records if not centrally located and qualified personnel will be made available to interpret records where appropriate.

Right to Request Amendment of Student Records

Students may file a written request with the Superintendent/President to correct or remove information recorded in their student records which they allege to be: (1) inaccurate; (2) an unsubstantiated personal conclusion or inference; (3) a conclusion or inference outside of the observer's area of competence; or (4) not based on the personal observation of a named person with the time and place of the observation noted.

Within 30 calendar days of receipt of such request, the Superintendent/President, or his designee, shall meet with the student and the employee who recorded the information in question, if such employee is presently employed by the District. The Superintendent/President, or his designee, shall then sustain or deny the allegations.

If any or all allegations are sustained, the Superintendent/President, or his designee, shall order the correction or removal and destruction of the information. If any or all of the allegations are denied, the student may appeal the decision in writing to the Board of Trustees within 30 calendar days of the denial.

Within 30 days of the receipt of an appeal, the Board of Trustees

3. To certain officials of the U. S. Department of Education, the Comptroller General, and state and local educational authorities, in connection with certain state or federally supported education programs;
4. In connection with a student's request for, or receipt of, financial aid, as necessary to determine the eligibility, amount or conditions of the financial aid, or to enforce the terms and conditions of the aid;
5. To other state and local officials or authorities to the extent that information is specifically required to be reported pursuant to state law adopted prior to November 19, 1974;
6. To organizations conducting certain studies for, or on behalf of, the College;
7. To organizations conducting studies for, or on behalf of, educational agencies or institutions for the purpose of developing, validating, or administering predictive tests, student aid programs, and improving instruction;
8. To accrediting organizations in order to carry out their accrediting functions;
9. To comply with a judicial order or a lawfully issued subpoena;
10. To appropriate persons in connection with an emergency if the knowledge of that information is necessary to protect the health or safety of a student or other persons;
11. To an alleged victim of any crime of violence that results in a institutional disciplinary proceeding against the alleged perpetrator of that crime, with respect to that crime;

Right to File Complaints with the Department of Education

Imperial Valley College students have the right to file complaints with the U. S. Department of Education concerning alleged failures by the College to comply with the Family Educational Rights and Privacy Act. Written complaints should be directed to The Family Policy Compliance Office, U.S. Department of Education, 600 Independence Avenue SW, Washington, DC 20202-4605; (202) 260-3887; FAX (202) 260-9001.

Access Log

A log or record shall be maintained for each student's record that lists all persons, agencies, or organizations requesting or receiving information from the record and their legitimate interests. The listing need not include any of the following:

- Students seeking access to their own records;
- Parties to whom directory information is released;
- Parties for whom written consent has been executed by the student;
- Officials or employees having a legitimate educational interest.

The log or record shall be open to inspection only by the student, the Chief Admissions and Records Officer or his/her designee, and to the Comptroller General of the United States, the Secretary of Education, an administrative head of an education agency, and state educational authorities as a means of auditing the operation of the system.

NO DISCRIMINATION EQUAL OPPORTUNITY POLICY

Imperial Valley College does not discriminate in the admission nor in the offering of programs and activities because of ethnic group identification, national origin, religion, age, gender, race, color, medical condition, Vietnam era status, ancestry, sexual orientation, marital status, or physical or mental disability.

2. A **“nonresident”** is a person who does not have legal residence in California for more than one year and a day prior to the term of enrollment, or is not eligible to establish domicile in accordance with the California Education Code.

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IMPERIAL VALLEY COLLEGE IVC
AP VA CE PLACEME _ AP C AR_

Students may earn credit for College Entrance Examination Board (CEEB) Advance Placement (AP) tests with scores of 3, 4, or 5. AP credit can be used to meet IGETC, CSU GE and A.A./A.S. general education (GE) and/or major requirements.

Students must have the College Board send AP exam results to the IVC Admissions and Records office (hand carried copies will not be accepted) for use on the A.A./A.S. or GE patterns.

Course credit and units granted at Imperial Valley College may differ from course credit and units granted by a transfer institution.

AP EXAM	IVC COURSE Minimum Score of 3 required unless otherwise identified.
Art History	No Course Equivalency 3 semester units
Art Studio (Any Exam)	No Course Equivalency (Credit for the major may be granted upon petition to the Art Dept. and portfolio review.)
Biology	BIOL 100 4 semester units
Calculus AB	Score of 3 - MATH 190 Score of 4 or 5 - MATH 192 5 semester units
Calculus BC	Score of 3 - Math 192 Score of 4 or 5 - MATH 194 5 semester units
Chemistry	Score of 3 or 4 - CHEM 100 4 semester units Score of 5 - CHEM 200 5 semester units
Chinese Language & Culture	No Course Equivalency 3 semester units
Computer Science A	Score of 3 - No Course Equivalency 3 semester units Score of 4 or 5 - CS 220 4 semester units*
Computer Science AB	Score of 3 - No Course Equivalency 3 semester units Score of 4 or 5 - CS 230 4 semester units*
Economics - Macroeconomics	ECON 102 3 semester units
Economics - Microeconomics	ECON 101 3 semester units
English Language & Composition	Score of 3 or 4 - ENGL 101 3 semester units Score of 5 - ENGL 101 and 201 6 semester units
English Literature & Composition	Score of 3 or 4 - ENGL 101 3 semester units Score of 5 - ENGL 101 and 102 6 semester units
Environmental Science	ENVS 110 3 semester units
French Language	Score of 3 - FREN 200 5 semester units Score of 4 or 5 - FREN 210 5 semester units

Geography - Human Geography	GEOG 102 3 semester units
German Language	No Course Equivalency 3 semester units
Government & Politics: United States	POLS 102 3 semester units
Government & Politics: Comparative	POLS 104 3 semester units
History - European History	Score of 3 - HIST 110 3 semester units Score of 4 or 5 - HIST 110 and 111 6 semester units
History - United States History	Score of 3 - HIST 120 3 semester units Score of 4 or 5 - HIST 120 and 121 6 semester units
History - World History	Score of 3 - HIST 100 3 semester units Score of 4 or 5 - HIST 100 and 101 6 semester units
Italian Language & Culture	No Course Equivalency 3 semester units
Japanese Language & Culture	No Course Equivalency 3 semester units
Latin: Vergil	No Course Equivalency 3 semester units
Physics B	PHYS 200 5 semester units
Physics C: Mechanics	PHYS 200 5 semester units
Physics C: Electricity & Magnetism	PHYS 202 5 semester units
Psychology	PSY 101 3 semester units
Spanish Language	Score of 3 - SPAN 200 5 semester units Score of 4 or 5 - SPAN 210 5 semester units
Spanish Literature	No Course Equivalency 3 semester units
Statistics	MATH 119 4 semester units

A.A./A.S.: Students should be aware that AP test credit is evaluated by corresponding it to an equivalent IVC course, e.g. History 120. A student who received AP credit and then takes the equivalent IVC course will have the unit credit for such duplication deducted prior to being awarded the A.A./A.S. degree. Credit by Advanced Placement exam is noted and listed first on a student's transcript, with units assigned and no grade.

CSU GE: The Advanced Placement examinations may be incorporated in the certification of CSU General Education-Breadth requirements by any certifying institution. All CSU campuses will accept the minimum units shown and apply them toward fulfillment of the designated General Education-Breadth area if the examination is included as part of a full or subject-area certification. Please note that individual CSU campuses may choose to grant more units than those specified toward completion of General Education-Breadth requirements.

IGETC: AP exams must be used in area indicated regardless of where the certifying CCC's discipline is located.

Credit for Correspondence and Extension Courses

Students may petition to be awarded a maximum of six transfer units for courses completed through correspondence or an extension program. Only lower division courses from regionally accredited

hensive to determine that the student has essentially the same knowledge and skills as a student who successfully completed the course. Students wishing to attempt a course via "credit by examination" are encouraged to discuss the matter with a Counselor prior to initiating the formal process. Counseling Center, Building 100, Telephone: (760) 355-6543.

ACADEMIC RENEWAL

Academic Renewal is a policy to exclude grades of D or F from the calculation of a student's grade point average (GPA), without repeating the courses, because they are not reflective of the student's true academic ability.

If granted, the courses and grades remain on the student's transcript, but are annotated as excluded from the calculation of the GPA due to academic renewal.

Academic renewal applies to grades of D and F only. A maximum of 30 units may be

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Dishonesty in the classroom is considered a very serious offense. Any form of cheating, turning in work which is not one's own (plagiarism), is grounds for disciplinary action. The consequences of these actions are severe and may include the possibility of expulsion.

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policies, procedures, or practices, in compliance with Title VI of the Civil Rights Act of 1964 (pertaining to race, color or national origin), Title IX of the Education Amendments of 1972 (pertaining to disability) and the Age Discrimination Act of 1975 (pertaining to age). For complaints of this nature, please refer to the Discrimination Complaint Form.

For a clarification regarding student conduct issues of discrimination issues, the student may contact the Associate Dean of Student Affairs, Associate Dean of Disabled Student Programs and Services, or Title IX Officers.

Informal Resolution

A complaint must be initiated within twenty (20) instructional days of the alleged act or decision. If the alleged circumstance or act occurs during the last twenty (20) instructional days of the Spring semester, the complaint must be made prior to the end of the third Friday of the Fall semester.

Step 1

Definitions:

A "Student" is a person enrolled at Imperial Valley College within 30 days of the alleged act or decision.

"Instructional Days" are those when the college is in session and classes are being held, excluding Saturdays and Sundays.

CAMPUS REGULATION

A speed of 10 mph on campus must be strictly observed. All non-district, self-propelled and/or any motor driven means of movement, other than wheelchairs, are prohibited from using campus sidewalks and playing courts.

Imperial Valley College is a tobacco and smoke-free campus.

PETITION AND HEARING PROCEDURE

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 Community 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 Admissions and Records 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. Access to Student Records and Challenge Procedure
3. Grievance Procedure Policy in Matters of Nondiscrimination.

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.

ADMISSIONS AND REGISTRATION

A student who fails to attend the first meeting of a class may 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 during any semester when absences after the close of registration have exceeded the number of class hours which the class meets per week.

A student who is tardy three times may be considered as having been absent once. Absences attributed to the representation of the

college at officially approved conferences and contests and attendance upon field trips will not be counted as absences.

VOLUNTARY WITHDRAWAL

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

ELIGIBILITY AND CERTIFICATION OF VETERAN STATUS APPLICATION

Imperial Valley College (IVC) is an accredited institution of postsecondary education. It has the approval to offer eligible veterans and their dependents military service connected benefit programs leading to an Associate Degree or transfer to a four-year institution. The Veterans Assistant, located in the Counseling Center, provides guidance and assistance to veterans and their eligible dependents in establishing their eligibility for student educational benefits. The educational assistance program provided to eligible veterans and/or their dependents, is largely dependent on when the veteran served on active duty. The Department of Veterans Affairs (DVA) administers several educational assistance programs for which basic eligibility may vary from one to another. Generally, only the DVA can determine an applicant's eligibility for educational assistance. In some instances, the specific military branch of service makes the eligibility determination.

The final responsibility for monitoring the process of qualifying for educational benefits rests with the individual applicant. Each applicant must read, understand, and comply with the many rules, regulations, and procedures that influence the benefit process.

GRADUATION REQUIREMENTS

ASSOCIATE DEGREE

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 filed with the Admissions and Records Office (see petition form for deadlines).

Additional Associate Degree(s) or Major(s) may be earned if the student completes those required courses and units beyond the prior degree(s) or major(s). Courses used in one major may be utilized in other majors as they apply. If a student breaks 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.

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

Students may satisfy the major requirement in the following fields of study. Individual courses of study for each major are listed after the Courses of Instruction.

- A.S. Administration of Justice
- A.S. Agricultural Business Management
- A.S. Agricultural Science
- A.S. Air Conditioning and Refrigeration Technology (pending approval)
- A.S. Alcohol and Drug Studies
- A.A. Anthropology
- A.A. Art
- A.S. Automotive Collision Repair
- A.S. Automotive Technology
- A.A. Behavioral Science
- A.S. Business Administration
- A.S. Business Financial Services
- A.S. Business Management
- A.S. Business Marketing
- A.S. Business Accounting Technician Technology

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III. INSTITUTIONAL REQUIREMENTS

Transferable Coursework

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 one of 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-defn-

2. Select one course from any subject area below.

AJ 100	(3)	*HIST/LAS 131	(3)
AJ 106	(3)	HIST/LAS 132	(3)
AG 160	(3)	*HIST 140	(3)
ADS/SOC 150	(3)	*HIST 150	(3)
AIS/ANTH 104	(3)	*HIST 160	(3)
AIS/ANTH 106	(3)	*HIST 220	(3)
AIS/ANTH 108	(3)	*HIST 222	(3)
ANTH 102	(3)	*HIST 223	(3)
ANTH/AIS 104	(3)	*LAS/HIST 130	(3)
ANTH/AIS 106	(3)	*LAS/HIST 131	(3)
ANTH/AIS 108	(3)	LAS/HIST 132	(3)
*+CDEV/PSY 104	(3)	POLS 100	(3)
ECON 101	(3)	*POLS 102	(3)
ECON 102	(3)	POLS 104	(3)
GEOG 102	(3)	POLS 106	(3)
GEOG 104	(3)	PSY 101	(3)
GEOG 108	(3)	*+PSY/CDEV 104	(3)
*HIST 100	(3)	PSY 142	(3)
*HIST 101	(3)	PSY 202	(3)
*HIST 110	(3)	PSY/SOC 206	(3)
*HIST 111	(3)	SOC 101	(3)
*HIST 120	(3)	SOC 102	(3)
*HIST 121	(3)	SOC/ADS 150	(3)
*HIST/LAS 130	(3)	SOC/PSY 206	(3)

ENGLISH AND FOREIGN LANGUAGE DEVELOPMENT
(3 semester or 4 quarter units)

*+CDEV/PSY 104	(3)	PSY 144	(3)
HE 102	(3)	PSY 146	(3)
PD 100	(3)	+PSY 204	(3)
*+PSY/CDEV 104	(3)	SOC 110	(3)

* Courses designated with an asterisk may be counted in one area only.
+ Indicates that transfer credit may be limited by either UC or CSU or both.
REFERENCE: www.assist.org

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

The Intersegmental General Education Transfer Curriculum (IGETC) is a general education program which community college transfer students may use to fulfill lower-division general education requirements in either the California State University or University of California system. Completion of the IGETC is not a requirement for admission to CSU or UC, nor is it the only way to fulfill lower-division GE requirements.

The IGETC is recommended for students who have not made a final decision about transferring to a particular CSU or UC campus. Students may be better served by following the CSU GE requirements or those of the UC campus to which they plan to transfer. Students pursuing majors which require extensive lower-division major preparation may not find the IGETC option to be advantageous. There are other limitations. All courses used for IGETC must be passed with a **minimum grade C**. (C minus is not acceptable.) A credit or pass is acceptable providing either is equivalent to a grade "C" or better.

Please make a counseling appointment to determine the most appropriate general education program for you.

Certification: All GE requirements must be completed before IGETC can be certified. Certification must take place **prior** to transfer to UC and/or CSU. The Admissions Office will complete the certification. To request certification, the student should file a request at the Registrar's Office. As a general rule, the IGETC can be certified for California community college transfers who have also completed transfer units at a CSU, UC, or independent college **provided that the student has completed most of the transfer units at one or more California community colleges.**

Restrictions: A student who has been registered at a UC campus and wishes to return to the same UC campus is **NOT** eligible for IGETC. This restriction does not apply to students who have taken UC summer session or Extension classes only.

1. ENGLISH COMMUNICATION

CSU 3 courses required, 1 course from group A, 1 course from group B and 1 course from group C.

UC 2 courses required, 1 course from group A and 1 course from group B.

- A. English Composition - 3 semester/4-5 quarter units.
ENGL 101 (3)
- B. Critical Thinking/English Composition - 3 semester/4-5 quarter units.
ENGL 201 (3)
- C. Oral Communication - 3 semester/4-5 quarter units.
(**CSU ONLY**)
SPCH 100 (3)
SPCH 180 (3)

2. MATHEMATICAL COMPUTATION AND ALGEBRA
3 semester/4-5 quarter units.

MATH 119	(4)	MATH 194	(5)
MATH 122	(3)	MATH 210	(5)
+MATH 150	(4)	MATH 220	(3)
+MATH 170	(4)	MATH 230	(3)
+MATH 190	(5)	MATH 240	(3)
+MATH 192	(5)		

ARTS AND HUMANITIES 9 semester/12-15 quarter units.
At least 3 courses with at least 1 from the Arts and 1 from the Humanities.

ARTS COURSES

ART 100	(3)	MUS 104	(3)
ART 102	(3)	MUS 120	(3)
ART 104	(3)	MUS 122	(3)
ART 106	(3)	MUS 200	(3)
ENGL/HUM 230	(3)	MUS 202	(3)
HUM/ENGL 230	(3)	MUS 220	(3)
+MUS 100	(3)	MUS 222	(3)
MUS 102	(3)	THEA 100	(3)

HUMANITIES COURSES

AMSL 102	(4)	*HIST 140	(3)
AMSL 200	(3)	*HIST 150	(3)
ENGL 102	(3)	*HIST 160	(3)
ENGL 220	(3)	*HIST 222	(3)
ENGL 221	(3)	*HIST 223	(3)
ENGL 222	(3)	HUM 100	(3)
ENGL 223	(3)	HUM/ENGL 226	(3)

ENGL 224	(3)	HUM/SPAN 252	(3)
ENGL 225	(3)	*LAS/HIST 130	(3)
ENGL/HUM 226	(3)	*LAS/HIST 131	(3)
ENGL 228	(3)	*LAS/HIST 132	(3)
ENGL 270	(3)	PHIL 100	(3)
FREN 110	(5)	PHIL 102	(3)
FREN 200	(4)	PHIL/RELS 104	(3)
FREN 210	(4)	RELS 100	(3)
FREN 220	(4)	RELS/PHIL 104	(3)
*HIST 100	(3)	*SPAN 110	(5)
*HIST 101	(3)	*SPAN 200	(5)
*HIST 110	(3)	*SPAN 210	(5)
*HIST 111	(3)	*SPAN 220	(5)
*HIST/LAS 130	(3)	SPAN 221	(5)
*HIST/LAS 131	(3)	SPAN 225	(3)
*HIST/LAS 132	(3)	SPAN/HUM 262	(3)

AG 140 (L)	(4)	BIOL 180 (L)	(4)
AG 170 (L)	(3)	BIOL 182 (L)	(4)
ANTH 100	(3)	+BIOL 200 (L)	(4)
+BIOL 100 (L)	(4)	+BIOL 202 (L)	(4)
BIOL 120 (L)	(4)	+BIOL 204 (L)	(4)
BIOL 122 (L)	(4)	+BIOL 206 (L)	(4)
BIOL 140	(3)	BIOL 220 (L)	(5)
BIOL 150	(3)	*PSY 200	(3)

SOCIAL BEHAVIORAL SCIENCE 9 semester/12-15 quarter units.

At least 3 courses from at least 2 disciplines.

ADS/SOC 150	(3)	*HIST 150	(3)
AIS/ANTH 104	(3)	*HIST 160	(3)
AIS/ANTH 106	(3)	HIST 220	(3)
AIS/ANTH 108	(3)	*HIST 222	(3)
ANTH 102	(3)	*HIST 223	(3)
ANTH/AIS 104	(3)	*LAS/HIST 130	(3)
ANTH/AIS 106	(3)	*LAS/HIST 131	(3)
ANTH/AIS 108	(3)	*LAS/HIST 132	(3)
+CDEV/PSY 104	(3)	POLS 100	(3)
ECON 101	(3)	*POLS 102	(3)
ECON 102	(3)	POLS 104	(3)
*GEOG 100	(3)	POLS 106	(3)
GEOG 102	(3)	PSY 101	(3)
GEOG 104	(3)	+PSY/CDEV 104	(3)
GEOG 108	(3)	PSY 146	(3)
*HIST 100	(3)	*PSY 200	(3)
*HIST 101	(3)	PSY 202	(3)
*HIST 110	(3)	+PSY 204	(3)
*HIST 111	(3)	PSY/SOC 206	(3)
*HIST 120	(3)	PSY 208	(3)
*HIST 121	(3)	SOC 101	(3)
*HIST/LAS 130	(3)	SOC 102	(3)
*HIST/LAS 131	(3)	SOC/ADS 150	(3)
*HIST/LAS 132	(3)	SOC/PSY 206	(3)
*HIST 140	(3)		

LANGUAGE OTHER THAN ENGLISH
(UC Requirement Only)

Complete 2 years of the same foreign language in high school with a grade of C or better **OR** earn a score of 3 or higher in the College Board Advanced Placement exams in languages other than English **OR** earn a satisfactory score on the SAT II: Subject Test in languages other than English, (see a counselor for specific courses) **OR** complete with C grades or better, two years of formal schooling at the sixth grade level or higher in an institution where the language of instruction is not English **OR** complete 4-5 units from the courses below.

AMSL 100	(4)
FREN 100	(5)
SPAN 100	(5)

OR Validated by a more advanced course (course can also count in Area 3)

C U GRAUATION REQUIREMENT - INTERNATIONAL CO-CURRICULAR AMERICAN REAL

(Not part of IGETC; may be completed prior to transfer.)

Courses used to meet this requirement may NOT be used to satisfy requirements for IGETC. **One course from Political Science and one course from History. Six (6) semester units.**

- a. Political Science: *POLS 102 (3.0)
- b. History: *HIST 120 (3.0) OR *HIST 121 (3.0)

* Courses designed to assist students in preparing for the area...
** Courses designed to assist students in preparing for the area...

PHYSICAL AND BIOLOGICAL SCIENCE

7-9 semester/9-12 quarter units. 2 courses, 1 Physical Science course and 1 Biological Science course; at least 1 course must include a laboratory (L).

PHYSICAL SCIENCE COURSES

AG/ENVS 110	(3)	ENVS/AG 110	(3)
AG 120 (L)	(3)	*GEOG 100	(3)
ASTR 100	(3)	GEOL 100 (L)	(4)
+CHEM 100 (L)	(4)	+GEOL 110	(3)
CHEM 160 (L)	(5)	+PHSC 110	(3)
CHEM 200 (L)	(5)	PHYS 200 (L)	(5)
CHEM 202 (L)	(5)	PHYS 202 (L)	(5)
CHEM 204 (L)	(5)	PHYS 204 (L)	(5)
CHEM 206 (L)	(5)		

BIOLOGICAL SCIENCE COURSES



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a vital factor in maintaining academic standards, as it is to avoid establishing prerequisites where they are not needed. For these reasons, the board has sought to establish a policy that fosters the appropriate balance between these two concerns. (See Board Resolution 10665 for the complete policy)

Definition

Prerequisite means a condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program. ***Courses used to satisfy a prerequisite must be completed with a grade of "C" or better.***

Corequisite means a condition of enrollment consisting of a course that a student is required to simultaneously take in order to enroll in another course.

Advisory on Recommended Preparation means a condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program.

Limitations on Enrollment

COUR E UMBERI G

001-099 Non-Transferable/Non-Degree Applicable or

AJ 106 3.0 UNITS

PRINCIPLES AND PROCEDURES OF THE JUSTICE SYSTEM

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: Completion on ENGL 099 (Formerly ENGL 100) and ENGL 089 with a grade of "C" or better.

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 procedure, from initial entry to final disposition, and the relationship each segment maintains with its system member. (CSU)

AJ 110 3.0 UNITS

POLICE COMMUNITY RELATIONS

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: Completion of ENGL 099 (Formerly ENGL 100) and ENGL 089 with a grade of "C" or better.

Through interaction and study, the student will become aware of the relationship and role expectations among the various

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AJ 142 10.0 UNITS
RESERVE OFFICER LEVEL III

Term Hours: 180 Lec, 0 Lab

Letter Grade only

Prerequisites as required by P.O.S.T.: No felony or domestic violence convictions. Valid California driver license. Ability to successfully participate in physical requirements of course. U.S. citizen or have applied for U.S. citizenship.

Corequisite: Department of Justice fingerprint clearance.

Recommended Preparation: Completion of ENGL 099 (Formerly ENGL 100) and ENGL 089 with a grade of "C" or better.

Designed to satisfy the Reserve Officer Level III training standards as set forth by the Commission on Peace Officer Standards and Training (P.O.S.T.). Includes professionalism and ethics, laws of arrest, search and seizure, vehicle operations, report writing, First Aid/CPR, traffic control, arrest and control tactics and weaponry, use of force, custody, and use and care of firearms. Supply fee may be charged. Designed to prepare students to be hired by a law enforcement agency as a Reserve Officer Level III. (CSU)

AJ 144 13.5 UNITS
RESERVE OFFICER LEVEL II

Term Hours: 243 Lec, 0 Lab

Letter Grade or Credit/No Credit

Prerequisites: AJ 141, AJ 142 as required by P.O.S.T. before January 1, 2007 or AJ 142 after January 1, 2007, compliant with 832 P.C. No

felony or domestic violence convictions.elbLfdNvicOS LYcNbObNLfdNvgYc'NarOiolencOgYc'Ni WcaNNoOSWVNrOSW u, FFsmZWYNvicOccYNvic

AG 110 3.0 UNITS
ENVIRONMENTAL SCIENCE

Term Hours: 54 Lec, 0 Lab

Letter Grade only

This course is designed to provide students with an overview and understanding of the relationships between human populations and the natural environment. The class will focus on basic concepts of science and ecosystem theory, human impacts on the air, water, and land, environmental problems faced by the Imperial Valley that have regional and global consequences, and some of the proposed solutions. (Same as ENVS 110) (CSU, UC)

AG 120 3.0 UNITS
SOIL SCIENCE

Term Hours: 36 Lec, 54 Lab

Letter Grade only

Recommended Preparation: MATH 080 and CHEM 100.

This course provides a basic knowledge of the physical, chemical, and biological properties of soils and their characteristics. Includes fundamental soil properties, soil-plant relationships, soil formation, fertilization and soil management, salinity, pH, erosion management, soil moisture and non-agricultural uses. (CSU, UC)

AG 130 3.0 UNITS
AGRICULTURAL ECONOMICS

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Introduction to the economic aspects of agricultural management. The role of agricultural resources in economic growth. Survey of trade, policy, and marketing activities of agriculture. (CSU, UC)

AG 132 3.0 UNITS
BUSINESS MANAGEMENT

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: BUS 124.

A study of management theories and processes as they apply in the contemporary business world. The course is based on the application of the four functions of management - planning, organizing, leading, and controlling - in the effective achievement of organizational objectives. Management activities are practiced in organizational situations using case studies, simulations, and class projects. (Same as BUS 132) (CSU)

AG 134 3.0 UNITS
AGRICULTURAL BUSINESS ORGANIZATION

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: AG/BUS 132.

Study of farm technological advance, marketing, consumer demand,

AG 170 3.0 UNITS
PRINCIPLES OF ENTOMOLOGY

Term Hours: 36 Lec, 54 Lab

Letter Grade only

This course covers the principles of the classification, identification, anatomy, physiology, ecology, management, and collecting of arthropods (i.e., insects, spiders, mites, etc.), with emphasis on those of importance to agriculture. (CSU, UC)

AG 220 3.0 UNITS
IRRIGATION AND DRAINAGE

Term Hours: 36 Lec, 54 Lab

Letter Grade only

Recommended Preparation: AG 120.

This course covers the fundamental principles and practices of irrigation. History of irrigation with emphasis on the Imperial Valley, water law, plant-soil-water measurement, methods of irrigation, structures, crop water needs, problems and practices in soil reclamation, drainage systems, and drainage requirements for irrigated agriculture will be discussed. (CSU)

AG 230 3.0 UNITS
FERTILIZERS AND SOIL AMENDMENTS

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: AG 120.

This course covers the nature of fertilizers and soil amendments, their properties, methods of application, and effects on plants, soils, and the environment. The composition, value, and use of fertilizer materials and soil amendments are discussed. Methods employed in the production, distribution, and application of fertilizers and soil amendments are described. (CSU)

AG 240 4.0 UNITS
FIELD AND CEREAL CROPS

Term Hours: 54 Lec, 54 Lab

Letter Grade only

Recommended Preparation: AG 120 and AG 140.

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

AG 250 3.0 UNITS
VEGETABLE CROP PRODUCTION

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: AG 120 and AG 140.

This course addresses the principles involved in vegetable crop production, covering the world's principle vegetable crops, with emphasis on the development, production, ecology, harvesting, packaging, marketing, global trade, and consumer issues of the major vegetable crops grown in California. (CSU)

AG 260 3.0 UNITS
PLANT PROTECTION AND INTEGRATED PEST MANAGEMENT

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Identification of pests (arthropods, rodents, and plant diseases) and beneficial (arthropods and diseases) in the crop system. Methods of reducing damage to acceptable levels with biological, chemical, and cultural controls. Laws and safety requirements for using spray equipment and pesticides in California. (CSU)

AG 270 3.0 UNITS
WEEDS AND WEED CONTROL

Term Hours: 54 Lec, 0 Lab

Letter Grade only

This course covers the classification, life cycles, characteristics, and management of weeds with emphasis on common and noxious weeds of California. It looks at chemicals and equipment as well as cultural, mechanical, and biological control methods used in managing weeds on cultivated land, in irrigation ditches, on the range, and on wasteland. Poisonous weeds, their effects, and prevention are discussed. (CSU)

AIR CO N D I T I O N I N G A N D R E F R I G E R A T I O N S Y S T E M S**ACR 101 3.0 UNITS**
AIR CONDITIONING AND REFRIGERATION SYSTEMS

Term Hours: 36 Lec, 54 Lab

Letter Grade only

Recommended Preparation: ACR 103.

This is a course of study in heating, ventilation, air conditioning, and refrigeration trade. This course includes the study of the laws of thermodynamics, the refrigeration cycle, brazing of refrigerant lines, understanding the use of and maintenance of heating, ventilation, air conditioning, and refrigeration equipment, applicable safety practices, and the proper use of refrigerants. (CSU)

ACR 102 3.0 UNITS
RESIDENTIAL AIR CONDITIONING SYSTEMS

Term Hours: 36 Lec, 54 Lab

Letter Grade only

Recommended Preparation: Completion of ACR 101 and ACR 103 with a grade of "C" or better.

This course of study includes the installation of residential heating, ventilation, air conditioning and refrigeration systems. This course is comprised of the study of building and electrical codes, HVAC/R installation materials, brazing of line sets, installing split systems, installing heat pumps, installing gas packs, and applicable safety practices. (CSU)

ACR 103 3.0 UNITS
AIR CONDITIONING ELECTRICAL CIRCUITS AND CONTROLS

Term Hours: 36 Lec, 54 Lab

Letter Grade only

Recommended preparation: ACR 101.

This is a course of study in electrical circuits and controls used in the heating, ventilation, air conditioning, and refrigeration industry. This course is comprised of the study of Ohms Law, electrical meters and test equipment, wiring materials, wiring diagrams and schematics, electrical components, installation of controls, layout of electrical circuits, and safety practices. (CSU)

ACR 104 3.0 UNITS
AIR CONDITIONING HEATING SYSTEMS

Term Hours: 36 Lec, 54 Lab

Letter Grade only

Recommended Preparation: Completion of ACR 101, ACR 102 and ACR 103 with grades of "C" or better.

This course of study includes heating systems used in the heating, ventilation, air conditioning and refrigeration industry. This course is comprised of the study of natural gas, fuel oil, propane, and electric burner assemblies and ignition systems, and heat exchangers, venting, control circuits, electric coils, installation practices, applicable building codes, and safety procedures. (CSU)

ACR 105 2.0 UNITS
HEAT LOAD CALCULATION AND MEASUREMENTS

Term Hours: 36 Lec, 0 Lab

Letter Grade only

Recommended Preparation: Completion of ACR 101, ACR 102, ACR 103, and ACR 104 with grades of "C" or better.

This course of study includes theories and factors that affect heating and cooling loads, on residential and light commercial buildings. Calculations and measurement techniques of proper capacity and unit size will be studied and applied to residential and light commercial buildings. (CSU)

ACR 106 3.0 UNITS
AIR CONDITIONING VENTILATION DUCT SYSTEMS

Term Hours: 36 Lec, 54 Lab

Letter Grade only

Recommended Preparation: Completion of ACR 105 with a grade of "C" or better.

This is a course of study covering duct systems used in the heating, ventilation, air conditioning, and refrigeration industry. This course is comprised of the study of designing duct systems, duct materials, layout procedures, shop and hand tools, sheet metal ducts and components, duct board and flex duct components, and safety practices. (CSU)

ALCOHOL AND DRUG ABUSE

ADS 101 3.0 UNITS
ALCOHOLISM: INTERVENTION, TREATMENT, AND RECOVERY

Term Hours: 54 Lec, 0 Lab

Letter Grade only

This course will serve as an introduction to assessment and treatment approaches to alcoholism and drug abuse. Alcoholism will be studied in its social and clinical context. Attention will be given to the basic theoretical approaches to the disease. This course will examine the various components of intervention, treatment, recovery, and resources. (CSU)

ADS 110 3.0 UNITS
PHYSIOLOGICAL EFFECTS OF ALCOHOL AND DRUGS

Term Hours: 54 Lec, 0 Lab

Letter Grade only

The course is designed to provide the student with information on the processing systems of the body and how they react to alcohol and drugs. This course will seek to explain where and how drugs act and why. The course will bring about an understanding of how

drugs influence consciousness, mood and feeling. It will enable stu-

AHP 072 4.5 UNITS

ADMINISTRATIVE MEDICAL ASSISTANT II

Term Hours: 81 Lec, 0 Lab

Letter Grade only

Prerequisite: AHP 070.

This course is designed to prepare students to operate office management equipment, prepare the patient's medical records, understand medical care expenses, credit arrangements, bookkeeping procedures, collection on overdue accounts, health insurance, billing, banking, and general management. (Nontransferable, AA/AS degree only.)

AHP 074 2.0 UNITS

CLINICAL EXTERNSHIP I

Term Hours: 0 Lec, 108 Lab

Letter Grade only

Prerequisite: AHP 072.

AHP 108 2.0 UNITS

INTRODUCTION TO PHARMACY TECHNOLOGY

Term Hours: 36 Lec, 0 Lab

Letter Grade only

Recommended Preparation: Medical Terminology (AHP 100), Anatomy and Physiology for Health Occupations (BIOL 090), Beginning Algebra (MATH 080), and Introduction to Information Systems (CIS 101).

AMSL 212 3.0 UNITS

INTERPRETING AMERICAN SIGN LANGUAGE 2

Term Hours: 54 Lec, 0 Lab

Letter Grade or Credit/No Credit

Recommended Preparation: AMSL 210.

AMSL 212 focuses students' sign language facility on the development of English to AMSL interpreting skills. The primary focus of the training is on interpreting in medical, legal, mental health and other specialized settings, along with continued development of related idiomatic and vocabulary sign skills. Students are presented and are asked to discuss in the target language the case studies related to the interpreter code of ethics. (CSU)

A _ ROPOLOGY

ANTH 100 3.0 UNITS

PHYSICAL ANTHROPOLOGY

Term Hours: 54 Lec, 0 Lab

Letter Grade only

The process and cause of human evolution; mankind's place in na-

ART 140 3.0 UNITS

CERAMICS

Term Hours: 36 Lec, 72 Lab

Letter Grade only

An introduction to ceramics; basic methods of forming, decorating, glazing and firing. Maximum credit six units. Additional materials fee applies: \$15.00. (CSU, UC)

ART 150 3.0 UNITS

SCULPTURE

Term Hours: 36 Lec, 72 Lab

Letter Grade only

An introduction to materials, methods, and techniques with an em-

ART 260 3.0 UNITS
ADVERTISING/GRAPHIC DESIGN

Term Hours: 36 Lec, 54 Lab

Letter Grade only

Emphasis on advanced techniques and individualized studies relative to the preparation of a portfolio for use in admittance to a university or professional school or in seeking employment. Additional materials fee applies: \$15.00. (CSU)

ART 262 3.0 UNITS
GALLERY DISPLAY

Term Hours: 18 Lec, 72 Lab

Letter Grade only

Theories, techniques and practices of art gallery exhibition including experience in care and preservation of art and seeing an exhibition from beginning to end; methods of locating shows, booking shows, communicating with artists, unpacking and returning exhi-

AUTOMOTIVE TECHNOLOGY

AUT 070 3.0 UNITS

AUTOMOTIVE TECHNIQUES AND APPLICATIONS

Term Hours: 18 Lec, 108 Lab

Letter Grade only

Recommended Preparation: AUT 125 and AUT 130.

This course is designed for students that already completed classes in brakes, suspension, wheel alignment, and basic automotive electronics or students who are currently employed in the automotive field. This course consists of reviews of hands-on using worksheets related to diagnose brake repair, steering/suspension repair and four wheel alignment. In addition, the student will be using the latest diagnostic equipment and service techniques of the automotive field. May be taken for a maximum of 6 units. (Nontransferable, nondegree applicable)

AUT 075 3.0 UNITS

BASIC SHOP SKILLS

Term Hours: 54 Lec, 0 Lab

Letter Grade only

This is a comprehensive course in tool usage, nomenclature, and terminology of tools and equipment for the beginning student in the technologies. The course is for the student who has not developed a background in industrial technology, as well as for the bilingual student who wants to improve his/her technical vocabulary. (Same as AGET 075) (Nontransferable, AA/AS degree only)

AUT 085 3.0 UNITS

AUTOMOTIVE MAINTENANCE AND REPAIR

Term Hours: 36 Lec, 54 Lab

Letter Grade only

This course is designed for students with little or no previous automotive maintenance training. This course consists of automotive safety, demonstrations of emergency situations, such as changing a flat tire, replacing burned-out lamps, and performing general vehicle maintenance and repairs. In addition, the student will learn the correct and safe way to use basic hand tools. (Nontransferable, AA/AS degree only)

AUT 100 3.0 UNITS

SMALL GASOLINE ENGINES

Term Hours: 36 Lec, 36 Lab

Letter Grade only

The history, design, construction, and mechanical function of the small gasoline engine, including tune-up and major repair of the electrical and mechanical systems. (Same as AGET 100) (CSU)

AUT 110 4.0 UNITS

ENGINE TECHNOLOGY

Term Hours: 36 Lec, 108 Lab

Letter Grade only

For the student with little or no internal combustion engine background. Design, 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. (CSU)

AUT 120 4.0 UNITS

AUTOMOTIVE MACHINE SHOP

Term Hours: 36 Lec, 108 Lab

Letter Grade only

Recommended Preparation: AUT 110 or two years of high school auto mechanics.

Review and advanced study of the internal combustion engine and service procedures in the use of automotive machine shop tools and machines for rebuilding the engine. (CSU)

AUT 122 4.0 UNITS

HIGH PERFORMANCE ENGINE BLUEPRINTING I

Term Hours: 36 Lec, 108 Lab

Letter Grade only

Recommended Preparation: MATH 070, AUT 110, AUT 120, or two years high school auto shop.

The student learns advanced set-up and operation procedures of machine shop equipment for engine blueprinting. The student will learn the procedures used to complete the machining of the engine block and component parts. The differences between standard and high performance applications.

AUT 155 4.0 UNITS
SUSPENSION AND WHEEL ALIGNMENT

AUT 240 3.0 UNITS
DIESEL ENGINE TUNE UP

Term Hours: 36 Lec, 54 Lab

Letter Grade only

Prerequisite: AUT 110

This course covers the principles of tune-up and the procedures for servicing the diesel engine. Practical emphasis is placed on proper disassembling, diagnosis calibrating, and testing different types of pumps and injectors. Proper servicing procedures will be followed in servicing, testing, and analyzing the fuel system and electrical circuits. (CSU)

AUT 250 4.0 UNITS
ELECTRONIC AUTOMATIC TRANSMISSIONS

Term Hours: 36 Lec, 108 Lab

Letter Grade only

Prerequisite: AUT 220

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 transaxles. Applied shop practices for advanced students who wish to refine technical skills prior to obtaining employment in the industry. (CSU)

BIOL

BIOL 080 3.0 UNITS
ANATOMY AND PHYSIOLOGY REVIEW

Term Hours: 54 Lec, 0 Lab

Credit/No Credit only

Recommended Preparation: Students are expected to have completed courses in anatomy and physiology. Participants will review the basic concepts of anatomy and physiology in preparation for achieving an acceptable score on the TEAS examination, in those areas covered by this course, for admission into the program for the RN or LVN degrees. Emphasis is placed on the areas frequently found difficult by students during their preparative courses. Also emphasized in the course are vocabulary building, analysis of graphical presentation of important scientific concepts, and critical thinking concerning the impact of disease on the anatomy and functions of the various interrelated systems of the human organism. (Non-transferable, nondegree applicable)

BIOL 090 3.0 UNITS
ANATOMY AND PHYSIOLOGY FOR HEALTH OCCUPATIONS

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Introductory study of the structure and function of the human organism. Class is structured for health occupation students. It is not acceptable for pre-medical, pre-dental, pre-chiropractic, pre-physical therapy, or registered nursing students, and it is not open to students who have completed BIOL 200, BIOL 202, BIOL 204, BIOL 206 with a grade of "C" or better. (Nontransferable, AA/AS degree only)

BIOL 092 4.0 UNITS
MICROBIOLOGY FOR ADVANCED PLACEMENT OF NURSING STUDENTS

Term Hours: 36 Lec, 108 Lab

Letter Grade only

Prerequisite: CHEM 100 and BIOL 100 with a grade of "C" or better

BIOL 220 5.0 UNITS
GENERAL MICROBIOLOGY

Term Hours: 54 Lec, 108 Lab

Letter Grade only

Prerequisite: MATH 090 and CHEM 100 and BIOL 100 or BIOL 120 or BIOL 180 or BIOL 182 with grades of "C" or better; or MATH 090 with a grade of "C" or better and current California LVN license.

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

BUILDING CONSTRUCTION

BLDC 110 3.0 UNITS
CONSTRUCTION BLUEPRINTS, SPECIFICATIONS, MEASUREMENTS, AND CODES

Term Hours: 36 Lec, 54 Lab

Letter Grade only

This is an introduction to construction blueprint reading and specifications. Study of the methods of graphic representation of building materials, symbols, measurements, and interpretation of building codes. (Nontransferable, AA/AS degree only)

BLDC 130 4.0 UNITS
CARPENTRY LAYOUT AND FRAMING

Term Hours: 36 Lec, 108 Lab

Letter Grade only

Recommended Preparation: BLDC 110 and BLDC 140.

This course provides instruction in building layout and structural framing systems typical to residential construction and will include: materials, fasteners, measuring, use of tools, construction safety, and hands-on applications. (Nontransferable, AA/AS degree only)

BLDC 135 3.0 UNITS
RESIDENTIAL PLUMBING APPLICATIONS

Term Hours: 36 Lec, 54 Lab

Letter Grade only

Recommended Preparation: BLDC 110.

This course is an introductory study of the layout and fabrication of a residential plumbing system. Discussion will include water and waste water plumbing systems for residential applications. In addition there will be a component on residential plumbing design, with emphasis on repair and maintenance of fixture faucets and drains and water leaks. Installations will be guided by the local and national plumbing codes. Learning opportunities will be enhanced through a combination of lecture and laboratory activities. (Nontransferable, AA/AS degree only)

BLDC 140 3.0 UNITS
BUILDING CONSTRUCTION METHODS AND MATERIALS

Term Hours: 36 Lec, 54 Lab

Letter Grade only

Recommended Preparation: Average to above average mathematics and communications skills.

This course will introduce students to construction methods and materials, the characteristics of materials, and construction processes. Methods, equipment, personnel, regulatory organizations, and safety considerations which are common factors in the construction industry will be discussed. (Nontransferable, AA/AS degree only)

BLDC 145 3.0 UNITS
CONCRETE FORMWORK

BLDC 170 3.0 UNITS

ESSENTIALS OF EFFICIENT GREEN CONSTRUCTION

Term Hours: 36 Lec, 54 Lab

Letter Grade only

Recommended Preparation: BLDC 110.

This course is an introductory study in sustainable building resources and applications, LEED certification requirements, home performance concepts, California Energy Codes, green building, and their relationships to the environment and residential construction.

BUS 126 3.0 UNITS
BUSINESS AND THE LEGAL ENVIRONMENT

BUS 156 3.0 UNITS

KEYBOARDING: SPEED AND ACCURACY

Term Hours: 36 Lec, 36 Lab

Letter Grade or Credit/No Credit

Recommended Preparation: Ability to keyboard 20 nwpm.

An individualized diagnostic, prescriptive method of developing accuracy and speed. Emphasis is placed on development of keyboarding speed and accuracy ratings between 20-90 nwpm. Maximum credit nine units. (CSU)

BUS 164 3.0 UNITS

OFFICE TECHNOLOGY & PROCEDURES I

Term Hours: 36 Lec, 36 Lab

Letter Grade or Credit/No Credit

Recommended Preparation: Keyboard skills of 20 nwpm.

This course stresses those competencies required of the office worker in today's business environment. It is designed to teach students production skills for today's office environment using word processing software as well as develop skills for handling business procedures. (CSU)

BUS 167 1.0 UNIT

MACHINE CALCULATION

Term Hours: 18 Lec, 18 Lab

Letter Grade or Credit/No Credit

Recommended Preparation: MATH 070.

This course develops skills required for rapid and accurate operation of calculating machines and expand and refine business math skills. (CSU)

BUS 169 2.0 UNITS

RECORDS MANAGEMENT

RECORDS MANAGEMENT

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BUS 220 4.0 UNITS

PRINCIPLES OF MANAGERIAL ACCOUNTING

Term Hours: 72 Lec, 18 Lab

Letter Grade only

Prerequisite: BUS 210 or equivalent with grade of "C" or higher.

Covers how managers use accounting information in decision-making, planning, directing operations, and controlling. Focuses on cost terms and concepts, cost behavior, cost structure, and cost-volume-profit analysis. Examines profit planning, standard costs, operations and capital budgeting, cost control, and accounting for costs in manufacturing organizations. (CSU, UC)

BUS 260 3.0 UNITS

BUSINESS COMMUNICATIONS

Term Hours: 54 Lec, 0 Lab

Letter Grade only

CDEV 107 3.0 UNITS

TEACHING IN A DIVERSE SOCIETY

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Examination of the development of social identities in diverse societies including theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling. (CSU)

CDEV 120 2.0 UNITS

LANGUAGE AND LITERATURE FOR YOUNG CHILDREN

Term Hours: 36 Lec, 0 Lab

Letter Grade only

CDEV 200 3.0 UNITS

PRACTICUM FIELD EXPERIENCE

Term Hours: 36 Lec, 180 Lab

Letter Grade only

Prerequisites: CDEV 100; CDEV 103, CDEV/PSY 104; CDEV 105; CDEV

CIS 100 1.0 UNIT
COMPUTER LITERACY

Term Hours: 18 Lec, 0 Lab

Letter Grade or Credit/No Credit

A course designed for students with little or no experience with computers. The course includes a review of computer terminology, system components, and software applications typically used on a microcomputer system. In a hands-on environment, the student will learn basic operating system and user interface commands, basic features in a word processing program, and basic concepts for

CIS 124 1.0 UNIT

EXCEL I

Term Hours: 18 Lec, 0 Lab

Letter Grade or Credit/No Credit

A beginning course in the creation and use of spreadsheet applica-

DSPS 022 3.0 UNITS

MATH FOR STUDENTS WITH LEARNING DIFFERENCES

Term Hours: 54 Lec, 0 Lab

Letter Grade or Credit/No Credit

Recommended Preparation: DSPS 020.

This course will teach adults with Learning Differences to solve prob-

EDUC 240 3.0 UNITS

EWIR 135 4.0 UNITS

ELECTRICAL EQUIPMENT AND SPECIAL CONDITIONS

Term Hours: 36 Lec, 108 Lab

Letter Grade only

Recommended Preparation: EWIR 125.

This course provides the electrical worker with instruction in basic lighting and NEC requirements for lighting fixtures for indoor and outdoor use; an introduction to motor basics, calculations, transformers, instruments for testing, wiring, protection, maintenance, and troubleshooting for various types of motors and motor controls; introduction to heating, ventilation, and air-conditioning (HVAC) systems, system maintenance equipment, and safety requirements for varied locations; principles of combustion, hazardous materials and their reactions in varied locations; and the use of safety equipment. (Nontransferable, AA/AS degree only)

EWIR 150 3.0 UNITS

SOLAR ENERGY SYSTEMS

Term Hours: 36 Lec, 54 Lab

Letter Grade only

This course provides students with instruction in the principles of photovoltaic technology. Instruction includes an overview of photovoltaics, electric principles, the solar resource, and electric load analysis, photovoltaic modules, batteries, and inverters; photovoltaic system wiring and sizing; utility-interactive systems, integrating photovoltaics into buildings and system applications; installation, maintenance and troubleshooting; and safety. (Non-transferable, AA/AS degree only)

ELEC_RO IC

ELTR 120 4.0 UNITS

ELECTRONIC DEVICES

Term Hours: 54 Lec, 54 Lab

Letter Grade only

Recommended Preparation: MATH 080

An introduction to the study of electricity and electronics. Basic theories of the physical phenomena involved in circuitry-related devices and measurement instruments. (CSU)

ELTR 140 4.0 UNITS

ELECTRONIC CIRCUITS AND SEMICONDUCTORS

Term Hours: 54 Lec, 54 Lab

Letter Grade only

Recommended Preparation: ELTR 120.

A continuation of ELTRN 120. Topics will include: semiconductor devices, amplifiers, and solid state components. (CSU)

ELTR 220 3.0 UNITS

DIGITAL INSTRUMENTATION MEASUREMENTS

Term Hours: 36 Lec, 54 Lab

Letter Grade only

Recommended Preparation: ELTR 140

Advanced concepts in electronics. Topics will include: additional de-

EMTP 235 6.5 UNITS

EMT PARAMEDIC FIELD I

Term Hours: 0 Lec, 351 Lab

Letter Grade only

Prerequisite(s): 1. Successful completion of EMTP 200, EMTP 210,

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ENGL 051 1.0 UNIT INDIVIDUALIZED WRITING SKILLS

Term Hours: 0 Lec, 36 Lab

Letter Grade or Credit/No Credit

Recommended Preparation: Eligibility for ENGL 093, ENGL 084, or higher by means of the ESL, the reading test, or holistic essay placement exam.

This is a course designed to provide supplemental work for students in regular writing classes or for independent study. A certified 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(s) requiring writing skills. The 36 required hours will be

ENGL 040 5.0 UNITS COMMUNICATION SKILLS FOR HEALTHCARE PROFESSIONALS I

Term Hours: 90 Lec, 0 Lab

Letter Grade only

Recommended Preparation: Completion of intermediate level of ESL, including ENGL 093, ENGL 074 and ENGL 064, or higher, or appropriate placement.

ENGL 040 is a communications and nursing career development course in an English-only environment. The class is designed for students of high-intermediate ability who are licensed nurses outside the U.S. and have been admitted to the Program for International Nurses in the IVC Nursing Division. (Nontransferable, nondegree applicable)

ENGL 041 (5.0 UNITS) COMMUNICATION SKILLS FOR HEALTHCARE PROFESSIONALS II

Term Hours: 90 Lec, 0 Lab

Letter Grade only

Recommended Preparation: Completion of intermediate level of ESL, including ENGL 093, 074 and 064, or higher, or appropriate placement.

ENGL 041 is the second part of the communication and nursing career development course in an English-only environment. The class is designed for students of high-intermediate English ability who are licensed nurses outside the U.S. and have been admitted to the Program for International Nurses in the IVC Nursing Division. (Non-transferable, nondegree applicable)

ENGL 223 3.0 UNITS
SURVEY OF WORLD LITERATURE

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Prerequisite: ENGL 101 with a grade of "C" or better.

Recommended Preparation: ENGL 102.

Study of selected literature of the Enlightenment, Romanticism, Naturalism and Realism, Symbolism and modern/contemporary schools. Emphasis is placed on a diversity of global cultures. (CSU, UC)

ENGL 224 3.0 UNITS
SURVEY OF ENGLISH LITERATURE

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Prerequisite: ENGL 101 with a grade of "C" or better.

Recommended Preparation: ENGL 102.

Close study of works of major English writers up to the end of the 18th century, with consideration of the more salient aspects of English literary history. (CSU, UC)

ENGL 225 3.0 UNITS
SURVEY OF ENGLISH LITERATURE

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Prerequisite: ENGL 101 with a grade of "C" or better.

Recommended Preparation: ENGL 102.

Close study of works of major English writers of the 19th and 20th centuries, with consideration of the more salient aspects of English literary history. May be taken before ENGL 224. (CSU, UC)

ENGL 226 3.0 UNITS
INTRODUCTION TO MYTHOLOGY

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Prerequisite: ENGL 101 with a grade of "C" or better.

Comparative themes and figures from various mythologies of the world. Interpretation of myths; the influence on art, culture, and history (Same as HUM 226) (CSU, UC)

ENGL 228 3.0 UNITS
INTRODUCTION TO THE BIBLE AS LITERATURE

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Prerequisite: ENGL 101 with a grade of "C" or better.

Recommended Preparation: ENGL 102.

A study of literature and history of the Bible. (CSU, UC)

ENGL 230 3.0 UNITS
INTRODUCTION TO FILM HISTORY AND CRITICISM

Term Hours: 36 Lec, 36 Lab

Letter Grade only

The origin and development of movies as an entertainment industry, as a technological medium, and as an art form. Key films from different historical periods will be examined for their technological and artistic contributions to the art of film making. (Same as HUM 230) (CSU, UC)

ENGL 240 3.0 UNITS
INTRODUCTION TO TECHNICAL AND REPORT WRITING

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ENGL 099 (formerly ENGL 100) or ENGL 101 or permission of instructor.

Practical experience in writing technical and report documents. (Same as HUM 240) (CSU, UC)

ESL 012 5.0 UNITS

SPEAKING AND LISTENING FOR ESL 2

Term Hours: 90 Lec, 0 Lab

Letter Grade only

Prerequisites: ESL 011 or ENGL 062 with a grade of "C" or higher or appropriate placement.

ESL 032 1.0 UNIT

VERB REVIEW 2

Term Hours: 18 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ESL 001 or ESL 002.

This course is designed to review and reinforce proper use of the simple present, present progressive, simple past, and past progressive verb tenses. It is a recommended supplement for students in Low Intermediate and Intermediate ESL courses. (Nontransferable, nondegree applicable)

ESL 033 1.0 UNIT

VERB REVIEW 3

Term Hours: 18 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ESL 003.

This course is designed to review and reinforce proper use of the present and past perfect, and the present and past perfect progressive verb tenses. It is a recommended supplement for students in Intermediate and High Intermediate ESL courses. (Nontransferable, nondegree applicable)

ESL 034 1.0 UNIT

VERB REVIEW 4

Term Hours: 18 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ESL 003 or ESL 004.

This course is designed to review and reinforce proper use of the modal verbs in English. It is a recommended supplement for students in Low Intermediate and Intermediate ESL courses. (Nontransferable, nondegree applicable)

ESL 035 1.0 UNIT

VERB REVIEW 5

Term Hours: 18 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ESL 003 or ESL 004.

This course is designed to review and reinforce the use of the passive voice both form and function. It is also aimed at developing students' ability to use reported speech. It is designed as a supplement for students in High-Intermediate and Advanced ESL courses, as well as students in the developmental English courses. (Nontransferable, nondegree applicable)

ESL 036 1.0 UNIT

VERB REVIEW 6

Term Hours: 18 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ESL 004.

This course is designed to review and reinforce proper use of advanced modal verbs in English. It is a recommended supplement for students in High-Intermediate and Advanced ESL courses, as well as for students in developmental English courses. (Nontransferable, nondegree applicable)

ESL 037 1.0 UNIT

VERB REVIEW 7

Term Hours: 18 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ESL 004.

This course is designed to review and reinforce proper use of verb tenses in English. It is a recommended supplement for students in Advanced Intermediate and Advanced ESL courses. (Nontransferable, nondegree applicable)

ESL 038 1.0 UNIT

Term Hours: 18 Lec, 0 Lab

Letter Grade only

ESL 044 1.0 UNIT
CONVERSATION 4

Term Hours: 18 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ESL 004 or ESL 005.

ESL 044 is a short-term intensive course designed for students to participate in a variety of authentic exchanges in academic and workplace environments. Topics will include using interview skills and reporting on daily responsibilities, and giving short, informative speeches. (Nontransferable, nondegree applicable)

ESL 045 1.0 UNIT
CONVERSATION 5

Term Hours: 18 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ESL 004 or ESL 005.

ESL 045 is a short-term intensive course designed for students to participate in a variety of authentic exchanges in academic and workplace environments. Topics include paraphrasing and summarizing, expansion of ideas, and supporting arguments. (Nontransferable, nondegree applicable)

ESL 051 1.0 UNIT
PRONUNCIATION 1

Term Hours: 18 Lec, 0 Lab

Letter Grade only

Recommended Companion Courses: ESL 001, ESL 011.

ESL 051 is a short-term intensive pronunciation course designed for students whose main interest is to focus and improve on the articulation of English vowels and consonants, and on the development of basic English patterns of stress and intonation. (Nontransferable, nondegree applicable)

ESL 052 1.0 UNIT
PRONUNCIATION 2

Term Hours: 18 Lec, 0 Lab

Letter Grade only

Recommended Companion Courses: ESL 002, ESL 012.

ESL 052 is a short-term intensive pronunciation course designed for students whose main interest is to focus on clearer articulation of English vowels and consonants, and on the increased development of basic English patterns of stress, intonation, and rhythm. (Nontransferable, nondegree applicable)

ESL 053 1.0 UNIT
PRONUNCIATION 3

Term Hours: 18 Lec, 0 Lab

Letter Grade only

Recommended Companion Courses: ESL 003, ESL 013.

ESL is a short-term intensive pronunciation course designed for students whose main interest is to focus on clearer articulation of English vowels and consonants, and on increased control of the stress, intonation, and rhythm of English. (Nontransferable, nondegree applicable)

ESL 054 1.0 UNIT
PRONUNCIATION 4

Term Hours: 18 Lec, 0 Lab

Letter Grade only

Recommended Companion Courses: ESL 004, ESL 014.

ESL 054 is a short-term intensive pronunciation course designed for students whose main interest is to focus on improved clarity of speech, and on increased control of the stress, intonation, and the

ESL 063 1.0 UNIT

VOCABULARY 4

Term Hours: 18 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ESL 002.

ESL 063 provides students additional review, practice, and instruction in basic vocabulary. Topics to be covered include: work, transportation and travel, recreation and entertainment, and nature. Focus will be on written and communicative activities designed to increase fluency for learners at the low-intermediate level of English. (Nontransferable, nondegree applicable)

ESL 064 1.0 UNIT

VOCABULARY 5

Term Hours: 18 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ESL 002.

ESL 064 provides intermediate level students with review, practice, and instruction in basic vocabulary. Topics to be covered include: work, transportation and travel, recreation and entertainment, and nature. Focus will be on written and communicative activities designed to increase fluency for learners at the low-intermediate level of English. (Nontransferable, nondegree applicable)

ESL 065 1.0 UNIT

VOCABULARY 5

Term Hours: 18 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ESL 002.

FIRE 101 3.0 UNITS
FIRE PREVENTION TECHNOLOGY

Term Hours: 54 Lec, 0 Lab

Letter Grade only

This course provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationship of fire prevention with fire safety education, detection and suppression systems. This is one of six CORE courses required for an associate degree in Fire Technology. (CSU)

FIRE 102 3.0 UNITS
FIRE PROTECTION EQUIPMENT AND SYSTEMS

Term Hours: 54 Lec, 0 Lab

Letter Grade only

This course provides information relating to the features of design and operation of fire detection and alarm systems, heat and smoke systems, special protection and sprinkler systems, water supply for fire protection and portable fire extinguishers. This is one of six CORE courses required for an associate degree in Fire Technology. (CSU)

FIRE 103 3.0 UNITS
BUILDING CONSTRUCTION FOR FIRE PROTECTION

Term Hours: 54 Lec, 0 Lab

Letter Grade only

This course is the study of the components of building that relates to fire safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at fires. The development and evolution of building and fire codes will be studied in relationship to past fires in residential, commercial, and industrial occupancies. This is one of six CORE courses required for an associate degree in Fire Technology. (CSU)

FIRE 104 3.0 UNITS
FIRE BEHAVIOR AND COMBUSTION

Term Hours: 54 Lec, 0 Lab

Letter Grade only

This course provides theory and fundamentals of how and why 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 will be covered. This is one of six CORE courses required for an associate degree in Fire Technology. (CSU)

FIRE 105 7.5 UNITS
EMERGENCY MEDICAL TECHNICIAN I

Term Hours: 117 Lec, 54 Lab

Letter Grade only

A course designed for individuals who will come in contact with victims of illness or injury primarily in an emergency, pre-hospital environment. This course would be of value to all emergency service personnel, including ambulance personnel, law enforcement, fire services, hospital emergency department, and other rescue personnel. Topics will include roles and responsibilities, evaluation and treatment of illness and injury. Procedures for dealing with life threatening emergencies are presented. The student will be able to gain a functional understanding of assessment-based approaches

to patient care as well as the interventions added to the EMT I scope of practice. Hazardous Material training and semi-automatic debridement training are included. This course is approved by the Imperial County Emergency Medical Services Agency and is within the training guidelines of California Code of Regulations and the California Fire Service Training and Education Systems (CFSTES). Successful completion will result in eligibility for certification as an EMT I and EMT D. Successful completion will also result in a Training Institute (CSTI) through the Office of Emergency Services (OES). This is one of six courses required for an associate degree in Fire Technology and one of six courses toward eligibility for a Fire Fighter I certificate. (Same as EMT 105) (CSU)

FIRE 106 1.0 UNIT
FIRST AID/CPR PUBLIC SAFETY FIRST RESPONDER

Term Hours: 18 Lec, 5 Lab

Letter Grade only

A course for individuals who must provide first aid and/or CPR prior to the arrival/availability of pre-hospital care personnel with advanced training and certification/licensure. This course is primarily for fire department and law enforcement personnel. It satisfies the minimum requirements for this type of personnel as outlined in the California Code of Regulations, approved by the California Emergency Medical Services Authority. Upon successful completion of this course, the participant will receive a completion certificate from IVC and a CPR course completion card through the American Heart Association. (CSU)

FIRE 107 2.0 UNITS
EMERGENCY MEDICAL TECHNICIAN I REFRESHER

Term Hours: 36 Lec, 0 Lab

Letter Grade only

Prerequisites: Current EMT I certification or have possessed an EMT I certification within the past 4 years, and as mandated by the Imperial County EMS Agency, California Title 22, and/or CoAEMSP National Education Standards.

This course is designed to fulfill the California EMT I refresher course requirements and will review basic life support topics and procedures to include cardiopulmonary resuscitation training. Topics specific to Imperial County will be presented, as well as changes in policies and procedures with updated and new materials. Successful completion of this course will satisfy continuing education requirements for the EMT I and will enable the EMT I to be eligible for recertification in the state of California. This course is approved by the Imperial County Emergency Medical Services Agency and is within the training guidelines of the California Code of Regulations and the California Fire Service Training and Education Systems (CFSTES). (Same as EMT 107) (CSU)

FIRE 108 3.0 UNITS
FIRE AND EMERGENCY SERVICES SAFETY/SURVIVAL

Term Hours: 54 Lec, 0 Lab

Letter Grade only

FIRE 109 2.0 UNITS
HAZARDOUS MATERIALS FOR FIRST RESPONDERS

Term Hours: 36 Lec, 0 Lab

Letter Grade only

Recommended Preparation: As recommended or mandated by State Fire Training Course Information & Required Materials Manual, California Department of Forestry & Fire Protection, May 2008.

This course is designed for fire department personnel who may respond to releases or potential releases of hazardous materials as part of the initial response to the site for the purpose of protecting nearby persons, property, or environment from the effects of the release. This course will provide the hazmat emergency responder with the processes used in decontamination and the methods to limit the spread of hazardous materials contamination in a safe and competent manner. (CSU)

FIRE 117 1.0 UNIT
AUTO EXTRICATION

Term Hours: 18 Lec, 0 Lab

Letter Grade only

This course provides students with the information and skills necessary to operate within the procedures and systems utilized during an automobile extrication. Subjects covered include: auto extrication sizeup; types of incidents; safety precautions; ICS for auto extrication; types of hand and power tools; removing 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 118 0.5 UNITS
OIL FIRE CONTROL SCHOOL I

Term Hours: 4 Lec, 14 Lab

Letter Grade only

This course provides students with general information, techniques and strategies in dealing with flammable liquids and gases. Students are provided with particular exercises in controlling and then in extinguishing flammable liquid and gas fires at selected burn sites under controlled supervision. Maximum credit two units. (CSU)

FIRE 121 1.0 UNIT
ICS 200 BASIC INCIDENT COMMAND

Term Hours: 18 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ENGL 101.

This course is designed for all emergency response personnel (fire, police, and EMS). This course consists of the Incident Command System (ICS) modules 2-6 and meets the training needs of wildland fire personnel and other emergency response personnel. Participants are introduced to the principles associated with the ICS and Standardized Emergency Management System (SEMS). Topics provide an introduction to and an overview of the ICS. The topics also introduce the participant to the interagency incident management system being adopted by the fire service and emergency organizations across the country. (CSU)

FIRE 122 0.5 UNITS
CONFINED SPACE AWARENESS

Term Hours: 9 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ENGL 101.

This course is designed to introduce fire service personnel in the recognition of confined spaces and how to enter them properly, and the proper use of safety procedures within these areas. Students are introduced to the hazards, equipment, and operational positions of safe and legal confined space entry. This course also includes how following CAL/OSHA regulations are required in regards to confined

FIRE 220 2.5 UNITS
FIRE APPARATUS 1A DRIVER

Term Hours: 45 Lec, 0 Lab

Letter Grade only

Recommended Preparation: Fire Fighting I training recommended.

Prerequisite: CA Class "B" firefighter restricted license minimum.

This course provides the student with information on driver responsibilities, recognized standards, and related laws for the apparatus. Topics include basic inspections, documentation, maintenance, and troubleshooting the apparatus, and techniques on driving and positioning the apparatus. Each student also has the opportunity to increase his or her driving skills during simulated driving conditions. (CSU)

FIRE 221 2.5 UNITS
FIRE APPARATUS 1B PUMP

Term Hours: 45 Lec, 0 Lab

Letter Grade only

Recommended Preparation: Fire Fighting I training recommended.

Prerequisites: CA Class "B" firefighting restricted license minimum, and FIRE 220 with a grade of "C" or better.

This course provides the student with information on pump construction and theory of pump operations. Topics include: methods of performing basic hydraulics and techniques on basic inspections, documentation, maintenance, and troubleshooting the pumps. Each student also has the opportunity to increase his or her pumping skills during simulated pumping conditions. (CSU)

FIRE 222 2.5 UNITS
FIRE INVESTIGATION 1A

Term Hours: 45 Lec, 0 Lab

Letter Grade only

An introduction into fire investigation. This intense course will include principles of determining cause, recognizing and preserving evidence, interviewing witnesses and suspects, arrests, and detention procedures, point of origin determination, motives of the fire setter, and report writing. Successful completion will satisfy one of the State Fire Marshall's training requirements for certification as a Fire Investigator I.

FIRE 223 2.5 UNITS
FIRE INVESTIGATION 1B

Term Hours: 45 Lec, 0 Lab

Letter Grade only

Prerequisite: FIRE 222 with a grade of "C" or better.

This course provides the participant with information to achieve a deeper understanding of fire investigation. The course builds on Fire Investigation 1A and adds topics of discussion including the juvenile fire setter, in depth report writing, evidence collection and preservation procedures. Successful completion will satisfy one of the State Fire Marshall's training requirements for certification as a Fire Investigator I. (CSU)

FIRE 224 2.5 UNITS
FIRE MANAGEMENT 1

Term Hours: 45 Lec, 0 Lab

Letter Grade only

A course designed for the transition from Firefighter to Fire Officer by presenting the skills and responsibilities required of the first level supervisors. This course provides an overview of supervision, management, and leadership concepts, practices and theories. The topics emphasize basic supervisory, management, and leadership skills required in decision making, delegating, personnel motivation, communication, time management, resources management, record

FIRE 228 2.5 UNITS
FIRE INSTRUCTOR 1B

Term Hours: 45 Lec, 0 Lab

Letter Grade only

Prerequisite: FIRE 227 with a grade of "C" or better.

This course is designated as a continuation of Fire Instructor 1A. The course will continue to present various methods and techniques for training/teaching utilizing the latest concepts in vocational educa-

FREN 110 5.0 UNITS
ELEMENTARY FRENCH II

GEOLOGY

GEOL 100 4.0 UNITS

GENERAL GEOLOGY

Term Hours: 54 Lec, 54 Lab

Letter Grade only

This course is designed as an introduction to Earth's physical processes, structures and composition, and includes coverage of Earth's internal processes, such as those that cause earthquakes, volcanoes and mountain building; surface processes, such as rivers and waves, wind, glaciers and the landforms that result from these processes; the nature and origin of rocks and minerals that form the Earth's crust; and structures related to folding and faulting, will be studied. (CSU, UC)

GEOL 110 3.0 UNITS

EARTH AND SPACE SCIENCE

Term Hours: 54 Lec, 0 Lab

Letter Grade only

This introductory earth and space science course covers basic principles from the fields of geology, astronomy, oceanography, and meteorology. Minerals and rocks, natural processes acting at the earth's surface and within the Earth, plate tectonics, geologic time and dating, composition and motions of the Earth, solar system, phases of the moon, origin and life cycles of stars, gabbbcNgasabbccNgaxOXNiOXNNyOWXNbXSWbbNdNfOW'SXXtYN,OSWbcNoOXNrOSXNIbTdb,SVFSfUshOYNe

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HIST 111 3.0 UNITS
MODERN WESTERN CIVILIZATION

Term Hours: 54 Lec, 0 Lab

Letter Grade only

This course is a study of the major developments in Western civilization from the 17th century to the present. Emphasis will be placed on

HIST 220 3.0 UNITS
WOMEN IN AMERICAN HISTORY

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: Eligible for placement in college Eng-

HUM 262 3.0 UNITS

INTRODUCTION TO CHICANO/A STUDIES

Term Hours: 54 Lec, 0 Lab

Letter Grade or Credit/No Credit

LEGL 121 3.0 UNITS

LEGAL RESEARCH

Term Hours: 54 Lec, 0 Lab

Letter Grade or Credit/No Credit

Recommended Preparation: ENGL 101, reading and Composition. In addition, students are expected to have a basic familiarity with computer terms, to be able to use applications such as word processing, spreadsheets, and email, and to do online research. These skills can be learned in CIS 100.

This course provides an introduction to legal research and writing, including a comprehensive working knowledge and understanding of legal research materials and tools. The course covers the traditional and basic methods of legal research, sources of applicable statutory law and case law information, including use citations and computerized legal search systems. Students will learn to develop research strategies and to write legal memoranda and briefs. (CSU)

LEGL 125 3.0 UNITS

REAL ESTATE LAW FOR LEGAL ASSISTANTS

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ENGL 101, Reading and Composition. In addition, students are expected to have a basic familiarity with computer terms, to be able to use applications such as word processing, spreadsheets, and email, and to do online research. These skills can be learned in CIS 100 Computer Literacy.

This course provides 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)

LEGL 126 3.0 UNITS

WILLS, TRUSTS, PROBATE, AND ESTATE ADMINISTRATION

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ENGL 101, Reading and Composition. In addition, students are expected to have a basic familiarity with computer terms, to be able to use applications such as word processing, spreadsheets, and email, and to do online research. These skills can be learned in CIS 100 Computer Literacy.

Course covers definition of technical terms used in probate, trusts and estate administration, sources of law relating to wills, trusts, and estate administration, types and forms of property and property ownership, the specific duties of a probate legal assistant, rules and general patterns of succession under the UPC, the effect of prior transactions on interstate succession, process for determining validity of wills and the basic requirements of a valid will. various types of wills authorized by law, papers and other evidences that are components of a will, preparation and execution of a formal attested will, revocation of wills, disposition of property under will, methods for settling a decedent's estate, informal estate proceedings under the UPC, specific tasks performed by a legal assistant in formal estate administration, procedures for payment of decedent's debts and claims, special proceedings in probate, preparation and filing of tax returns, procedural requirements of formal accountings, role of legal assistant in the distribution of testate estates, nature and administration of trusts, guardianships, and conservatorships, and the professional responsibilities of a probate legal assistant. (CSU)

LEGL 127 3.0 UNITS

FAMILY LAW

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ENGL 101, Reading and Composition. In addition, students are expected to have basic familiarity with computer terms, to be able to use applications such as word processing, spreadsheets, and email, and to do online research. These skills can be learned in CIS 100 Computer Literacy.

This course covers elements of family law, including elements of marriage under the law, relationships that can exist when one party enters into an invalid marriage, antenuptial agreements, dissolution of marriage, child-support rights, division of community property in community and non-community property states, and the uniform child custody jurisdiction act. (CSU)

LEGL 128 3.0 UNITS

BANKRUPTCY

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: ENGL 101, Reading and Composition. In addition, students are expected to have a basic familiarity with computer terminal, to be able to use applications such as word processing, spreadsheets, and email, and to do online research. These skills can be learned in CIS 100 Computer Literacy.

LBRY 152 3.0 UNITS
LIBRARY TECHNICAL SERVICES

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: Eligibility for ENGL 098 and ENGL 088 and completion of LBRY 151.

An introduction to the various tasks in the technical services area of a library, including ordering, receiving, processing and conservation of library materials, and the impact of computers and networking on technical services activities and procedures, and a brief overview of cataloging and classification of library materials. (CSU)

LBRY 153 3.0 UNITS
LIBRARY PUBLIC SERVICES

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: Eligibility for ENGL 098 and ENGL 088 and completion of LBRY 151.

This course covers the role and philosophy of public services in a library environment. Topics will include the public service function in different types of libraries, computers and the library, library instruction, interlibrary loan, circulation services, reserve services, special collections, serials services, government information, public relations, and security issues. (CSU)

LBRY 154 3.0 UNITS
INTRODUCTION TO MEDIA SERVICES

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: Eligibility for ENGL 98 and ENGL 088 and completion of LBRY 151.

This course will cover the provision and utilization of media services in the library setting. Included will be the history and philosophy of media services, operation of various types of media equipment, scheduling, tracking, troubleshooting and the minor repair of media equipment. Acquisition of rental material will also be covered. (CSU)

LBRY 155 3.0 UNITS
INTRODUCTION TO CATALOGING AND CLASSIFICATION

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: LBRY 151 and LBRY 152; eligibility for ENGL 098 and ENGL 088; and, CIS 100 or familiarity with the use of a personal computer.

An introduction to the theory and application of basic principles of International Standard Bibliographic Description (ISBD), subject cataloging, and classification through adherence to standards used in most libraries. Using universally accepted cataloging and classification tools, students will learn how to organize materials in various formats and by subject. Machine-readable catalog record (MARC) formats are used in the course for creating, editing, inputting, and producing computerized bibliographic records. (CSU)

LBRY 156 3.0 UNITS
INFORMATION AND REFERENCE SERVICES

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: Eligibility for ENGL 098 and ENGL 088 and completion of LBRY 151.

This course will cover the range of information and reference services offered in libraries. Topics will include the reference interview, bibliographic control, organization of information, search strategies, electronic reference services, trends in reference, library instruction, staff training and development, evaluation of reference services, organization and management of reference and information services, various types of reference materials and a philosophy of service. (CSU)

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Prerequisites for Mathematics Classes

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MATH 040 1.0 UNIT
MATH STUDY SKILLS

Term Hours: 18 Lec, 0 Lab

Credit/No Credit only

Recommended Preparation: Concurrent enrollment in a math course.

A course designed to help students overcome obstacles which affect success in mathematics courses. Topics include: reducing math anxiety, improving math test taking skills, refining listening and note taking skills. Offered Credit/No Credit only. (Nontransferable, nondegree applicable)

MATH 060 1.0 UNIT
MATH LAB

Term Hours: 0 Lec, 36 Lab

Credit/No Credit only

Concurrent enrollment in MATH 070, MATH 080, or MATH 090 required. A laboratory where students work on material that accompanies the remedial mathematics course in which they are enrolled. Involves individualized instruction and use of media and computers. This course is offered on a Credit/No Credit basis. The 36 required hours must be undertaken in the Math Lab. Maximum credit 4 units. (Nontransferable, nondegree applicable)

MATH 070 3.0 UNITS

BASIC MATHEMATICS

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Brief review of arithmetic including fractions, decimals, percent, square root, and an introduction to algebra. (Nontransferable, non-degree applicable)

MATH 080 3.0 UNITS

BEGINNING ALGEBRA

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Prerequisite: MATH 070 with a grade of "C" or higher, or appropriate placement.

Topics covered include the real number system, variable expressions, solving equations, polynomials, factoring rational expressions, graphs and linear equations, systems of linear equations, inequalities

MATH 122 3.0 UNITS
FINITE MATHEMATICS

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Prerequisite: MATH 090 with a grade of "C" or better.

Finite mathematics is a course designed to introduce interesting, relevant, and realistic applications for a variety of fields including, business and economics. This course incorporates the use of technology to allow, increased visualization and a better understanding of concepts. It satisfies the mathematics general education requirement and is transferable. It is an excellent course for those students who will not need any other mathematics classes for their degree. Topics included in this course are linear processes, matrices, graph theory, probability, statistics, game theory, and finance. The mathematics of finance involves compound interest, present and future values, annuities, etc. (CSU, UC)

MATH 130 3.0 UNITS
PROGRAMMING IN FORTRAN

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended preparation: MATH 090 with a grade of "C" or better.

A practical course covering the fundamentals of Fortran Programming Language as adapted to a variety of different applications. (CSU, UC)

MATH 140 3.0 UNITS
TRIGONOMETRY

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Prerequisite: MATH 090 with a grade of "C" or better.

Right angle trigonometry and applications, unit circle trigonometry, graphs of trigonometric functions, inverse trigonometric functions, trigonometric identities, solving triangles using the Laws of Sines and Cosines, and polar coordinates. (CSU)

MATH 150 4.0 UNITS
COLLEGE ALGEBRA

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Prerequisite: MATH 090 with a grade of "C" or better.

A continuation of the study of algebra. Attention will be paid to polynomial and rational functions, Exponential and Logarithmic functions, and

Prerequisite: MATH 090 with a grade of "C" or better.
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MUS 156 1.0 UNIT
COLLEGE COMMUNITY CHORUS

MUS 180 2.0 UNITS
MIDI COMPOSITION

Term Hours: 18 Lec, 54 Lab

Letter Grade only

Recommended Preparation: MUS 100 or MUS 120.

A study of computer hardware, sequencing software, and peripheral devices as they relate to composing music. Topics include: fundamentals of computers, synthesizer operations, MIDI sequencing, music notation, and internet resources for musicians. Elementary piano skills and basic theory will also be taught so that each student can employ the elements of music composition in a hands on interactive way. Maximum credit four units. (CSU)

MUS 182 2.0 UNITS
INTRODUCTION TO RECORDING TECHNIQUES

Term Hours: 36 Lec, 18 Lab

Letter Grade only

This course is a study in the art of digital audio recording and how to record in the IVC Digital Recording Studio. The curriculum will cover the signal flow through the mixing console as it applies to recording digital audio workstations and techniques of application, signal processing, digital recording operation and the use of digital audio/sequencing software. (CSU)

MUS 184 2.0 UNITS
ADVANCED RECORDING TECHNIQUES

Term Hours: 18 Lec, 36 Lab

Letter Grade only

Prerequisites: MUS 182.

This course is a continuation in the study of digital audio recording and how to make a professional sounding compact disk using the IVC Digital Recording Studio. The curriculum will cover alleviating basic problems in the recording process, console automation, SMPTE and MIDI synchronization, the fundamentals involved in a mix-down and the skills for planning and executing a recording session. (CSU)

MUS 200 3.0 UNITS
HISTORY AND LITERATURE OF MUSIC I

Term Hours: 54 Lec, 0 Lab

Letter Grade only

The historical development of music with a study of various types of music from stylistic periods as a medium of cultural development. Intended as a background toward further studies in music for the music major and persons interested in a thorough background for enjoying music. (CSU, UC)

MUS 202 3.0 UNITS
HISTORY AND LITERATURE OF MUSIC II

Term Hours: 54 Lec, 0 Lab

Letter Grade or Credit/No Credit

A continuation of MUS 200. (CSU, UC)

MUS 210 2.0 UNITS
INTERMEDIATE MUSICIANSHIP I

Term Hours: 36 Lec, 0 Lab

Letter Grade only

A continuation of MUS 110 and MUS 112 to increase skills in sight-singing, ear-training, and keyboard harmony. (CSU, UC)

MUS 212 2.0 UNITS
INTERMEDIATE MUSICIANSHIP II

Term Hours: 36 Lec, 0 Lab

Letter Grade only

A continuation of MUS 210. (CSU, UC)

MUS 220 3.0 UNITS
INTERMEDIATE HARMONY I

Term Hours: 54 Lec, 0 Lab

Letter Grade only

A comprehensive study of the theory of music to include skills and creative er

MUS 220 3.0 UNITS
INTERMEDIATE HARMONY II

Term Hours: 54 Lec, 0 Lab

Letter Grade only

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NURS 089 1.0 UNIT

INDIVIDUAL STUDIES: NURSING ASSOCIATE DEGREE

Term Hours: 0 Lec, 54 Lab

Credit/No Credit only

Prerequisite: Admission to the Nursing Program.

This course is designed to facilitate the learning of nursing knowledge, skills, and concepts through individualized, computer enhanced and mediated instructions. It is open to students in the Nursing Program and recent graduates from the Nursing Program who seek additional NCLEX-RN preparation. Maximum credit six units. (Nontransferable, nondegree applicable)

NURS 090 1.0 UNIT

NURSING REENTRY SKILLS LABORATORY I

Term Hours: 0 Lec, 54 Lab

Credit/No Credit only

Prerequisite: Successful completion of First Semester Nursing Level Skills and Clinical Courses

Corequisite: Enrollment in appropriate level nursing theory course. This course builds on theory, skills and clinical applications learned in previous semester(s). Tactile skills essential to safe nursing practice will be demonstrated in the nursing skills laboratory. Students will have the opportunity for supervised and individual practice followed by a skills check by an instructor. A competency skills exam will be administered prior to completion of the course to assure that the student has met conditions of reentry into the appropriate nursing course(s). This course is intended for students who have successfully passed a nursing skills and clinical course, but earned a

below passing score in a clinical skills lab. This course is intended for students who have successfully passed a nursing skills and clinical course, but earned a

NURS 110 4.5 UNITS
NURSING PROCESS I

Term Hours: 81 Lec, 0 Lab

Letter Grade only

Prerequisite(s): Demonstration of Math Competency; Demonstration of English Competency; English 101; Psychology 101; BIOL 200 and 202 OR BIOL 204 and 206; BIOL 220 with grades of "C" or better and admission to the Nursing program.

Corequisite(s): NURS 100, NURS 111; NURS 112; NURS 116; and, SOC 101 OR ANTH 102.

This course is designed as the introductory course in the nursing program and incorporates previous science, psychology, and communication theory. Theoretical concepts basic to the provision of safe nursing practice are introduced. The Scope of Practice of the Registered Nurse and other members of the health care team are examined. Components of the nursing process are reviewed. Through utilization of developmental theories (primarily Erikson) and the Roy Adaptation Model, this course focuses on the nursing role as communicator, provider of care, and client teacher for individuals. Concepts of the nursing process are reviewed.

Prerequisites: Demonstration of Math Competency; Demonstration of English Competency; English 101; Psychology 101; BIOL 200 and 202 OR BIOL 204 and 206; BIOL 220 with grades of "C" or better and admission to the Nursing program.

NURS 125 8.5 UNITS
NURSING PROCESS AND APPLICATION II

Term Hours: 81 Lec, 216 Lab

Letter Grade only

Prerequisites: NURS 110, NURS 111, NURS 112, NURS 114, SOC 1 or ANTH 2.

Corequisites: NURS 121.

This course is designed to integrate previous science and nursing course theory. This course provides theoretical perspective, science-based knowledge and principles needed by students to guide their application of the nursing process and choice of nursing interventions for individuals with common physiological alterations. Professional, legal and ethical issues are explored. Through utilization of development theories (primarily Erickson) and the Roy Adaptation Model, this course focuses on the nursing role as communicator, provider of care, and client teacher for individuals experiencing adaptation problems across the lifespan in the physiologic mode, psychologic mode, and selected adaptation problems for persons with common and/or chronic medical and/or surgical conditions related to surgery, respiratory system, reproductive system, and integumentary system. Maternal nursing care is presented, including antenatal, intrapartal and postpartum normal and abnormal adaptation. Normal and high-risk neonatal care are examined. Components of infusion therapy will also be discussed. Variations in nursing care for individuals of different socio-economic and cultural backgrounds will be considered. This course involves clinical application of both theoretical concepts taught in Nursing Process I and II and tactile skills taught in Nursing Skills Laboratory I and II. All aspects of the nursing process will be applied to client situations. Assessment testing fees will be required from student. (CSU) (Replaces NURS 120 and NURS 122)

NURS 126 3.0 UNITS
PHYSICAL ASSESSMENT SKILLS

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Class is limited to 15 students. This course is designed to delineate assessment 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)

NURS 204 3.0 UNITS
TRANSITION TO A.S. DEGREE NURSING

Term Hours: 45 Lec, 27 Lab

Letter Grade only

Prerequisite: Completion of advanced placement requirements which include an Active California LVN license and at least 6 months of work experience or permission of the instructor.

Co-requisite: BIOL 220 for ADN applicants or BIOL 092 for students seeking the 30-unit option.

Recommended Preparation: MATH 090 or higher.

This course facilitates the transition of advanced placement students (Licensed Vocational Nurses) into the associate degree nursing program. It provides an introduction to becoming a provider of care and a member of the discipline. The course provides an introduction to the nursing process and critical thinking as a process to learn and improve nursing practice. Emphasis is placed on the acquisition and utilization of the nursing process as a basis for care. Concepts related to program philosophy, conceptual framework, cultural sensitivity, growth and development, and role expectations are emphasized. Advanced assessment

NURS 224 2.0 UNITS

PSYCHIATRIC & MENTAL HEALTH NURSING

Term Hours: 36 Lec, 0 Lab

Letter Grade only

Prerequisites: NURS 121, NURS 125, NURS 123, all with a grade of "C" or better.

Corequisites: NURS 231, NURS 211, NURS 225.

This course provides the theoretical principles and science-based knowledge for the application of the nursing process to the care of clients with existing and potential pathophysiology and psychopathological adaptational problems relating to mental health and the individual's response to stressors and crises. Utilization of the nursing process via the Roy Adaption Model focuses the course on the role of a nurse as a communicator, care plan developer, provider of care, and educator for clients experiencing psychiatric or mental health problems. Throughout the course, cultural, social, age related, legal and ethical attitudes toward behaviors which deviate from accepted norms are discussed. The promotion of mental health through primary prevention, intervention in maladaptive disorders, and rehabilitation of chronic disorders is presented in con-

NURS 241 8.5 UNITS

NURSING PROCESS AND APPLICATION IV

Term Hours: 81 Lec, 216 Lab

Letter Grade only

Prerequisite(s): NURS 200, NURS 211, NURS 231 (formerly NURS 210 and NURS 212).

Corequisite(s): NURS 221, NURS 230.

This course is designed to integrate previous science and nursing course theory into an in-depth study of patients with increasingly complex health problems. Complex, multi-system, acute and emergency nursing theory is presented. This course provides theoretical perspective, science-based knowledge and principles needed by students to guide their application of the nursing process and choice of nursing interventions for individuals. Professional, legal, and ethical issues are explored. Through utilization of developmental theories (primarily Erikson) and the Roy Adaptation Model, this course focuses on nursing care for individuals experiencing adaptation problems across the lifespan in the physiologic mode, psychologic mode, and selected adaptation problems for persons with acute, complex medical and/or surgical conditions related to neurologic system adaptation, adaptation problems of special senses, complex cardiac, complex respiratory, complex endocrine, complex integumentary, and complex immunology/hematology

VN 116 2.5 UNITS

PATIENT CARE MANAGEMENT AND CRITICAL THINKING

Term Hours: 45 Lec, 0 Lab

Letter Grade only

Prerequisite: Admission to the nursing program or permission of the instructor. To be taken concurrently with VN 110 and 112.

An overview of the leadership and management process as it relates to management of patient care is presented. Clinical application is integrated into VN 130 and VN 132 and all subsequent nursing courses. (CSU)

VN 120 5.5 UNITS

THE MATERNITY CYCLE

Term Hours: 45 Lec, 162 Lab

Letter Grade only

Prerequisite: VN 122 or permission of instructor.

The nursing process is used to assess the needs of and devise a plan of care for the pregnant woman through the maternity cycle. Consideration is given to the physiological, psychosocial, cultural, and economic factors which have impact on the mother, infant, and the family as a whole. Concurrent classroom and clinical experience are provided. (CSU)

VN 122 5.5 UNITS

COMMON HEALTH PROBLEMS I

Term Hours: 45 Lec, 162 Lab

Letter Grade only

Prerequisite: VN 112 or permission of the instructor.

The first of three eight-week courses designed to provide a progressive and sequential study of common, well-defined health problems of the respiratory, reproductive, and special senses systems are presented. Transition from wellness to illness is emphasized. Concepts acquired to 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 experiences are provided. Assessment testing fees apply. (CSU)

VN 124 2.0 UNITS

PHARMACOLOGY II

Term Hours: 36 Lec, 0 Lab

Letter Grade only

Prerequisite: VN 112, VN 114 or permission of 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, actions, 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. (CSU)

VN 130 5.5 UNITS

COMMON HEALTH PROBLEMS II

Term Hours: 45 Lec, 162 Lab

Letter Grade only

Prerequisite: VN 120, VN 122, and VN 124, 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 is presented. Emphasis is placed on the immune, endocrine, hematological, cardiovascular, and musculoskeletal systems. (CSU)

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NUTR 100 3.0 UNITS **FOUNDATIONS OF NUTRITION**

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Scientific concept of nutrition relating to the function of nutrients in the basic life processes. Examines the major aspects of nutritional services within a health care facility, community or school food services program. The course includes child and adult nutrition application to basic food and food service programs. (CSU)

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PD 061 1.0 UNIT **SURVIVAL SKILLS FOR COLLEGE SUCCESS**

Term Hours: 18 Lec, 0 Lab

Credit/No Credit only

A course designed to assist students in the acquisition of techniques useful in the development of learning skills while providing information about college rules, regulations, services, and programs to promote student success. Topics include time management, study skills, note taking, learning styles, test taking, library skills, financial resources and money management, and educational program planning. (Nontransferable, AA/AS degree only.) (Formerly HREL 061)

PD 062 1.0 UNIT **PERSONAL AND SOCIAL DEVELOPMENT**

Term Hours: 18 Lec, 0 Lab

Credit/No Credit only

A course utilizing group dynamics, designed to encourage and develop insight into collegiate and modern problems of adjustment, the utilization of personal potential, and understanding of individual and group processes of development. (Nontransferable, AA/AS degree only)

PD 064 1.0 UNIT **ORIENTATION TO COLLEGE AND LIFE SKILLS**

Term Hours: 18 Lec, 0 Lab

Credit/No Credit only

A course designed to assist students with personal adjustments to college life, focusing on the development of resources for problem solving and dealing with crises. Topics include stress and coping, anxiety and depression, relationships, domestic violence, independence versus family responsibility, assertiveness, decision-making, sexuNkOSXbNiOSWpUesuNkOSXb'NctZOsc-KA ,NK'NUWcbNPOcNKOSXXbN;OaNKOSXVNHOSXVNHOSXVNAOSX

PHIL 106 3.0 UNITS

LOGIC

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Prerequisite: ENGL 101 with a grade of "C" or better.

An introduction to deductive and inductive logic. Attention focused upon the relationship between logic and language fallacies, and the use of logic in everyday life. (CSU, UC)

PHYSICAL EDUCATION

PE 100 2.0 UNITS

LIFETIME EXERCISE SCIENCE

Term Hours: 18 Lec, 36 Lab

Letter Grade only

This course is designed to emphasize a comprehensive understanding of the entire scope of the fitness for life process. The student will be equipped to assess their present fitness status; with the ability to write a personalized fitness program; and engage in that fitness program. The course will focus on five areas: cardiovascular

**PE 111 1.0 UNIT
AEROBICS STEP**

Term Hours: 0 Lec, 36 Lab

Letter Grade only

Step aerobics involves stepping up and down from a 4 to 12 inch bench, while performing various upper body movements to the accompaniment of music. This course is a simple introduction to basic steps, leading to simple patterns of step choreography. Offers cardiovascular conditioning and strength training. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

**PE 112 1.0 UNIT
BASKETBALL MEN**

Term Hours: 0 Lec, 36 Lab

Letter Grade only

An introduction to the fundamental skills and strategy of the game. Rules and class competition are included in the course. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

**PE 113 1.0 UNIT
BASKETBALL WOMEN**

Term Hours: 0 Lec, 36 Lab

Letter Grade only

Designed for women students interested in basketball. To offer basic and advanced fundamentals, team play, and strategy. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

**PE 114 2.0 UNITS
DANCE THEATRE**

Term Hours: 0 Lec, 72 Lab

Letter Grade only

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. Maximum credit eight units. (CSU, UC)

**PE 115 1.0 UNIT
DANCE JAZZ**

Term Hours: 0 Lec, 36 Lab

Letter Grade only

A study of syncopated movement. Maximum credit four units. (CSU, UC)

**PE 116 1.0 UNIT
DANCE MODERN**

Term Hours: 0 Lec, 36 Lab

Letter Grade only

Participation and instruction in rhythmic fundamentals, factors related to movement, movement fundamentals and dance skills, 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. Maximum credit four units. (CSU, UC)

**PE 117 1.0 UNIT
GOLF**

Term Hours: 0 Lec, 36 Lab

Letter Grade only

Offers training in the fundamentals of strokes with irons, woods, and putters; includes rules and etiquette of the game. Actual participation upon a golf course and the worthy use of leisure time and emphasized. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

**PE 118 1.0 UNIT
GOLF ADVANCED**

Term Hours: 0 Lec, 36 Lab

Letter Grade only

Recommended Preparation: PE 117.

Advanced training in strokes with irons, woods, and putters; includes rules of the game and emphasis on strategies and tournament play. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

**PE 119 1.0 UNIT
SELF DEFENSE**

Term Hours: 0 Lec, 36 Lab

Letter Grade only

A study of the art of self defense through boxing, wrestling and elements of martial arts as it relates to self defense. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

**PE 120 1.0 UNIT
SOFTBALL**

Term Hours: 0 Lec, 36 Lab

Letter Grade only

This course is designed to emphasize the fundamentals, knowledge of rules, coaching techniques, and basic knowledge of the game of softball. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

**PE 121 1.0 UNIT
SWIMMING**

Term Hours: 0 Lec, 36 Lab

Letter Grade only

This course is concerned with teaching the student to successfully execute the proper strokes for swimming. Skills, fundamentals, and safety knowledge are stressed from the beginner to the intermediate swimmer. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

**PE 122 2.0 UNITS
LIFEGUARD TRAINING**

Term Hours: 27 Lec, 27 Lab

Letter Grade or Credit/No Credit

Prerequisites: Demonstrated swimming proficiency.

This course provides the most current instruction in the American Red Cross (ARC) lifeguard training techniques, first aid and CPR skills required to prepare for a lifeguard position. Upon successful completion, a student will earn certifications in both ARC Lifeguard Training and CPR for the Professional Rescuer. (CSU) (UC credit limited. See a counselor.)

PE 123 2.0 UNITS

WATER SAFETY INSTRUCTOR TRAINING

Term Hours: 18 Lec, 36 Lab

Letter Grade or Credit/No Credit

Prerequisite: Demonstrated swimming proficiency.

This course provides the most current instruction in the American Red Cross (ARC) Water Safety Instructor (WSI) course. Upon successful completion, students earn ARC WSI certification. Maximum credit eight units. (CSU) (UC credit limited. See a counselor.)

PE 124 1.0 UNIT

TEAM SPORTS

Term Hours: 0 Lec, 36 Lab

Letter Grade only

The course is designed to stimulate the development of mental and physical alertness and poise, and to encourage regular participation in a variety of sports. Includes coeducational activities. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

PE 125 2.0 UNITS

SPORTS ACTIVITY ADVANCED

Term Hours: 18 Lec, 36 Lab

Letter Grade only

Recommended Preparation: Prior competitive background.

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. Maximum credit eight units. (CSU) (UC credit limited. See a counselor.)

PE 126 1.0 UNIT

TENNIS

Term Hours: 0 Lec, 36 Lab

Letter Grade only

Tennis offers training in the basic fundamentals of the game including history, rules, and etiquette. Social etiquette of the game is stressed along with the worthy use of leisure time. Tournament competition in singles and doubles is emphasized. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

PE 127 1.0 UNIT

TENNIS ADVANCED

Term Hours: 0 Lec, 36 Lab

Letter Grade only

Review and practice of forehand, backhand, serve and volley, overhead smash, and lob. Emphasis on court strategy and tactics for singles and doubles competition. (CSU) (UC credit limited. See a counselor.)

PE 128 1.0 UNIT

VOLLEYBALL

Term Hours: 0 Lec, 36 Lab

Letter Grade only

This class is designed to provide the student with the appropriate level of knowledge and skills involved with beginning volleyball. AbliWa

PE 141 1.0 UNIT
SOFTBALL WOMEN

Term Hours: 0 Lec, 36 Lab

Letter Grade only

This course is designed to emphasize the basic fundamentals, skills and rules of the game of women's softball. Maximum credit four units. (CSU) (UC credited limited. See a counselor.)

PE 142 1.0 UNIT
SWIMMING ADVANCED

Term Hours: 0 Lec, 36 Lab

Letter Grade or Credit/No Credit

PE 156 2.0 UNITS

INTERCOLLEGIATE CROSS COUNTRY AND PE

Term Hours: 0 Lec, 180 Lab

Letter Grade only

Prerequisites: Eligibility will be determined by conference rules and IVC guidelines for athletics.

Recommended Preparation: Prior cross country experience in an athletic realm.

This class is designed for the preparation and training involved with intercollegiate cross country competition. Maximum credit eight units. (CSU) (UC credit limited. See a counselor.)

PE 161 1.5 UNITS

PRE SEASON CONDITIONING FOR ATHLETES

Term Hours: 0 Lec, 54 Lab

Letter Grade only

This course is designed to prepare athletes for the competitive season. Emphasis will be placed on the development of speed, cardiovascular endurance, strength, and flexibility. A wide variety and combination of activities will be utilized to help athletes to work out with sport specific exercise programs. Maximum credit six units. (CSU) (UC credit limited. See a counselor.)

PE 162 1.5 UNITS

IN SEASON CONDITIONING FOR ATHLETES

Term Hours: 0 Lec, 54 Lab

Letter Grade only

This course is designed to help athletes maintain top physical condition throughout the competitive season. Emphasis will be placed on sustaining high levels of speed, cardiovascular endurance, strength, and flexibility. A wide variety and combination of activities will be utilized to help athletes avoid injuries and perform at optimum levels. Maximum credit six units. (CSU) (UC credit limited. See a counselor.)

PE 163 2.0 UNITS

SONG AND CHEER

Term Hours: 0 Lec, 72 Lab

Letter Grade only

Practice and performance class for songleaders and cheerleaders.

PE 203 2.0 UNITS
THEORY OF VOLLEYBALL

Term Hours: 36 Lec, 0 Lab

Letter Grade only

This course is recommended for physical education majors, recreation majors, and potential coaches. History of the game, rules, coaching techniques, offensive and defensive strategies, practice organization, and possible future trends in volleyball will be offered. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

PE 210 2.0 UNITS
INTRODUCTION TO PHYSICAL EDUCATION

Term Hours: 36 Lec, 0 Lab

Letter Grade only

History, philosophy and principles of physical education. Study of the aims and objectives of modern physical education with emphasis on the development of basic philosophy and background for professional development. (CSU, UC)

PE 211 3.0 UNITS
PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL

Term Hours: 54 Lec, 0 Lab

Letter Grade only

This course is designed to prepare the elementary school teacher to teach the whole child through physical education. (CSU)

PE 212 3.0 UNITS
THE HISTORY AND APPRECIATION OF DANCE

Term Hours: 54 Lec, 0 Lab

Letter Grade only

PHYS 202 5.0 UNITS

GENERAL PHYSICS II

Term Hours: 72 Lec, 54 Lab

Letter Grade only

Prerequisites: PHYS 200 or equivalent with a grade of "C" or better and MATH 194 with a grade of "C" or better or concurrent enrollment in MATH 194.

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)

PHYS 204 5.0 UNITS

GENERAL PHYSICS III

Term Hours: 72 Lec, 54 Lab

Letter Grade only

Prerequisites: PHYS 200 with a grade of "C" or better and MATH 194 with a grade of "C" or better or concurrent enrollment in MATH 194.

This course is designed to give an understanding of the fundamental principles of physics in the areas of waves, heat, light, relativity,

PSY 142 3.0 UNITS
PSYCHOLOGY OF ADJUSTMENT

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Recommended Preparation: Twelfth grade reading level strongly recommended.

A study of the development of effective behaviors. Focuses on individual behavior such as self-control, stress and emotional reactions; self-image, motivation, self-deception, lifespan development and the major psychological theories, which address these behaviors. Effective group behaviors including interpersonal relationships, marriage, sex, and society are also examined. (CSU)

PSY 144 3.0 UNITS
THE PSYCHOLOGY OF INTERPERSONAL RELATIONSHIPS

Term Hours: 54 Lec, 0 Lab

Letter Grade only

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PSY 220 3.0 UNITS

PRACTICUM

Term Hours: 18 Lec, 108 Lab

Letter Grade only

Recommended Preparation: PSY 101, ADS/PSY 120 or SOC 101.

A course designed to provide opportunity for the student in Psychology, Human Relations, or Alcohol and Drug Studies to gain experience under supervised conditions such as those involving mental health, child development, youth corrections, welfare, homes for the neglected, homes for the aged, youth recreation, rehabilitation centers for people with physical limitations, and educational settings. Students will be supervised by qualified instructional

PA I .

SPAN 100 5.0 UNITS

ELEMENTARY SPANISH I

Term Hours: 90 Lec, 0 Lab

Letter Grade or Credit/No Credit

Prerequisites: The student must be able to speak and read English. Not open to students with native ability in Spanish. (See SPAN 220). For additional oral practice, concurrent enrollment in SPAN 113 is recommended. The beginning Spanish course is based on a contrastive analysis between Spanish and English and is designed to develop in the English-speaking student rudimentary 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 which reflect the different frame of reference from which the native speaker of Spanish views the world. (CSU, UC)

SPAN 110 5.0 UNITS

ELEMENTARY SPANISH II

Term Hours: 90 Lec, 0 Lab

Letter Grade or Credit/No Credit

A continuation of SPAN 100 with the main emphasis on the imperfect, preterit, and present perfect forms for both regular and irregular verbs. (CSU, UC)

SPAN 113 2.5 UNITS

BEGINNING CONVERSATIONAL SPANISH I

Term Hours: 45 Lec, 0 Lab

Letter Grade or Credit/No Credit

A course designed to give the student a basic ability in everyday Spanish. The course will emphasize vocabulary building, conversational skills, listening and comprehension, and culture. (CSU)

SPAN 116 3.0 UNITS

SPANISH FOR HEALTH CARE PROFESSIONALS

Term Hours: 54 Lec, 0 Lab

Letter Grade or Credit/No Credit

The course is designed specifically to meet the communication needs of persons engaged in the health professions: doctors, dentists, nurses, technicians, and aides. No prior knowledge of Spanish is necessary. The course introduces basic grammatical structures of Spanish and focuses on the vocabulary associated with these professions. (CSU)

SPAN 200 5.0 UNITS

INTERMEDIATE SPANISH I

Term Hours: 90 Lec, 0 Lab

Letter Grade or Credit/No Credit

Prerequisite: The student must be able to speak and read English. The student can be successful in SPAN 200 only after having achieved all of the minimal performance objectives specified for both SPAN 100 and SPAN 110. Either a recent course in SPAN 110 or a recent 3 year high school Spanish course with good retention should enable the student to succeed in SPAN 200. A continuation

SPAN 225 3.0 UNITS



WT 130 4.0 UNITS
WASTEWATER TREATMENT I

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Recommended Preparation: WT 120.

This course is designed to train operators in the effective operation of wastewater treatment plants. Course will consist of the fundamentals of wastewater treatment, start-up operation, daily operation, interpretation of laboratory results, and process control. (CSU)

WT 140 4.0 UNITS
WATER DISTRIBUTION SYSTEMS

Term Hours: 72 Lec, 0 Lab

Letter Grade only

This course is designed to provide operators with the necessary skills required for the proper installation, inspection, operation, maintenance, repair, and management of water distribution systems. Among the topics covered are: distribution mathematics, distribution system hydraulics, state and federal regulations distribution systems design, water main and valve installation, fire hydrants, water services and meters, backflow and cross-connection control pumps and motors, occupational safety, and utility management. (CSU)

WT 210 4.0 UNITS
WATER TREATMENT PLANT OPERATOR II

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Prerequisite: WT 110.

Study of freshwater treatment plant safety, iron, and manganese control; fluoridation, softening, demineralization, handling, and disposal of process wastes; instrumentation, maintenance, administration, drinking water regulations, and treatment plant math. (CSU)

WT 220 3.0 UNITS
COMPUTATIONAL PROCEDURES FOR TREATMENT PLANT OPERATOR II

Term Hours: 54 Lec, 0 Lab

Letter Grade only

Prerequisite: WT 120.

This course is designed to give water and wastewater treatment operators a general knowledge of basic mathematics as applied to treatment plant operations. This course includes mathematics pertaining to wastewater collection, preliminary treatment, secondary treatment, trickling filters, secondary clarifiers, and activated sludge. (CSU)

WT 230 4.0 UNITS
WASTEWATER TREATMENT II

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Prerequisite: WT 130.

Course will consist of wastewater maintenance, plant safety, sampling, laboratory procedures, hydraulics, records, process control, activated sludge, sludge digestion, solids handling, and possible approaches to solving operational problems. (CSU)

WELD 100 5.0 UNITS
WELDING TECHNOLOGY

Term Hours: 54 Lec, 108 Lab

Letter Grade only

A complete basic study of welding technology and safety, the student practices welding techniques for skill development in Shield Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), Oxy/Acetylene welding and cutting (OFW, OFC) and Plasma Arc Cutting (PAC). All the welding and cutting processes require proper use of Personal Protective Equipment (PPE) and following shop safety, electrical safety, and safe tool usage. (Formerly WELD 130) (CSU)

WELD 101 3.0 UNITS
GAS TUNGSTEN ARC WELDING ON PLATE

Term Hours: 36 Lec, 72 Lab

Letter Grade only

Recommended preparation: WELD 100 (formerly WELD 130).

Theory, practice, and application of Gas Tungsten Arc Welding process on mild steel plate, aluminum, and stainless material. Safe equipment set up, welding symbols, and its application in GTAW process is taught and applied. (Formerly WELD 160) (CSU)

WELD 102 5.0 UNITS
ARC WELDING ON PLATE

Term Hours: 54 Lec, 108 Lab

Letter Grade only

Recommended preparation: WELD 100 (formerly WELD 130).
Shield Metal Arc Welding on carbon steel plate. The student develops welding skills to a professional entry level. Follow proper shop safety practices and PPE. Review of Oxy/Acetylene cutting, filler electrode application, blueprint interpretation, welding symbols, joint designs, and proper use of filler gauges to follow the specifications required for fusion and heat input throughout drawing. (Formerly WELD 220) (CSU)

WELD 103 3.0 UNITS
ARC WELDING ON PIPE

Term Hours: 36 Lec, 72 Lab

Letter Grade only

Recommended preparation: WELD 100 (formerly WELD 130) and WELD 102 (formerly WELD 220).
Emphasis is on skill development for Shield Metal Arc Welding on carbon steel pipe (open-root) with use of E6010 and E7018 electrodes. Proper use of filler metal and welding joint designs are emphasized throughout the course. Oxy/Acetylene cutting process is used for preparing welding coupons. Safety and PPE (Proper Personal Equipment) is enforced throughout the course. (CSU)

WELD 104 3.0 UNITS
GAS TUNGSTEN ARC WELDING ON PIPE

Term Hours: 36 Lec, 72 Lab

Letter Grade only

Recommended Preparation: WELD 103.
Emphasis is on advanced Gas Tungsten Arc Welding on carbon steel, and stainless purged pipe. Proper pipe cleaning, preparation, and tting along with heat input are emphasized throughout the courmWWd emphasisNaaihtXNcOWZseOWXN.OSXdSXNSXbXIIIdSXNSXbedSXNSXtionSXWtio



APPRENTICESHIP TRAINING PROGRAMS

**APLN 107 4.0 UNITS
POWER LINEMAN VII**

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Pre-requisites: APLN 106 - Power Lineman VI.

Theory and practicum in the procedures for completing commercial and residential connections, extensive overview of watt hour installations, and the installation and maintenance of series and multiple circuit street lighting systems. (Nontransferable, AA/AS degree only)

**APLN 108 4.0 UNITS
POWER LINEMAN VIII**

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Prerequisites: APLN 107 - Power Lineman VII.

Advanced theory in the use of "hot sticks," specialized equipment, repair and maintenance of poles and lines (energized and de-energized), safety practices, local and state requirements, and lineman mathematics.

APPRE _ICE , IP-RELAY _EQ ICIA

**APRL 105 4.0 UNITS
RELAYS TECHNICIAN V**

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Prerequisite: ELTT 104 - Electrical Trades IV.

Comprehensive review in AC substation safety and AC theory with an introduction to troubleshooting in the field. An introduction to working on de-energized substation equipment and lines. (Non-transferable, AA/AS degree only)

**APRL 106 4.0 UNITS
RELAYS TECHNICIAN VI**

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Prerequisite: APRL 105 - Relays Technician V.

An introduction to instrument transformers and substation metering devices. Continued study in principles and application of capacitors, reactors, circuit breakers, and relays. Introduction to the basic principles in the operation of power transformers. (Nontransferable, AA/AS degree only)

**APRL 107 4.0 UNITS
RELAYS TECHNICIAN VII**

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Prerequisites: APRL 106 - Relays Technician VI.

Overview of switching orders, flashouts and electrical burns. Theory and practicum in the procedures for completing, testing, and troubleshooting commercial and residential connections. Review of advanced electrical systems. (Nontransferable, AA/AS degree only)

**APRL 108 4.0 UNITS
RELAYS TECHNICIAN VIII**

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Prerequisite: APRL 107 - Relays Technician VII.

Advanced review in types of relays for generators, transmission applications, transformers and substation buss protection; and review of IID communication systems. Comprehensive study in the principles of disaster recovery and use of emergency generators. (Nontransferable, AA/AS degree only)

APPRE _ICE , IP- CA^DA _ELE _EQ ICIA

**APSC 105 4.0 UNITS
SCADA/TELECOMMUNICATIONS TECHNICIAN V**

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Prerequisite: ELTT 104 - Electrical Trades IV.

Instruction in distribution line installation, maintenance, repair, and removal. Training in the use of hot sticks and gloves. An overview of pole top transformer, transmission and distribution line replacement, and working on de-energized transmission lines. Advanced review of high voltage AC systems and advanced mathematical review. (Nontransferable, AA/AS degree only)

**APSC 106 4.0 UNITS
SCADA/TELECOMMUNICATIONS TECHNICIAN VI**

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Prerequisite: APSC 105 - SCADA/Telecommunications Technician V. Comprehensive review in AC theory and advanced training in distribution line maintenance (i.e., transmission structures, transmission line installation, climbing steel poles and towers, working on de-energized lines, rigging for high voltage work, hot transmission line repair, using temporary structures, and the safe use of gloves and hotsticks). (Nontransferable, AA/AS degree only)

**APSC 107 4.0 UNITS
SCADA/TELECOMMUNICATIONS TECHNICIAN VII**

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Prerequisite: APSC 106 - SCADA/Telecommunications Technician VI. Introduction to Service Connections and Watthour Meters (i.e., service installation, electric meters, and cable fault location). An overview of the use and maintenance of compressors and pneumatic tools. Safety training in T & D maintenance, transmission line safety and flashouts/electrical burns. An introduction to fiber optic connections. (Nontransferable, AA/AS degree only)

**APSC 108 4.0 UNITS
SCADA/TELECOMMUNICATIONS TECHNICIAN VIII**

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Prerequisite: APSC 107 - SCADA/Telecommunications Technician VII.

APPRENTICE, IP-UBAJO-ELECTRICIA

APSB 105 4.0 UNITS SUBSTATION ELECTRICIAN V

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Prerequisite: ELTT 104 - Electrical Trades IV.

Comprehensive review in AC theory and advanced training in distribution line maintenance (i.e., transmission structures, transmission line installation, climbing steel poles and towers, working on de-energized lines, hot transmission line repair, safe usage of gloves and other safety equipment, working in confined spaces and substations). (Nontransferable, AA/AS degree only)

APSB 106 4.0 UNITS SUBSTATION ELECTRICIAN VI

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Prerequisite: APSB 105 - Substation-Electrician V.

Comprehensive review in AC theory and advanced training in substation construction and maintenance, transmission line installation, working on de-energized lines, rigging for high voltage work, appropriate use of control equipment. (Nontransferable, AA/AS degree only)

APSB 107 4.0 UNITS SUBSTATION ELECTRICIAN VII

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Prerequisite: APSB 106 - Substation-Electrician VI.

Theory and practicum in the procedures for recognizing easements and right-of-ways, extensive overview of watt hour installations, installation and maintenance of circuit breakers and review of basic business protocols. (Nontransferable, AA/AS degree only)

APSB 108 4.0 UNITS SUBSTATION ELECTRICIAN VIII

Term Hours: 72 Lec, 0 Lab

Letter Grade only

Prerequisite: APSB 107 - Substation-Electrician VII.

Advanced theory in the use of specialized equipment, repair and maintenance of circuit breakers and regulators, safety practices, review of local uUZPyQUIYo



MAJOR

Generally, eighteen (18) units of specified course work will satisfy the requirement for the major. However, some majors will require more than eighteen (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 requirement. 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. "Recommended Courses" are courses that are recommended as electives are beyond the major's requirement. 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.

ADMINISTRATIVE JUSTICE

ALL REQUIRED COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER.

Twenty-four (24) units required for the major

- I. Required courses for the major**
 - AJ 100 Intro to the Administration of Justice.....3
 - AJ/CSI 102 Concepts of Criminal Law3
 - AJ 104 Legal Aspects of Evidence3
 - AJ 106 Principles and Procedures of the Justice System .3
 - AJ 110 Police Community Relations.....3
 - AJ/CSI 120 Public Safety Communications.....3
- II. Acceptable courses for the major**
(6 units from the following courses).
 - AJ 080 Security Guard (Arrest)0.5
 - AJ 121 Police Field Operations3
 - AJ 122 Criminal Investigation3
 - AJ 123 Juvenile Control.....3
 - AJ/SOC 124 Criminology3
 - AJ 141 Arrest and Firearms3.5
 - CSI 100 Introduction to Corrections3
 - CSI 104 Concepts of Probation & Parole.....3

III. Recommended as electives (do not fulfill major requirements)

AJ 142	Reserve Officers III	10
AJ 144	Reserve Officers Level II	13.5
AJ 150	Advanced Officers Course.....	5-3

AGRICULTURAL BUSINESS MANAGEMENT

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 operations 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.

ALL REQUIRED COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

Twenty-four (24) units required for the major

- I. Required courses for the major**
 - AG 130 Agricultural Economics.....3
 - AG/BUS 132 Business Management.....3
 - AG 134 Agricultural Bus Organization3
 - AG 136 Agricultural Sales and Service Management....3
- II. Acceptable courses for the major**
(select a minimum of 12 units)
 - AG 080 Pesticide Safety.....1

AGRICULTURAL SCIENCE

The Agricultural Science major deals with the application of the various principles of the biological and physical sciences in agriculture. The course offerings are fundamental and broad in scope so that students can prepare for transfer or one of the hundreds of opportunities in the Animal Science or Soil Science.

ALL REQUIRED COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER.

Twenty-six (26) units required for the major

I. Required courses for the major

AG 120	Soil Science.....	3
AG 140	Principles of Plant Science	4
AG 170	Entomology.....	3
CHEM 100	Introduction to Chemistry	4

II. Acceptable Courses (select a minimum of 12 units)

AG 080	Pesticide Safety.....	1
AG 138	Computer Applications in Agriculture.....	3
AG 150	Ornamental Plant Identification and Materials	3
AG 160	Food and Fiber in a Changing World.....	3
AG 220	Irrigation and Drainage.....	3
AG 230	Fertilizers and Soil Amendments.....	3
AG 240	Field and Cereal Crops.....	4
AG 250	Vegetable Crop Production.....	3
AG 260	Plant Protection and Integrated Management	3
AG 270	Weeds and Weed Control.....	3
CIS 101	Introduction to Information Systems.....	3

AIR CONDITIONING AND REFRIGERATION TECHNOLOGY

PENDING CALIFORNIA COMMUNITY COLLEGE
SYSTEM OFFICE APPROVAL

The Air Conditioning and Refrigeration major and certificate are de-

AG/ENVS 110	Environmental Science	3
GEOG 100	Physical Geography.....	3
GEOL 100	General Geology.....	4

II. Electives – Student must choose one course from the following elective courses (3.0)

ANTH/AIS 104	California Indians	3
ANTH/AIS 108	Indians of the Southwest	3
ART 170	Photography – Beginning.....	3
ART 270	Photography – Intermediate	3
BIOL 142	Ethnobotany.....	3
HIST 100	Early World History	3
HIST 222	History of California.....	3
RELS 10	Religions of the Modern World (was PHIL 108).....	3

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ALL REQUIRED COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER.

BEHAVIORAL SCIENCE

The requirement for a major in Behavioral Science may be satisfied by taking 18 units from the following list. Three units in each discipline are recommended. No more than 12 units may be taken in any discipline.

BUSINESS ADMINISTRATION

This program provides students with education and training needed to qualify for jobs that require a higher level of education and work experience in an office setting. These types of jobs require good communication and technology skills, and it helps to be someone who works independently, is organized, and takes initiative. These individuals provide administrative support to an individual or an office. Job duties may include directing and coordinating administrative services.

ALL REQUIRED COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER.

Twenty-seven (27) units and skill level required for the major

I. Required courses for the major

BUS126	Business and the Legal Environment.....	3
BUS 136	Human Relations in Management.....	3
BUS 167	Machine Calculation	1
BUS 172	Office Tech & Procedures II	3
BUS 176	Office Transcription	1
BUS 180	Microsoft Office for the Workplace.....	4
BUS 210 **	Principles of Financial Accounting.....	4
BUS 260	Business Communications.....	3
CIS 101	Intro to Information Systems.....	3
WE 201 *	Employment Readiness	1
WE 220 *	Internship.....	1

II. Required skill level for the major

Keyboarding skill level 50 nwp. (BUS 156, Keyboarding Speed & Accuracy may be helpful in obtaining this speed level.)

*It is recommended that the work experience courses be taken after completion of at least 12 units in the major.

** It is recommended that BUS 010 be taken as preparation for BUS 210.

BUSINESS SPECIAL SERVICE

B U I E M A R E J G

The Marketing program provides students with education and training needed for entry level marketing positions in areas such as government, retail, banking, and hospitality. These positions require students who are mature, adaptable, analytical, and who have good organizational and communication skills. Students who intend to pursue a four-year business degree should follow the Business Administration major.

ALL REQUIRED COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER

III. Recommended General Education courses	
ENGL 101 Reading & Composition.....	3

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ALL REQUIRED COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER.

Eighteen (18) units required for the major

I. Required courses for the major

ENGL 101	Reading & Composition	3
ENGL 102	Introduction to Literature.....	3
ENGL 201	Advanced Composition.....	3

Select One Sequence

ENGL 220-221	Survey of American Literature-I.....	3-3
ENGL 222-223	Survey of World Literature	3-3
ENGL 224-225	Survey of English Literature	3-3

II. Acceptable courses for the major

(3 units from the following courses)

ENGL 220*	Survey of American Literature I.....	3
ENGL 221*	Survey of American Literature II.....	3
ENGL 222*	Survey of World Literature.....	3
ENGL 223*	Survey of World Literature.....	3
ENGL 224*	Survey of English Literature.....	3
ENGL 225*	Survey of English Literature.....	3
ENGL/		

II. Select one (1) course from the following:

ASTR 100	Principles of Astronomy.....	3
CHEM 100	Intro to Chemistry.....	4
CHEM 160	Intro to General, Organic & BioChem.....	5
ENVS/AG 110	Environmental Science.....	3
GEOG 100	Physical Geography.....	3
GEOL 100	General Geology.....	4
GEOL 110	Earth and Space Science.....	3
PHSC 110	Physical Science.....	3

III. Select remaining courses from the following to reach eighteen (18 units):

BIOL 200	Human Anatomy & Physio I.....	4
BIOL 202	Human Anatomy & Physio II.....	4
BIOL 204	Human Anatomy.....	4
BIOL 206	Human Physiology.....	4
BIOL 220	General Microbiology.....	5
CHEM 200	General Inorganic Chemistry I.....	5
CHEM 202	General Inorganic Chemistry II.....	5
CHEM 204	Organic Chemistry I.....	5
CHEM 206	Organic Chemistry II.....	5
CS 220	Intro to Object Oriented Prog Using Java.....	4
MATH 190	Pre-	
CS YXPAQeePTHQUZYZP190QUYeeYPPQYdPrQcPenerQeYeor		
BZX		

IV. Must select three units (3) from the following

HIST 110	Early Western Civilization	3
HIST 111	Modern Western Civilization	3
PHIL 100	Intro to Philosophy I	3
PHIL 102	Intro to Philosophy II	3
RELS 100	Religions of the Modern World.....	3

V. Must select six units (6) from the following

AMSL 100	American Sign Language 1	4
AMSL 102	American Sign Language 2	4
ENGL 102	Intro to Literature	3
ENGL 222	Survey of World Literature.....	3
ENGL 223	Survey of World Literature.....	3
ENGL/HUM 226	Intro to Mythology	3
ENGL 250	Creative Writing.....	3
FREN 100	Elementary French I.....	5
FREN 110	Elementary French II.....	5
MUS 176	Rehearsal & Performance.....	1
SPAN 100	Elementary Spanish I.....	5
SPAN 110	Elementary Spanish II.....	5
SPAN 220	Bilingual Spanish I.....	5
SPAN 221	Bilingual Spanish II.....	5
SPCH 100	Oral Communication.....	3
SPCH 110	Intermediate Public Speaking.....	3
SPCH 180	Argumentation & Debate	3
THEA 120	Fundamentals of Acting.....	3

II. Acceptable courses for the major

(minimum of six (6) units from the following courses)

LEGL 125	Real Estate Law for Legal Assistants	3
LEGL 126	Wills, Trusts, Probate and Estate Admin	3
LEGL 127	Family Law	3
LEGL 128	Bankruptcy	3
LEGL 129	Torts.....	3
WE 201	Employment Readiness	1
WE 220	Internship.....	1

LIBERAL STUDIES - GENERAL OPTION

The Liberal Studies Major will provide an educational experience which prepares students to think critically, write clearly and effectively, analyze evidence, and appreciate the differences between subject areas. Students who complete the major should find opportunities in a variety of careers

ATTENTION!

If you are planning differences between these two options, please contact your advisor. For more information, visit the Liberal Studies website at www.liberalstudies.com.

LIBRARY_EC ICIA

ALL REQUIRED COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER

Twenty-four (24) units is required for the major

I. Required courses for the major

BUS 136	Human Relations in Management.....	3
CIS 101	Introduction to Information Systems.....	3
LBRY 151	Introduction to Library Services.....	3
LBRY 152	Library Technical Services	3
LBRY 153	Library Public Services	3
LBRY 154	Introduction to Media Services	3
LBRY 155	Introduction to Cataloging & Classification	3
LBRY 156	Information and Reference Services	3

II. Suggested Additional Courses

WE 201	Employment Readiness	1
WE 220	Internship.....	1-4

LI E CIE CE

ALL REQUIRED COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER

Twenty-four (24) units required for the major

I. Select a minimum of 18 units from the following

ANTH 100	Physical Anthropology	3
BIOL 120	General Zoology I.....	4
BIOL 122	General Zoology II	4
BIOL 140	General Botany	3
BIOL 142	Ethnobotany: Plants and HuSXYa.,a..... /XYa /XYa /XYa /a.....1-4T...P..... /XYa /XYa /XYa /XYa /a.....1-4T...P..... /XYa /X	

CIS 137	Dreamweaver.....	3
CIS 149	Photoshop.....	3
CIS 155	Flash.....	3
CIS 212	XHTML.....	3
CIS 214	PHP.....	3
WE 201	Employment Readiness.....	1
WE 220	Internship.....	1

- II. Select a minimum of three (3) units from the following courses:
- | | | |
|---------|------------------------------------|---|
| ART 120 | Drawing..... | 3 |
| ART 260 | Advertising/Graphic Design..... | 3 |
| BUS 260 | Business Communications..... | 3 |
| CIS 107 | Networking..... | 3 |
| CIS 201 | Programming in Visual Basic 9..... | 3 |

MUSIC

ALL REQUIRED COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER

Twenty-nine (29) units required for the major

I. Required courses for the major (minimum of 25 units from the following courses)

- a. Academic courses (minimum of 20 units from the following courses)
- | | | |
|---------|-----------------------------------|---|
| MUS 110 | Beginning Musicianship I..... | 2 |
| MUS 112 | Beginning Musicianship II..... | 2 |
| MUS 120 | Beginning Harmony I..... | 3 |
| MUS 122 | Beginning Harmony II..... | 3 |
| MUS 210 | Intermediate Musicianship I..... | 2 |
| MUS 212 | Intermediate Musicianship II..... | 2 |
| MUS 220 | Intermediate Harmony I..... | 3 |
| MUS 222 | Intermediate Harmony II..... | 3 |

Note: MUS 110 and 120 must be taken concurrently and the sequence followed through MUS 212 and 222.

- b. Applied Music (minimum of 5 units from the following courses) (Requirement may be waived through proficiency examination with units substituted from Section II to reach units required in the major.)

- c. Performance Ensembles (minimum of 4 units from the following courses)
- | | | |
|---------|----------------------------------|---|
| MUS 242 | Intermediate Group Piano II..... | 1 |
| MUS 250 | Intermediate Voice I..... | 1 |
| MUS 252 | Intermediate Voice II..... | 1 |

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

- II. Recommended as electives to reach 29 units for major:
- | | | |
|---------|---------------------------------------|---|
| MUS 104 | Intro to 20th Century Music..... | 3 |
| MUS 160 | Beginning Guitar I..... | 1 |
| MUS 162 | Intermediate Guitar II..... | 1 |
| MUS 174 | Estudiantina..... | 1 |
| MUS 175 | Instrumental Ensemble..... | 1 |
| MUS 176 | Rehearsal and Performance..... | 1 |
| MUS 200 | History & Literature of Music I..... | 3 |
| MUS 202 | History & Literature of Music II..... | 3 |

URUG-ACADEMIC DEGREE

The purposes of this Nursing Program are to provide the education necessary for licensure and practice as a Registered Nurse (RN). Acceptance into the program requires successful completion of all prerequisites and successful completion of the application and selection processes. After selection, the student must have a current American Heart BLS/CPR certification, reached or exceeded the predetermined cut score on the Test for Essential Academic Skills (TEAS), and successfully passed a criminal background and drug screening. **All required prerequisites and nursing courses must be completed with a grade of "C" or better.** Contact the Nursing and Allied Health Division for more specifics.

Generic Studies

- I. Prerequisites for the major
- | | | |
|------------|---|---|
| ENGL 101 | Reading & Composition..... | 3 |
| BIOL 220 | General Microbiology with Lab..... | 5 |
| BIOL 200 | Human Anatomy & Physiology I with Lab..... | 4 |
| AND | | |
| BIOL 202 | Human Anatomy & Physiology II with Lab..... | 4 |
| OR | | |
| BIOL 204 | Human Anatomy with Lab..... | 4 |
| AND | | |
| BIOL 206 | Human Physiology with Lab..... | 4 |
| SOC 101 | Introduction to Sociology..... | 3 |
| OR | | |
| ANTH 102 | Cultural Anthropology..... | 3 |
| PSY 101 | Introduction to Psychology..... | 3 |
| NURS 100 | Medication Mathematics..... | 1 |

Math Competency: A placement score of 2006 or higher on the ACCUPLACER™ College Level Mathematics Test or Mathematics 090 (MATH 090) with a grade of "C" or higher or a higher level Math with a grade of "C" or higher.

Reading Competency: A placement score of 3006 on the ACCUPLACER™ Reading Test or English 089 (ENGL 089) with a grade of "C" or higher or English 111 (ENGL 111) with a grade of "C" or higher.

2. Recommended for the major
- | | | |
|---------|--|---|
| PSY 204 | Developmental Psychology: Conception to Death..... | 3 |
|---------|--|---|

3. Admission Requirements for the major
- TEAS Exam:** Must pass exam at the predetermined minimum cut score (or higher) as set by the college and the State of California.

Background

4. **Additional Degree Requirements**

SPCH100	Oral Communications.....	3
PE 100	Lifetime Exercise Science.....	2
PE	Activity Course.....	1
	Humanities Elective.....	3
	American Institutions Requirement.....	6

5. **Progression Policy**
 All nursing courses must be taken in sequence and must be completed with a "C" or better with skills and clinical experience courses receiving the equivalent of "C" or "Satisfactory" or better to progress to the next level. Nursing Program graduates must submit a transcript demonstrating successful completion of all course work and graduation prior to sitting for the National Council Licensure Examination for Registered Nurses.

6. **Registered Nursing Program Required Courses:**

Semester 1:

NURS 110	Nursing Process I.....	4.5
NURS 111	Nursing SkTXYalZcba	

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PHYSICAL EDUCATION

ALL REQUIRED COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER

Nineteen (19) units required for the major

I. Required courses for the major

HE 102	Health Education	3
HE 104	First Aid	3
PE 122	Lifeguard Training/Advanced Lifesaving	2
PE 210	Intro to Physical Education	2

Emphasis in *Behavioral and Social Sciences*

Select a minimum of 18 units from the following Behavioral and Social Science courses. For depth, include a minimum of two courses from a single discipline; for breadth, include courses from at least two disciplines. Courses can be counted toward completed of General Education requirements.

These courses emphasize the perspective, concepts, theories and methodologies of the disciplines typically found in the vast variety of disciplines that comprise study in the Behavioral and Social Sciences. Students will study about themselves and others as members of a larger society. Topics and discussion to stimulate critical thinking about ways people have acted in response to their societies will allow students to evaluate how societies and social sub-groups operate.

This area of emphasis allows students to select courses that will prepare them for possible majors at four-year colleges and universities typically within the fields of History, Ethnic Studies, Political Science, Psychology, Sociology, and other related disciplines.

- AJ 100, 102, 106, 124
- ADS 20, 150
- AIS 104, 105, 108
- ANTH 102, 104, 106, 108
- CDEV 104
- CSI 102
- ECON 101, 102
- GEOG 102, 108
- HIST 100, 101, 110, 111, 120, 121, 130, 131, 132, 140, 150, 160, 220, 222, 223, 225
- LAS 130, 131, 132, 225
- POLS 100, 102, 104, 106
- PSY 101, 104, 120, 142, 144, 146, 200, 202, 204, 206, 208, 212
- SW 220
- SOC 101, 102, 124, 150, 206

Emphasis in *Science and Mathematics*

Select a minimum of 18 units from the following Science and Mathematics courses. **Required, one mathematics course above the level of intermediate algebra.** For depth, include a minimum of two courses from a single discipline; for breadth, include courses from at least two disciplines. Courses can be counted toward completed of General Education requirements.

These courses emphasize the natural sciences which examine the physical universe, its life forms and its natural phenomena. Courses in Math emphasize the development of mathematical and quantitative reasoning skills beyond the level of intermediate algebra. Students will be able to demonstrate an understanding of the methodologies of science as investigative tools. Students will also examine the influence that the acquisition of scientific knowledge has on the development of the world's civilizations.

This area of emphasis allows students to select courses that will prepare them for possible majors at four-year colleges and universities typically within the fields of Biology, Chemistry, Earth Science (Geography and/or Geology), Environmental Science, Education, Engineering, Kinesiology, Mathematics, Nursing, Physical Science and other related disciplines.

- AG 110, 120, 140, 170
- ASTR 100
- BIOL 100, 120, 122, 140, 150, 180, 182, 200, 202, 204, 206, 220
- CHEM 100, 160, 200, 202
- CIS 101, 202, 208, 210
- CS 210, 220, 230, 280
- ENGR 210, 212, 240
- ENVS 110
- GEOG 100
- GEOL 100, 110
- MATH 110, 112, 119, 122, 130, 140, 150, 170, 190, 192, 194, 210, 220, 230, 240
- PHSC 110
- PHYS 200, 202, 204

WELDING TECHNOLOGY

ALL REQUIRED COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER

Twenty-two (22) units required for the major

- I. **Required courses for the major**
 - WT 110 Water Treat Plant Oper I4
 - WT 120 Computational Procead for Treatment Plant Oper I.....3
 - WT 130 Wastewater Treatment I4
 - WT 210 Water Treat Plant Oper II.....4
 - WT 220 Computational Procead for Treatment Plant Oper II.....3
 - WT 230 Wastewater Treatment II.....4
- II. **Recommended courses for the major**
 - AG/BUS 132 Business Management3
 - BUS 134 Mgmt Concepts of Supervision.....3
 - BUS 136 Human Relations in Management3
 - CHEM 200 General Inorganic Chemistry I5

WELDING TECHNOLOGY

The practice of joining metals by welding is becoming more of a science every day. Imperial Valley College recognized this and consequently has instituted a two-year Associate Degree program in Welding Technology. This program is designed to train technicians by giving the student ample laboratory welding practice along with related theory, plus a firm background in associated subjects such as mechanics and metal-fabricating techniques.

ALL REQUIRED COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER

Twenty-two (22) units required for the major

- I. **Required courses for the major**
 - WELD 100 Welding Technology (formerly WELD 130).....5
 - WELD 101 Gas Tungsten Arc Welding on Plate (formerly WELD 160)3
 - WELD 102 Arc Welding on Plate (formerly WELD 220)5
 - WELD 103 Arc Welding on Pipe3
 - WELD 104 Gas Tungsten Arc Welding on Pipe3
 - WELD 105 Flux Core Arc Welding Techniques.....3

CERTIFICATE PROGRAM

ADMINISTRATIVE COURSES

ALL REQUIRED COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

Twenty-one (21) to twenty-four and one half (24.5) units

I. Required courses for the certificate

AJ 100	Intro to Admin of Justice.....	3
AJ/CSI 102	Concepts of Criminal Law.....	3
AJ 104	Legal Aspects of Evidence.....	3
AJ 106	Prin & Proce of the Justice System.....	3
AJ 110	Police Community Relations	3
AJ 123	Juvenile Control	3
ENGL 101	English Composition.....	3
ENGL 089*	Reading	3.5

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AGRICULTURAL BUSINESS MANAGEMENT

ALL REQUIRED COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

Twenty-five to twenty-six (25-26) units required for the certificate

I. Required courses for the certificate

AG 080	Pesticide Safety	1
AG 120	Soil Science	3
AG 130	Agricultural Economics	3
AG/BUS 132	Business Management	3
AG 134	Agricultural Bus Organization.....	3
AG 136	Agri Sales & Service Management.....	3
AG 160	Food & Fiber in a Chang World	3

II. Select two (2) courses from the following

AG 138	Computer Applications in Agriculture.....	3
AG 140	Principles of Plant Science.....	4
AG 170	Entomology	3
BUS 010	Practical Accounting	3
BUS 126	Bus & the Legal Environment	3
BUS 144	Principles of Marketing.....	3
CIS 101	Intro to Information Systems	3

AGRICULTURAL CROP SCIENCE

ALL REQUIRED COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

Twenty-seven (27) units required for the certificate

I. Required courses for the certificate

AG 080	Pesticide Safety	1
AG 120	Soil Science	3
AG 140	Principles of Plant Science.....	4
AG 170	Entomology	3
AG 230	Fertilizers & Soil Amendments.....	3
AG 240	Field & Cereal Crops.....	4
AG 250	Vegetable Crops.....	3
AG 270	Weeds & Weed Control	3

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

AG 138	Computer Applications in Agriculture.....	3
AG 150	Ornamental Plant Identification and Materials.....	3
AG 160	Food & Fiber in a Changing World	3
AG 220	Irrigation & Drainage.....	3
AG 260	Plant Protection & Integrated Pest Management....	3

AIR CONDITIONING AND REFRIGERATION TECHNOLOGY

PENDING CALIFORNIA COMMUNITY COLLEGE SYSTEM OFFICE APPROVAL

The Air Conditioning and Refrigeration Technology Certificate is designed to provide instruction in manipulative skills, technical knowledge, and related trade information, which will prepare the student for employment in the Air Conditioning and Refrigeration industry.

ALL REQUIRED COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

Seventeen (17) units required for the certificate

I. Required courses for the certificate

ACR 101	Air Conditioning/Refrigeration Systems	3
ACR 102	Residential Air Conditioning Systems.....	3
ACR 103	Air Conditioning Electrical Circuits/Controls.....	3
ACR 104	Air Conditioning Heating Systems	3
ACR 105	Heat Load Calculation and Measurements	2
ACR 106	Air Conditioning Ventilation Duct Systems	3

ALCOHOL AND DRUG STUDIES

Imperial Valley College is an accredited CAADE (California Association for Alcohol/Drug Educators) program. The Alcohol and Drug Studies major and certificate meet state requirements. Students completing these programs can take the CATC examination and obtain the California Addiction Treatment Counselor Credential. This credential will help students obtain jobs in social service agencies, treatment programs, recovery homes, schools, DEA, and law enforcement.

This program prepares student for transfer to institutions providing higher degrees with the social service majors.

ALL REQUIRED COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

Thirty-six (36) units required for the certificate

I. Required courses for the certificate (27 units)

ADS101	Alcoholism: Intervention, Treatment, & Recovery.....	3
ADS110	Physiological Effects of Alcohol & Drugs.....	3
ADS/PSY120	Intro to Counseling.....	3
ADS/PSY130	Group Leadership & Group Process.....	3
ADS 200	Family and Community Treatment,	

BUILDING CONSTRUCTION PROJECT MANAGEMENT

PENDING CALIFORNIA COMMUNITY COLLEGE
SYSTEM OFFICE APPROVAL

The Building Construction Project Management Certificate program offers a sequence of coursework to prepare the student to fulfill the job duties of a Building Construction Project Manager/Supervisor. The student will master sets of technical competencies which are associated with interpretation of building plans, construction methods, principles, materials, specifications, and standards compliance. Included will be construction safety, quality assurance, and cost estimating. Instructional units on the fundamentals of interaction

BUSINESS FINANCIAL SERVICES

The Business Financial Services program provides students with education and training needed for entry level positions in the banking

BU I E O ICE EQ ICIA

This program provides students with entry level competencies for employment in an office. It helps to be a good team player who pays attention to detail, to be adaptable and versatile, and to have interpersonal and analytical skills.

COMPUTER TECHNOLOGY

This program provides students with education and training to qualify for jobs such as PC Service Center Technician, Field Technician, Help Desk Technician, PC Network Support Technician, and Programmer. Also provides the lower division coursework for advanced degrees. Since requirements vary at each four-year school, transfer students should consult with a counselor to develop a program for the specific school they wish to attend.

ALL REQUIRED COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

Twenty (20) units required for the certificate

ABILITY SERVICE _EC ICIA

ALL REQUIRED COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

Nineteen to Twenty (19-20) units required for the certificate

- I. **Required courses for the certificate**
 - DSPS/EDUC 240 Understanding Excep Students.....3
 - DSPS/EDUC 242 Practicum Exper to Work w/Disabled Persons2
 - PSY 101 Introduction to Psychology.....3

- II. **A minimum of 6 units must be taken from Section II**

FIRE _EQ_ OLOGY

This certificate is designed to expand skills/knowledge in the areas of building and life safety, fire prevention, and fire protection services and for the transition from Fire fighter to Fire Officer. Thirty-three (33) units are required for this certificate. Completion of six (6) core courses is recommended prior to commencing 200 courses. Contact the Nursing and Allied Health Division for more specifics.

LEGAL ASSISTANCE

This program provides education and training for students considering a career in the legal industry as paralegals working under the direct supervision of lawyers in the public and private sectors.

ALL REQUIRED COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

Twenty-seven (27) units required for the certificate

- I. Required courses for the certificate

BUS 126	Bus & the Legal Environment	3
ENGL 101	Reading and Composition.....	3
LEGL 115	Legal Procedures	3
LEGL 116	Law Office Management.....	3
LEGL 117	Criminal Litigation and Procedures.....	3
LEGL 119	Civil Procedures and Discovery	3
LEGL 120	Corporations	3
LEGL 121	Legal Research.....	3
- II. Acceptable courses for the certificate
(select a minimum of 3 units from the following courses)

LEGL 125	Real Estate Law for Legal Assistants.....	3
LEGL 126	Wills, Trusts, Probate & Estate Admin.....	3
LEGL 127	Family Law	3
LEGL 128	Bankruptcy	3
LEGL 129	Torts.....	3
WE 201	Employment Readiness	3
WE 220	Internship.....	3

LIBRARY EDUCATION

ALL REQUIRED COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

Twenty-one (21) units is required for the certificate

- I. Required courses for the certificate

LBRY 151	Intro to Library Science	3
LBRY 152	Library Technical Services	3
LBRY 153	Library Public Services.....	3
LBRY 154	Introduction to Media Services.....	3
LBRY 155	Introduction to Cataloging & Classification.....	3
LBRY 156	Information and Reference Services.....	3
- II. Select a minimum of three (3) units from the following

BUS 061	Business English	3
BUS 136	Human Relations in Management	3
BUS 152	Basic Keyboarding	1
BUS 154	Beginning Keyboarding & Document Formatting.....	3
BUS 180	Microsoft Office for the Workplace	4.0
BUS 260	Business Communication	3
CIS 100	Computer Literacy	1
CIS 101	Introduction to Information Systems	3
CIS 120	Word I	1
CIS 121	Word II	1
CIS 124	Excel I.....	1
CIS 125	Excel II.....	1

CIS 130	Power Point I.....	1
SPCH 100	Oral Communications	3
WE 201	Employment Readiness	1
WE 220	Internship.....	1-4

MEDICAL ASSISTANCE

ALL REQUIRED COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

Twenty-six and one-half (26.5) units required for the certificate

- I. Required courses for the certificate

AHP 070	Administrative Medical Assistant I.....	4.5
AHP 072	Administrative Medical Assistant II.....	4.5
AHP 074	Clinical Externship	2
AHP 080	Specimen Collec & Lab Procedures	3.5
AHP 082	Exam Room Procedures.....	3.5
AHP 084	Pharmacology & Admin of Medication.....	3.5
AHP 086	Clinical Externship II	2
AHP 100	Medical Terminology.....	3

MULTIMEDIA AND WEB DEVELOPMENT

PENDING CALIFORNIA COMMUNITY COLLEGE
SYSTEM OFFICE APPROVAL

The Multimedia and Web Development program is an interdisciplinary program that combines technical knowledge with design, communication, and problem solving skills. It includes multimedia software applications and programming languages that allow a student to build dynamic Web applications. Students learn how to process information and then make this information available to audiences via electronic media. The program provides students with entry level competencies for employment as a Web Developer or other position which requires knowledge to produce a variety of

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UR I G -VOCAJO AL V

The Vocational Nursing certificate is designed to provide the education necessary for licensure and practice as a Licensed Vocational Nurse (LVN). Acceptance into the program requires successful completing of all prerequisites, successful completion of the application, and successful completion of the selection processes. After selection, the student must have current BLS/CPR certification and successfully passed a criminal background and drug screening. All required courses must be completed with a grade of "C" or better. Contact the Nursing and Allied Health Division for more specifics.

ALL REQUIRED COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

1. **Prerequisites for the major**

AHP 100	Medical Terminology.....	3
BIOL 090	Anat & Physio for Health Occupations.....	3
ENGL 101	Reading & Composition.....	3
PSY 101	Introduction to Psychology.....	3

2. **Progression Policy**

All nursing courses **must** be taken in sequence and must be completed with a C or better with skills and clinical experience courses receiving the equivalent of a "C" or "Satisfactory" or better to progress to the next level.

3. **Vocational Nursing Program Required Courses:**

Semester 1		
VN 110	Introduction to Client Care I.....	5
VN 112	Introduction to Client Care II.....	5
VN 114	Pharmacology I.....	1.5
VN 116	Patient Care Management & Critical Thinking...2.5	
PSY 204	Develop Psych: Conception to Death.....	3
Semester 2		
VN 120	Maternity Cycle.....	5.5
VN 122	Common Health Problems I.....	5.5
VN 124	Pharmacology II.....	2
Semester 3		
VN 130	Common Health Problems II.....	5.5
VN 132	Common Health Problems III.....	5.5

Total Nursing Units38
Total General Education/Support Courses15
Total Units for Degree53

EL I G _EC OLOGY

ALL REQUIRED COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

Twenty-two (22) units required for the major

- I. **Required courses for the major**

WELD 100	Welding Technology (formerly WELD 130).....	5
WELD 101	Gas Tungsten Arc Welding on Plate (formerly WELD 160).....	3
WELD 102	Arc Welding on Plate	

All Mathematics courses require a grade of "C" or higher to progress to the next level.

IVC Graduation Requirement - Math 090 or higher level with "C" or higher



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Admission into the Program

Prerequisites

Additional courses recommended for student success

- b. CHEM 160 - Introductory General, Organic & Analytical Chemistry.
- c. MATH 10 - Introductory Mathematics with Applications.
- d. PSY 10 - American Government and Politics.
- e. HIST 10 or 11 - United States History.
- f. PSY 10 - Developmental Psychology: Conception to Adulthood.

Advanced Placement for LVNs seeking admission to the RN Program:

Imperial Valley College offers three options for students seeking to advance to the level II options are open to students who have an active California RN License. Admission is based on space availability. **It is strongly recommended that Advanced Placement students meet with a counselor prior to applying to the nursing program and especially if considering advanced placement Option I or II.**

OPTION Associate Degree

1. Students seeking to complete the nursing program at Imperial Valley College must meet all requirements or admission as identified in the IVC Catalog and the Nursing Education Handbook structure, complete all prerequisite courses, complete the application process above, submit a resume and a copy of an accredited nursing program or related nursing courses deemed equivalent to the level, and submit a copy of a current California License. Applications are accepted throughout the year.

Prerequisites - Courses required for the Associate Degree must be completed in a grade of C or better.

ENGL 101 Reading Composition	.0
BIOL 10 General Microbiology	.0
BIOL 100 Human Anatomy & Physiology I and	.0
BIOL 100 Human Anatomy & Physiology II	.0
PSY 10 Human Anatomy .0 and	
PSY 106 Human Physiology	.0

Math Competency score of 006 or higher on the CC & CE College level Math Placement test. Math Placement 00 MATH 00 in a grade of C or higher or a higher level math course in a grade of C or higher.

Reading Competency score of 006 on the CC & CE Reading test. English 00 Reading I, Intermediate English in a grade of C or higher. English 111 Reading I, Analytical and Critical Reading in a grade of C or higher.

Additional degree requirements

CH 100 Oral Communication	.0
ENGL 100 Writing in the English Discipline	.0

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ADMI | RAJO

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