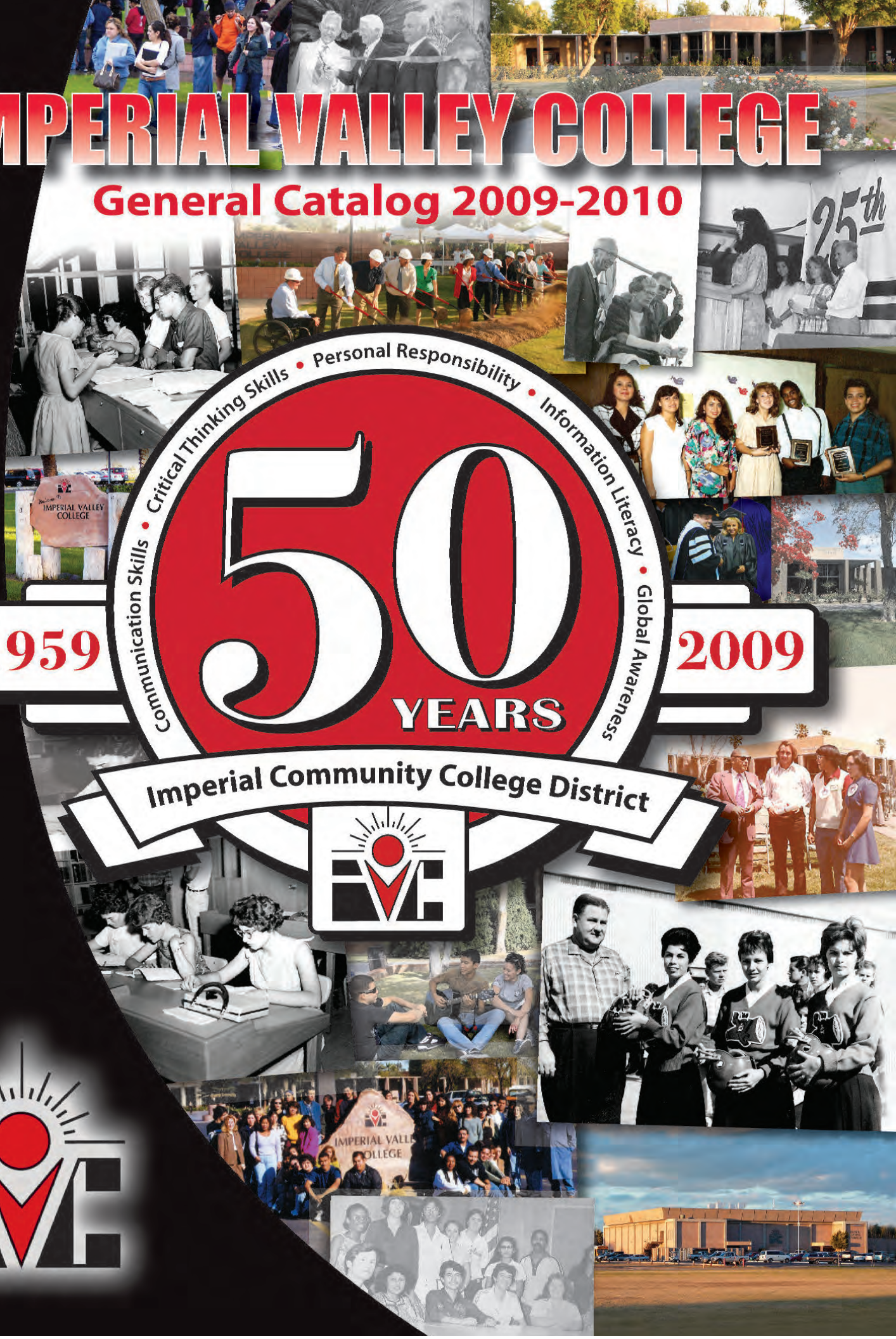
IMPERIAL VALLEY COLLEGE

General Catalog 2009-2010



IMPERIAL VALLEY COLLEGE

2009-2010 General Catalog

IMPERIAL COMMUNITY COLLEGE DISTRICT

380 E. Aten Road • Imperial, CA 92251-0158 • (760) 352-8320 • www.imperial.edu

Imperial Valley College welcomes you and wishes to take this opportunity to congratulate you on your decision to accept the challenge of further education. This catalog is your guide to and through this college and the many educational programs which it offers. You will find the information which you must have to succeed and those rules and regulations which govern the college and each student. It is your obligation to become thoroughly familiar with the content of the catalog. It has been prepared with your success in mind!

Accedited by

Accrediting Commission for Community and Junior Colleges of the
Western Association of Schools and Colleges
10 Commercial Boulevard, Ste. 204
Novato, CA 94949
(415) 506-0234
an institutional accrediting body recognized by the Commission on Recognition of
Postsecondary Accreditation and the U.S. Department of Education

American Welding Society
California Association of Alcohol and Drug Educators
California Board of Registered Nursing
California Board of Vocational Nurse and Psychiatric Examiners
Commission on Accreditation of Allied Health Education Programs
Commission on Peace Officers Standards and Training
California State Department of Education
National Academy of Early Childhood Programs

A member of

Accrediting Commission for Community and Junior Colleges (NCCJC)
American Association of Community Colleges (AACJ)
Association of California Community College Administrators
Association of Community College Trustees
California Association of Community Colleges
California Community Colleges Academic Senate
Consortium for North American Higher Education Collaboration (CONAHEC)
Community College League of California (CCLC)
Council for Higher Education Accreditation
Hispanic Association of Colleges and Universities (HACU)
Imperial County School Boards' Association
Imperial County Chambers' of Commerce
Imperial Valley Economic Development Corporation (IVEDC)
Inland Valley Trustee and CEO Association
International Consortium for Educational and Economic Development (ICEED)
National Institute for Staff and Organizational Development (NISOD)
San Diego and Imperial Counties Community Colleges Association (SDICCCA)
Workforce Investment Board (WIB)

Approved for

The Veterans Administration

Disclaimer

Imperial Valley College is committed to providing students with the most accurate, current information available regarding the College's programs, courses, regualtions, and policies. However, there may be times when course changes concerning prerequisites, content hours, or units of credit are determined after publication of the catalog or when district policy or state regulations dictate a change in current practice. When such a circumstance arises, every effort will be made through the college website (www.imperial.edu), class schedules, public media, and at the time of registration to notify students of any changes in the course descriptions or college policies, as presented herein. Students with questions or concerns about a specific course need to contact a counselor at (760) 355-6246 or contact the appropriate division office as noted with the "List of Courses." Questions or concerns regarding standard practice and process can be directed to the Office of Admissions and Records at (760) 355-6201.

TABLE OF CONTENTS

President's Message 4
Board of Trustees 4
Administration 4
Instructional Divisions 4
2009-2010 Academic Calendar 5
History of Imperial Valley College 6
Facilities 6
Educational Master Plan 8
Accreditation 8
Mission Statement 8
Institutional Student Learning Outcomes 8
Academic Freedom Statement 8
Types of Courses and Programs 8
- Attendance of Local High School Students 9
- Administration of Justice Credit for Administration of Justice Coursework 9
- Apprenticeship Training Programs 10
- Community Education (Noncredit and Fee Based Courses) 10
- Disabled Student Programs and Services 10
- Distance Education: Online Courses 10
- Exercise Science, Wellness and Sport 10
- Extended Campuses 10
- Developmental Preschool and Infant Toddler Center 11
- Work Experience 11

Degrees 11
Scholastic Honors 11
Financial Aid 11
Expenses, Unpaid Financial Obligations 12
Fees, Explanation of Fees 12
Tuition 12
Other Fees/Charges 12
Refund Policy 12
Parking Permit 12
Counseling Services 12
Student Activities 12
Bookstore and College Center 12
Athletics 12
Learning and Tutoring Services 13
Assessment 13
Matriculation Process 13
Admission 13
Transcripts, Foreign Transcripts 13
Family Educational Rights and Privacy (FERPA) 14
Nondiscrimination and Sexual Harassment Policy 15
Residence Requirements 15
Enrollment Limitations 16
Proficiency Enrollment 17
Short-term Classes 17
Registration 17
Grading System 17
Transfer Credit 18
Credit for Advanced Placement Examinations (AP) 18
Credit for Correspondence and Extension Courses 20
Credit from Foreign Institutions 20
Credit for Military Service 20
Credit for Upper Division Course Work 20
Credit for Regional Occupational Program Courses 20
Credit by Examination 20
Academic Renewal 21
Probation, Dismissal, Reinstatement 21
Cheating and Plagiarism 22
Student Conduct 22
Standards of Student Conduct 22
Student Complaint Policy 22
Campus Regulations 24
Petition and Hearing Process 24
Attendance and Automatic Withdrawals 24
Voluntary Withdrawal 24
Veteran Student Applicants 24
Catalog Rights (Changes in the Catalog) 25
Graduation Requirements 26
- Associate Degrees 26

Transfer Preparation 29
- California State University 29
- California State University General Education Breadth Requirements 30
- Intersegmental General Education Transfer Curriculum (IGETC) 31

Vocational/Occupational Curricula (Applied Sciences) 33
- Apprenticeship Training Programs 33
- Certificates 33

Prerequisite, Corequisite, Advisories on Recommended Preparation and Limitations on Enrollment 33
- Challenge Process 34

Summer Session 34
Courses of Instruction 35
- Course Numbering 35
- Common Courses 35

Apprenticeship Training Programs 117
College Programs
- Majors 121
- Certificates 140

Mathematics Prerequisite Chart 150
Nursing Appendix 151
Faculty and Administration 161
Emeritus Faculty 167
Campus Map and Directory 168
Index 169

Imperial Valley College Welcomes You

The catalog you are about to explore is your roadmap to college success at Imperial Valley College. If you spend time with the catalog you will find information that will guide you through your educational journey. You will find the educational outcomes you can expect when you complete a certificate or degree at IVC. All the information you need to map your journey should that journey be an occupational degree or preparation to transfer to a university is included in the 2008-2009 Imperial Valley College Catalog. If you are looking for information that will assist you with college finances, registration and admissions, academic advising and career and personal counseling can be found in between the covers of the catalog. You will discover regulations and policies that will make decisions you make while attending IVC easier. If you're looking for the requirements to transfer to a university, or the courses required for a vocational degree that information is included in this catalog.

The Imperial Valley Community College Board of Trustees, and the administration, faculty and staff they employ are dedicated to your success. The partnership between the college and you is meant to assist you in achieving your educational, career and life goals. You will find excellent curriculum, outstanding instructors, dedicated student service professionals, and a professional staff all committed to enhancing learning at Imperial Valley College. However, to complete your educational journey will take a commitment to being a learner. To get to your goal will require effective time management, financial planning, balancing life's challenges, and a commitment to outstanding effort to learning. Successful students get to their goals by working hard at education. The Board of Trustees, employees, and volunteers at IVC will work hard and well to help you succeed, and in return we will ask the same of you as a student. Together the partnership will be successful.

Convenient education is a commitment of the Board of Trustees. Our main campus on Aten Road in Imperial, our convenient centers throughout Imperial County, and our online education program are available to you in order to make your academic journey accessible to you and to fit in with your lifestyle. Community college education in the Imperial Valley is affordable, leads to successful transfer students who make up one-half of the graduates at public universities and colleges in the State of California, and provides the Imperial Valley with a highly qualified and competent workforce.

Welcome to IVC, and while you are here, please take time to get to know our friendly staff, faculty, and administrators while you attend your classes on our beautiful main campus and our effective centers. Please read the catalog and map your journey to college success.

Ed Gould, Ed.D.
Superintendent/President

Board of Trustees

Louis Wong
District 1
Calexico Unified
School District

Jerry Hart
District 2
Imperial Unified
School District

Norma Sierra Galindo
Clerk of the Board
District 3
Holtville Unified
School District

Rudy Cardenas, Jr.
District 4
Brawley Union
High School District

Rebecca L. Ramirez
District 5
San Pasqual Unified
School District

Carlos Acuña
Board President
District 6
Central Union
High School District

Romualdo Medina
District 7
Calipatria Unified
School District

District Administration

Superintendent/President	Dr. Ed Gould
Vice President for Academic Services	Kathy Berry
Vice President for Student Services	Dr. Victor Jaime
Vice President for Business Services	John Lau
Dean of Applied Sciences	Gonzalo Huerta
Dean of Financial Assistance	Jan Magno
Dean of Extended Campus	Efrain Silva
Dean of Technology	Dr. Robin Ying
Associate Dean of Nursing	Tina Aguirre
Associate Dean of Disabled Student Programs & Services	Ted Ceasar
Associate Dean of Human Resources	Travis Gregory
Associate Dean of Student Affairs	Sergio Lopez
Associate Dean of Learning Services	Dr. Taylor Ruhl

Instructional Divisions

Behavioral Science/Social Science	Suzanne Gretz, Chair
Business	Valerie Rodgers, Chair
English	David Zielinski, Chair
Exercise Science/Wellness/Sport	David Drury, Chair
Humanities	Dr. Melani Guinn, Chair
Industrial Technology	Jose Lopez, Chair
Nursing, Education/Health Technologies	Tina Aguirre, Chair
Science/Math/Engineering	Dr. Lianna Zhao, Chair

IMPERIAL VALLEY COLLEGE
2008-2009 CALENDAR

2009

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

2010

January	1	Friday	Holiday (New Year's Day)/Winter Recess, Campus Closed
	4–6	Monday - Wednesday	No Classes, Campus Open
	7	Thursday	Winter Intersession 2010 Begins
	18	Monday	Holiday (Martin Luther King's Birthday), Campus Closed
February	9	Tuesday	Winter Intersession 2010 Ends/Final Exams
	12	Friday	Holiday (Abrahams Lincoln's Birthday), Campus Closed
	15	Monday	Holiday (President's Day), Campus Closed
	16	Tuesday	Spring Semester 2010 Begins
April	5–10	Monday - Saturday	Spring Recess, Campus Closed
May	31	Monday	Holiday (Memorial Day), Campus Closed
June	5–11	Saturday - Friday	Final Exams, Spring 2010 Semester
	12	Saturday	Graduation (Non-Instructional Faculty Service Day)
	21	Monday	Summer Session 2010 Begins
July	5	Monday	Holiday (Independence Day), Campus Closed
	29	Thursday	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 to plan the new buildings, and a 160-acre site, which met the criteria, recommended by the Citizens' Committee was selected for the new campus.

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

The following Superintendent/Presidents have served the District and College over the last fifty years:

Milo P. Johnson	1960-1963
Dr. Terrel Spencer	1963-1978
Dr. Dan Angel	1978-1981
Dr. John A. DePaoli	1981-1995
Dr. Gilbert M. Dominguez	1996-2002
Dr. Paul Pai	2003-2007
Dr. Ed Gould	2008-Present

FACILITIES

The original Imperial Valley College main campus, which opened in September 1962, consisted of library, science laboratories, fine arts rooms, student activities building, academic classrooms, administration and faculty offices, social science rooms, physical education shower and locker rooms, and agricultural education classrooms and shop.

A steady growth pattern began in April 1967 with the addition of the multipurpose building. The building was designed to house sporting and theater events, and was comparable to any such community college structure in the State. Three other projects followed which were completed through community donations: the Janey Jackson Memorial Fountain, 1969; the renovation of the Holtville Train Depot, located in the cactus garden, 1971; and the Meyer Center for Business and Commerce. The Meyer Center was dedicated February 20, 1972, at ceremonies commemorating the 50th anniversary of the Imperial Community College District. Also recognized the same day was the opening of an Archaeological Museum at 442 Main Street in El Centro in buildings donated by Howard P. Meyer, and the new agriculture-welding complex. The museum was later named the Barker Museum, honoring Michael Barker (deceased), who was an IVC archaeology instructor.

The museum, now named the Imperial Valley College Desert Museum, has since been relocated to the Imperial County community of Ocotillo, which is in the middle of some of the Imperial Valley's precious archeological resources, and is now owned and operated by a separate nonprofit foundation.

Other building projects have included:

- Associated Students Activities Building, 1971;
- Spencer Library Media Center, in 1975, named in honor of the late Terrel Spencer, President Emeritus;

- 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 Business and Commerce; and computerizing the energy control system.

In May 1999, the Spencer Library Media Center opened a 4,200 square foot addition funded by the State of California that houses the Learning Center and Tutoring Center. The $1,000,000 project included a complete renovation of the existing library.

The Reading/Writing Lab began operating from the Spencer Library and in 1975 it moved to the 1600 building. In 1999, the building was dedicated as the Jean Raulston Reading/Writing Lab. In April 2002, the Jean Raulston Reading/Writing Lab was relocated to the newly constructed 2600 building, sharing space there with the Pauline Benoit Rice Language Lab. The late Pauline Benoit Rice was the first French professor hired in 1963 and she also taught Spanish and Humanities for 26 years. She was instrumental in redesigning and enlarging the Language Lab and expanded its services to include ESL. The late Jean Raulston was an English professor who served IVC for 17 years, and was instrumental in development of the Reading and Writing Lab programs.

The Childhood Education Center celebrated its grand opening on October 28, 1991 and the Infant Care Center was built and opened for service in June of 1999. These facilities are Lab-type schools being used to provide higher educational opportunities for IVC students and train future Early Childhood and Multi-Subject Teachers in the field of Early Child Education.

The gymnasium was dedicated on May 26, 1996 as the John A. "Buck" DePaoli Sports Complex in honor of the late John A. "Buck" DePaoli who served IVC for 30 years, of which 14 years were as Superintendent/President.

The IVC Desert Museum property is located in Ocotillo, California just south of Interstate 8 and can be seen from the highway. The IVC Museum rest area and landscaping were completed in 1999. The project was funded through a CalTrans grant. Construction of the museum building began in September of 2000. The Museum Society has funded construction, but is pending completion. On January 25, 2006, the California Cultural & Historical Endowment approved and awarded a grant of $244,642 to the IVC Desert Museum for its completion. In fall 2006, a federal transportation bill sponsored by Congressman Bob Filner provided $800,000 to improve the drop off from Interstate 8 to the museum and to address transportation-related issues of the area around the museum.

The Ray White Tool Distribution Center aids the Industrial Technology tool and equipment needs. At the fall 2000 grand opening ,Ray White was honored as a retired and long-term Automotive Technology Instructor who served IVC from 1964-1998.

A General Obligation Bond, Measure "L", was passed in November 2004 by Imperial County voters to authorize Imperial Community College District a total of $58.6 Million in bonds. The first sale of $24.5 Million worth of bonds was successful in January 2005. The Bond Measure "L" building project includes: (1) a 67,000 square foot two-story Science Building, (2) a 52,000 square foot Technology Building, (3) a 38,000 square foot Career Technical Building, and (4) modernization and maintenance of the campus.

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 instructional and support services areas is outlined in the Master Plan. Please contact the President's Office at (760) 355-6219 for more information.

ACCREDITATION

Imperial Valley College is officially accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, which is recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education; American Welding Society; California Association of Alcohol and Drug Educators; California Board of Registered Nursing; California Board of Vocational Nurse and Psychiatric Examiners; Commission on Accreditation of Allied Health Education Programs; Commission on Peace Officers Standards and Training, California State Department of Education; and National Academy of Early Childhood Programs.

Courses paralleling university level work are accepted on a transfer basis by the University of California, the California State University system and by other universities and colleges. Accreditation reports are available and may be reviewed at the office of the Superintendent/President.

CAMPUS LOCATION

Imperial Valley College is located in California's southernmost county, Imperial County, which borders both Arizona and Mexico. Supported by an extensive and highly efficient below sea level irrigation system, Imperial County ranks among the top 10 agricultural counties in the nation. Total agricultural production value annually exceeds $1 billion. The Imperial County's fertile soil and mild climate allow farmers to enjoy year-round planting, cultivation and harvest. More than 580,000 acres of Imperial Valley land is farmed, producing many field and vegetable crops. The mild, delightful winters have made the region attractive to tourists and helped it to become an outstanding recreational region as well. It is also the winter training headquarters for the Navy's Flight Demonstration Squadron, the Blue Angels.

The Imperial Valley College campus is located on a 160-acre site at the intersection of Highway 111 and Aten Road, in Imperial, California. This location is in the heart of Imperial County and is within reasonable commuting distance of all of the cities in the Valley. There are also extended campus centers in the cities of El Centro, Brawley and Calexico.

MISSION

The mission of Imperial Valley College is to foster excellence in education that challenges students of every background to develop their intellect, character, and abilities; to assist students in achieving their educational and career goals; and to be responsive to the greater community.

INSTITUTIONAL STUDENT LEARNING OUTCOMES

The graduates of Imperial Valley College will demonstrate communication skills, critical thinking skills, personal responsibility, information literacy, and global awareness as a result of their educational experience at this institution.

ACADEMIC FREEDOM STATEMENT

The common good of society depends upon the search for knowledge and its free exposition. Academic freedom is essential to both these purposes and is the right of reasonable exercise of civil liberties and responsibilities in an academic setting. As such it protects each person's freedom to express opinions both inside and outside the classroom, to practice one's profession as teacher and scholar, librarian, or counselor, to carry out such scholarly and teaching activities as one believes will contribute to and disseminate knowledge, to express and disseminate the results of scholarly activities in a reasonable manner, and to select, acquire, disseminate and use documents in the exercise of one's professional responsibilities, all without interference and all with due and proper regard for the academic freedom of others. Academic freedom does not require neutrality, but rather makes commitment possible. However, academic freedom does not confer legal immunity, nor does it diminish the obligations of practitioners to meet their duties, their responsibilities, and their scholarly obligations to base research and teaching on an honest search for knowledge.

TYPES OF COURSES AND PROGRAMS

In order that Imperial Valley College may achieve its goal of serving all students who desire to learn, a variety of courses are offered. Some equip a student with job entry-level skills, and other courses provide a general education for all students to assist them in living meaningful and productive lives in a complex society. Still other types of courses provide the basis for professional training offered by four-year colleges and universities. Regardless of the interests of the students, the first two years of college work normally can be completed at Imperial Valley College. Thus, students have an opportunity to begin their advanced education while still residing at home. Not only can this opportunity be of great financial assistance, but it offers an excellent transition between the high school campus and the large, often impersonal, four-year college campus. The intimate, though scholarly, atmosphere of the college, the opportunity for each student to know instructors personally, and the chance to participate in the counseling program, all offer invaluable opportunities to the student. Not only can the student receive excellent personal assistance with work, but the opportunities for leadership in student affairs are increased.

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

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

These courses also offer a well-organized general education program to meet the needs of the individual who has only two years to devote to post-high school education. The community college program also includes courses of study which may be taken by adults who can demonstrate their ability to do college work but who have not had the opportunity to 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 perform specified limited support duties (traffic control, security parades and sporting events, report writing, evidence transportation, parking enforcement, and other duties) that are not likely to result in physical arrests, while supervised in the accessible vicinity by a Level I Reserve Officer or a full-time regular officer. The Level III Reserve Office may also transport prisoners without immediate supervision.

Reserve Officer Level II - Upon successful completion, the student is eligible to be hired for general law enforcement duties and will work under the immediate supervision of a peace officer who has completed P.O.S.T. Regular Basic Course. The Level II Reserve Officer may also perform limited support duties authorized for a Level III officer without immediate supervision.

Admission to the Program - Students entering the program must be at least 18 years old, be a U.S. citizen or have applied for U.S. citizenship, have no felony or domestic violence convictions, have a recent Department of Justice fingerprint clearance, and be in good physical and mental health.

P.O.S.T. mandated exams must be successfully completed.

ENGL 098 is required for AJ 141, Arrest and Firearms; AJ 142, Reserve Officer Level III; and AJ 144, Reserve Officer Level II.

Progression Policies - After successful completion of Reserve Officer Level III, the student may take Reserve Officer Level II. The student must complete each level with a grade of "C" or better to receive certification and/or continue to the next level.

All Reserve Officer classes require some Saturday meetings. Students are expected to schedule accordingly, as attendance and grades are strictly mandated.

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)

Community Education courses provide students with a new opportunity for learning experiences. Recognizing that education is a lifelong process of importance to all age groups, Imperial Valley College provides educational opportunities in the areas of non-credit education and community services.

Non-Credit

Non-credit education is an alternative instructional delivery system. It increases the access for students with diverse backgrounds. Non-credit instruction provides opportunities for students to improve their earning power, literacy skills, and access to higher education. Non-credit courses are designed to provide life-long learning opportunities in three primary instructional areas including:

1. Literacy: includes adult basic education and English as a Second Language.
2. Workforce Preparation: includes short-term career technical education.
3. Family and Community Education: includes instructional offerings in areas that provide family, health, and life skill development

Non-credit courses are open to California residents over the age of 18 and are free. See the current Imperial Valley College Class Schedule for non-credit courses or go online at **www.imperial.edu/community.**

Community Services

Community service classes are offered as fee-based courses in areas of public and community interest including on-line classes. Community service classes include traffic school, motorcycle safety, foreign language, computers and other general areas of interest. Community service classes are open to everyone and are supported by class fees. See the current Imperial Valley College Class Schedule for community service courses or go online at **www.imperial.edu/community**.

5. Disabled Student Programs and Services (DSPS)

Students with disabilities at Imperial Valley College are eligible for accommodations related to their disability under Section 504 of the Rehabilitation Act and the Americans with Disabilities Act. Services are provided to students with mobility, visual, hearing, speech, and orthopedic impairments, learning disabilities, psychological disabilities, Acquired Brain Injury, and other health impairments. Services are provided on an individual basis and may include reader services, note taking, tutoring, counseling, sign language interpreting, priority registration, learning disability assessment, and adapted computer instruction.

6. Distance Education: Online Courses

As an alternative to the traditional classroom environment, the Distance Education program at Imperial Valley College offers students options and opportunities to earn college credits by taking classes online or online and on-campus (hybrid) classes. Online courses are delivered, wholly or partially, via the Internet. Students complete course work using a course management system (CMS), which includes tools such as e-mail, message boards, chat rooms, and multimedia presentations. Students interested in online classes should have access to a computer and be comfortable navigating the Internet. Computers are available in the library and various other labs on the main campus and on our extended campuses in El Centro, Calexico, and Brawley. Students enroll in online courses through the regular registration process. Fees and academic credits are the same as on-campus traditional classes. Consult the Class Schedule for additional details.

7. Exercise Science, Wellness, and Sport

IVC strongly believes in the efficacy of health education for all despite age, sex, or physical condition, a class is available and appropriate to the physical performance level of each student.

Exemptions may be granted for:

- Physical condition (medical excuse required).

Upon petitioning for graduation, a student must show a minimum proficiency in the following:

- Successful completion of PE 100 plus one elective PE activity unit (3 units required).

Students in physical education activity classes are required to dress appropriately. Appropriate dress for activity classes includes tennis shoes, shorts, sweat pants or jogging apparel, and tee shirts or a similar top for vigorous activity

8. Extended Campuses

Imperial Valley College's extended campus program provides Imperial County residents a practical and convenient alternative for taking college courses for credit, non-credit, and community service classes. The system is operated through a network of two comprehensive centers located in El Centro, and Calexico. Classes are also offered at other community locations within the county. Classes are offered in the daytime, evenings, and weekends, and are taught by full and part-time faculty.

Each comprehensive center offers a full range of academic and student support services including academic counseling, financial aid, business services, transcripts, computer labs, and internet access.

The mission of the Extended Campus is to provide comprehensive, quality educational programs and personalized services in strategic locations within the county, in support of Imperial Valley College's mission and goals.

9. **Developmental Preschool & Infant/Toddler Centers**
   The Preschool and Infant/Toddler Centers serve as demonstration labs for students wanting to work in the field of Early Childhood. The Preschool (children two to five years of age) and Infant/Toddler Center (newborn to two years) are located in buildings 2200 and 2300. Services are available to families who meet the California Department of Education qualifications for enrollment. Our centers are open Monday - Friday from 7:15 a.m. to 5:30 p.m. Breakfast, lunch and snack are provided through the California Child Care Food Program.

10. **Work Experience**
    Work Experience is a cooperative educational program between Imperial Valley College and community employers. The college provides the organization, the coordination of class facilities, and the personnel for the program. The employers provide places to work (workstations) and on-the-job training which has educational value for the students. The unit of credit earned may be used to meet some of the graduation requirements in selected programs.

DEGREES

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

The community college degree is awarded to a student who fulfills a two-year organized program of work, either occupational-vocational-technical or lower-division four-year college. A student who wishes to transfer to the upper division of a four-year college must satisfy the course, unit, and grade requirements of the college he/she wishes to enter.

SCHOLASTIC HONORS

Graduation Honors

"With Distinction" is granted to those graduates who, in the course of their entire college work, have achieved a grade point average of 3.5 or higher in degree applicable courses.

"With Honors" is granted to those graduates who achieve a grade point average of 3.0 in their college work in degree applicable courses.

President's Honor List

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

FINANCIAL AID

Financial Aid exists to help student who might otherwise be unable to complete their education because of financial problems. This aid comes in the form of grants, scholarships, work study and book loans.

Financial aid funds are administered in accordance with a nationally established policy of financial assistance for education. The basis of the policy is that students and their parents have the primary responsibility for meeting educational costs. The amount of the expected contribution from students and their family is determined by careful analysis of family financial strength, taking into consideration net income, number of dependents, allowable expenses, indebtedness and assets. The US Congress has established procedures which are used in making an evaluation of how much families can be expected to contribute.

The Free Application for Federal Student Aid (FAFSA) is available online at www.fafsa.ed.gov. The filing period for the next academic year begins January 1 of each year. Students who wish to receive aid in the fall should have their applications complete and their verification documents submitted by at least 3 months prior to enrollment.

Grants form the basis of the financial aid available at Imperial Valley College. Grants, unlike loans, do not have to be paid back. Through the single FAFSA application, students will be considered for eligibility for Pell, Academic Competitiveness and FSEOG Grants (federal funds), Cal Grants B and C (state funds), Work Study and Board of Governors Fee Waivers (state waiver of enrollment fees). Scholarship and book loan applications are also available in the Financial Aid Office.

Imperial Valley College does not currently participate in any of the federal student loan programs, however, general information regarding private education loans is available upon request.

Satisfactory Academic Progress: Continued eligibility for financial aid at Imperial Valley College is dependent upon academic success. Students must maintain a 2.0 GPA or better and complete at least 70% of all coursework attempted. Failure to meet this standard will result in the loss of all federal and state aid. The BOG Fee Waiver is not subject to this academic progress standard.

Financial Aid Repayment: Federal law requires that all students who receive federal Title IV aid and leave school before completing 60% of the term will be required to pay back some or all of the aid received. Detailed information regarding the return of federal aid is available in the IVC Financial Aid Office or on the college website.

NEED HELP TO PAY FOR COLLEGE?

The Imperial Valley College Foundation offers numerous scholarships to students throughout the school year.

Please contact the Financial Aid Office for a current list of all the scholarships that are available.

IMPERIAL VALLEY COLLEGE FOUNDATION EST. 1964

Imperial Valley College Foundation
P.O. Box 158 • Imperial, CA 92251
(760) 351-8900

EXPENSES

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.

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 advance notice by the State of California.*

#Students enrolled solely in off-campus classes are not required to pay the parking fee.

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.

COUNSELING SERVICES

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. Counseling services are provided by professional counselors who are well-skilled and trained in the areas of academic, vocational, and personal counseling.

The Counseling Center is open between the hours of 8:00 a.m. and 7:00 p.m., Monday through Thursday, and 8:00 a.m. and 5:00 p.m. on Friday. A Transfer and Career Center, located within the Counseling Center, has an extensive reference library of catalogs from various colleges and universities and resource materials on vocational and career choices.

Although counselors assist in long-range planning and in checking specific requirements, **THE RESPONSIBILITY FOR MEETING GRADUATION REQUIREMENTS OR REQUIREMENTS FOR TRANSFER TO OTHER COLLEGES OR UNIVERSITIES MUST BE ASSUMED BY EACH STUDENT**. For assistance and/or more information please come to the Counseling Center, Bldg. 100, (760) 355-6543; or the Extended Campuses Centers (Calexico 768-9740; or El Centro 353-2180).

STUDENT ACTIVITIES

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

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

BOOKSTORE AND COLLEGE CENTER

The college bookstore is maintained by the district through a lease arrangement with a private company. All college textbooks and necessary supplies are available. The College Center building contains a snack and coffee bar that sells refreshments and meals to students, staff and the general public.

ATHLETICS

Intercollegiate competition is held in a variety of sports. IVC competes in the Pacific Coast Conference. The Pacific Coast Conference includes Grossmont, Mira Costa, Palomar, San Diego City, San Diego Mesa, San Diego Miramar, and Southwestern Colleges.

LEARNING AND TUTORING SERVICES

The Learning and Tutoring Center provides services to both Imperial Valley College students and faculty. The Learning and Tutoring Center provides comprehensive learning assistance programs through tutorial programs, workshops, and test proctoring. Services are available during daytime and evening hours.

The tutorial program provides free tutoring for a large variety of courses to all students currently enrolled at IVC. The primary goal of the program is to encourage and assist students in the development of their potential as independent learners. The tutorial program provides individual and group tutoring, ESL conversation classes, individual and group study rooms, study skills and workshops, computer terminals, and television sets equipped with VCR and DVD.

Tutoring is provided by appointment and walk-in basis. The tutors are students who have previously excelled in their own coursework and have the recommendation of their instructor. IVC faculty members also form part of our tutors.

ASSESSMENT

It is the policy of Imperial Valley College that new students seeking to enroll in their initial reading, writing, and/or math classes be assessed. Students may be exempt from testing if they submit scores from recently taken tests which articulate with those used by Imperial Valley College. No portion of the assessment process is used to exclude students from admission to the college.

MATRICULATION PROCESS

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

* Helping students to succeed in their college careers;
* Assisting students in making decisions based on accurate information;
* Offering services and resources for proper course selection;
* Providing an opportunity to develop a Student Educational Plan (SEP).

Students are responsible for:

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

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

REGULATIONS

ADMISSION

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

All students are admitted under one of the following classifications:

1. High school graduates or equivalent certificates (General Educational Development or California High School Proficiency Examination)

2. Nongraduates of high school who are eighteen years of age and no longer enrolled in high school.

3. High school students who are recommended by the high school principal for one to nine units of work. A Special Student Application for Concurrent Enrollment must be submitted. Specific requirements for admission and application procedures are included with that form.

4. College transfers who submit official transcripts may be granted advanced standing.

5. International students on F-1 student visas may be admitted. The International Student Application Packet must be completed and submitted to the Admissions and Records Office by June 1 for Fall Semester admission, and December 10 for Spring Semester. Students must have a local sponsor and provide documentation that sufficient funding is available for at least one year of tuition and fees as well as living expenses.

TRANSCRIPTS

The first two official transcripts in a student's lifetime are free. A fee of $4.00 will be charged for each subsequent copy. Emergency or rush service is available for an additional fee of $10.00 per transcript. All outstanding financial and other obligations to the College must be met prior to the issuance of transcripts. Instructions and the form for requesting transcripts are available on the College website and from the Admissions and Records Office.

FOREIGN TRANSCRIPTS

Imperial Valley College does not evaluate foreign transcripts.
A student may request the foreign transcript be evaluated by:

International Education Research Foundation, Inc.
P.O. Box 66940
Los Angeles, CA 90066
www.ierf.org

By student petition, Imperial Valley College may accept lower division course work recommended by I. E. R. F. when appropriate for associate degree consideration only.

FAMILY EDUCATIONAL RIGHTS AND PRIVACY (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 shall, in closed session with the student and employee who recorded the information in question, if presently employed by the District, determine whether to sustain or deny the allegation(s). If the Board sustains any or all of the allegations, it shall order the immediate correction or removal and destruction of the information. The decision of the Board shall be final.

Records of these administrative proceedings shall be maintained in a confidential manner and shall be destroyed one year after the decision of the Board, unless the student initiates legal proceedings relative to the disputed information within the prescribed period.

If the decision of the Board is unfavorable to students, or students accept an unfavorable decision by the Superintendent/President, they shall have the right to submit a written statement of their objections which shall become part of their student record until such time as the information to which the objection is made is corrected or removed.

Disclosure of Education Records

The District may permit access to student records to any person for whom the student has executed written consent specifying the records to be released and identifying the party or class of parties to whom the records may be released.

The District may not permit access to student records to any person without the written consent of the student or under judicial order except:

1. To officials and employees of the District who have a legitimate educational interest to inspect a record.

   <u>A school official is:</u>

   A person employed by the District in an administrative, supervisory, academic, research, support staff, or security position;

   A person elected to the Board of Trustees;

   A student government officer conducting student elections;

   A person employed by or under contract to the District to perform a special task, such as the attorney or auditor.

   <u>School officials have a legitimate educational interest if they are:</u>

   Performing a task that is specified in their position description or by a contract agreement;

   Performing a task related to a student's education;

   Performing a task related to the discipline of a student;

   Providing a service or benefit relating to the student such as health care, counseling, job placement or financial aid.

2. To officials of another school or school system, upon request, in which a student seeks, intends, or is directed to enroll, including local, county or state correctional facilities where educational programs are provided;

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.

NONDISCRIMINATION & SEXUAL HARRASSMENT 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, or because he or she is perceived to have one or more of those characteristics.

All forms of harassment are contrary to basic standards of conduct between individuals and are prohibited by state and federal law, as well as this policy, and will not be tolerated. The District is committed to providing an academic and work environment that respects the dignity of individuals and groups. The District shall be free of sexual harassment and all forms of sexual intimidation and exploitation.

The District seeks to foster an environment in which all employees and students feel free to report incidents of harassment without fear of retaliation or reprisal. Therefore, the District also strictly prohibits retaliation against any individual for filing a complaint of harassment or for participating in a harassment investigation. Such conduct is illegal and constitutes a violation of this policy.

For more information please refer to the California Department of Fair Employment and Housing Website, www.dfeh.ca.gov, or the U.S. Equal Employment Opportunity Commission Website, www.eeoc.gov.

Limited English speaking students who are otherwise eligible, will not be excluded from any vocational education program.

The coordinator for Imperial Valley College's compliance with Section 504 of the Rehabilitation Act of 1973 is Mr. Travis Gregory, P.O. Box 158, Imperial, CA 92251, (760) 352-8320, Ext. 6212, TTY (760) 355-4174. The Title IX officers for Imperial Valley College are Mr. Russell Lavery, Ext. 6202, and Ms. Olga Artechi, Ext. 6264, P.O. Box 158, Imperial, CA 92251, (760) 352-8320.

RESIDENCE REQUIREMENTS

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

Each person enrolled in or applying for admission to a California Community College is, for the purposes of admission and tuition, classified as a "resident" or a "nonresident".

Students classified as a "resident" will be admitted without payment of nonresident tuition. Students classified as "nonresident" will be required to pay tuition in an amount set by the Governing Board.

1. A "**resident**" is a person who has resided legally within California for at least one year and a day prior to the term of enrollment, and is eligible to establish domicile in accordance with California Education Code.

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.

The "**Residence Determination Date**" shall be that date immediately preceding the first day of class for the term for which residence classification is sought.

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

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

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

2. There can be only one residence.

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

4. The residence of the parent with whom an unmarried minor child maintains his/her place of abode is the residence of the unmarried minor child. When the minor lives with neither parent, his/her residence is that of the parent with whom he/she maintained his/her last place of abode. The minor may establish his/her residence when both parents are deceased and a legal guardian has not been appointed.

5. The residence of an unmarried minor, who has a parent living, cannot be changed by his/her own act, by the appointment of a legal guardian, or by relinquishment of a parents' right of control, unless the student qualifies for the self-supporting exception.

Exceptions to the determination of residency as set forth above may be applied to certain factual situations. If students would otherwise be classified as nonresidents, but fit within one of the following exceptions, they may be granted residency.

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

2. Students who have not been adults for more than one year prior to the resident determination date, may add their pre 18-years-of-age residence to their post-18-years-of-age residence to obtain the durational requirements.

3. Effective January 1, 1995, students who are a member of the armed forces of the United States stationed in California on active duty, except those assigned to California for educational purposes, are exempt from nonresident tuition. The student must be on active duty on the residence determination date.

Dependents of an active duty member of the military who are stationed in California are accorded the exemption from nonresident fees.

4. Students should contact the Admissions and Records office for a complete listing of Visa types which qualify holders to establish residency for tuition and fees purposes.

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

6. A student who is an apprentice within the meaning of Section 3077 of the Labor Code, is entitled to resident classification.

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

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

No one factor is decisive; however, the institution may look for certain objective manifestations of subjective intent on the part of one asserting that residence status has been established, or has been maintained in spite of an absence from the state.

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

The burden is on the student to demonstrate clearly both physical presence in California and intent to establish California residence.

A student who does not answer all of the questions on the Residence Questionnaire or on the Supplemental Residence Questionnaire, if one is used, may be classified as a nonresident.

ENROLLMENT LIMITATIONS

A regular full-time program is twelve (12) units. An average of 15 to 16 units must be taken each semester in order to graduate in two years or four semesters. A regular full-time program for summer session or winter intersession is six (6) units.

The maximum load allowed for students during the fall and spring semesters is nineteen (19) units, including an activity course in physical education. The maximum load allowed for students during the summer session and winter intersession is nine (9) units. Exceptions to this rule will be made by special permission of the administration (through the petition process) when there is clear evidence of successful scholastic performance.

PROFICIENCY ENROLLMENT

Once a student has completed a proficiency in a subject area with a satisfactory grade, he/she may not take a lower proficiency level in that subject area. For example: A student cannot enroll in ENGL 099 after having successfully completed ENGL 101. (This does not apply to vocational refresher courses.)

SHORT-TERM CLASSES

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

1. Students may enroll in short-term classes up to one-tenth of the way through the class.

2. The last day to drop a short-term class with a "W" grade is seventy-five percent of the way through the class.

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

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

REGISTRATION

Please refer to the current Class Schedule for information and instructions on class registration.

GRADING SYSTEM

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

Grades	Definition	Grade Points
A	Excellent	4
B	Good	3
C	Satisfactory	2
D	Less than Satisfactory	1
F	Failing	0
P	Pass (at least satisfactory - C or higher) Not included in GPA (*Formerly CR prior to Fall Semester, 2009)*	
NP	No Pass (less than satisfactory - D or F) Not included in GPA (*Formerly NC prior to Fall Semester, 2009)*	

P: Some courses may be taken for P/NP grades only; others may be designated by the appropriate divisions to be taken for either standard letter grades or for grades of P/NP. Students must select this option using the online registration system by the deadline to register for the course.

1. P will reflect the student has earned the equivalent of a grade of C or higher.
2. NP will reflect the student has earned the equivalent of a grade of D or F.
3. P grades are permissible in the student's major field if permitted or allowed by the division or department.
4. Students applying for P/NP grading must adhere to the same class standards or regulations as a student receiving a standard letter grade.
5. If the course in which a P grade is earned is a prerequisite requirement for another course, the grade of P will satisfy the prerequisite requirement.
6. A maximum of 16 units taken on a P/NP basis may be applied toward a degree.

Grade Point Averaging

The total number of units earned for courses in which a student has earned a grade of A is multiplied by 4. The same type of calculation is done for units earned of B, C, D, and F. The grade point average is then calculated by dividing the total number of grade points earned by the total number of units attempted in which grades of A, B, C, D, and F were assigned.

Grades for repeated courses will be included or excluded as indicated in the Course Repetition policies.

In calculating students' degree applicable grade point averages, grades earned in non-degree applicable courses shall not be included.

Non-Evaluative Symbols

I	Incomplete
IP	In Progress
RD	Report Delayed
W	Withdrawal
MW	Military Withdrawal

I: An incomplete contract may be negotiated for UNFINISHED WORK, OTHERWISE PASSING indicating that because of medical or other sufficient reason an important assignment such as a term paper, final examination, or experiment is missing.

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

Incomplete symbols should be assigned for academic work under unforeseeable, emergency and justifiable reasons at the end of the term.

IP: In progress "IP" symbol is used only when a course extends beyond the normal end of the academic term. A grade will be assigned at the end of the course.

RD: The RD symbol may be assigned temporarily by the Admissions and Records Office when there is a delay in reporting grades due to circumstances beyond the control of the students.

W: Students may withdraw (drop) courses up to 75% of the term, or the length of the course if short-term. No notation will be made on students' records for drops completed prior to census for the course. Symbols of W shall be recorded for courses dropped on census day through the 75 percent date.

Instructors may drop students for excessive absences up to the 75% date.

Letter grades shall be assigned to students who are not dropped by the 75% date.

Administrative drops may be done after the 75% date for verified extenuating circumstances which are clearly beyond the control of the student such as documented cases of serious accident, illness, or death of an immediate family member.

Drop procedures for students will be established by the Admissions and Records Office and published in the Class Schedule each term.

MW: Military withdrawal occurs when students who are members of an active or reserve U.S. military service receive orders compelling a withdrawal from courses. The MW symbol will be assigned upon receipt of a copy of the student's official military orders.

Symbols of MW will not be used in the calculation of progress probation or dismissal.

Students will maintain "continuous enrollment" status for graduation requirements during their time of absence due to their military orders.

Refunds of fees paid, or reversal of fees still owed, will be made for the term in which military withdrawal occurs.

TRANSFER CREDIT

Imperial Valley College (IVC) grants credit for lower-division units earned at institutions of higher education regionally accredited by the Association of Schools and Colleges and/or that hold another accreditation recognized by the Council for Higher Education Accreditation (CHEA).

To be considered for transfer credit, students must request that official transcripts be forwarded directly to the Admissions and Records Office from each institution where courses were taken, or present an official transcript in an unopened envelope sealed by the college/university. Transcripts that have been opened by anyone other than an IVC official will not be considered official and will not be evaluated.

Students should arrange for official transcripts to be received as soon as possible after they decide to attend IVC. Financial aid will not be granted until official transcripts have been received from every college or university attended other than IVC. In addition, an official evaluation to determine applicability of courses to IVC degree or certificate requirements is essential for effective advisement.

Official transcripts from all institutions attended must be on file and evaluated by the Admissions and Records Office before students apply to receive a degree, certificate, or general education certification to a California university.

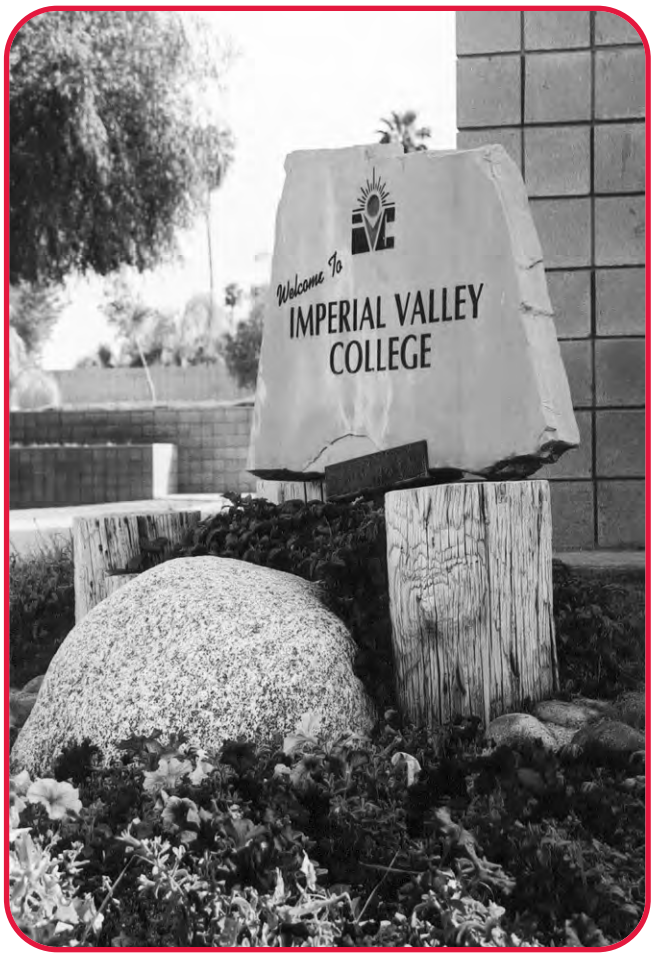
Questions regarding specific courses for which a student is seeking transfer credit should be addressed to the Counseling Center or Transfer Center at IVC.

Credit for Advanced Placement Examinations (AP)

Credit will be granted for minimum required scores on examinations of the Advanced Placement Program of the College Entrance Examination Board (CEEB) as listed below. Official transcripts sent directly from the CEEB to the Admissions and Records Office are required. Credit toward an IVC associate's degree (AA or AS) will be granted according to the chart below.

Credit will be granted only after students are enrolled in classes at IVC. After credit has been awarded, if students successfully complete the same course(s) for which they were granted AP credit, the AP credit will be removed from their transcript. Credit cannot be earned twice for the same course.

Credit for AP Exams differs with each college or university. Although IVC grants credit for AP Exams, there is no guarantee institutions to which students transfer will do the same. Students will need to have their official AP results re-evaluated by the institution to which they transfer.



IMPERIAL VALLEY COLLEGE (IVC) ADVANCED PLACEMENT (AP) CHART

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 EXAMINATION	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 institutions will be considered. These units will be applied toward IVC degree or certificate requirements as appropriate.

Credit from Foreign Institutions

tudents seeking evaluation of course work completed at a foreign post-secondary institution must provide a transcript and evaluation completed by an approved evaluation and translation service. Information regarding recommended evaluation service companies is available in the Counseling Center and the Admissions and Records Office.

To be considered for possible transfer credit students must complete the following steps:

1. Meet with a Counselor to review the documentation from the evaluation service. The Counselor will make an initial deter mination regarding whether any of the courses completed may apply to degree requirements at IVC.
2. If the Counselor determines one or more of the courses might apply to a degree at IVC, complete a petition requesting the Division Chair of each academic department involved evaluate the request. The Counselor will assist in the completion of the petition form and referral to the appropriate Division Chairperson(s).
3. Discuss the request for transfer credit with the Division Chair(s). He/she will sign the petition form indicating whether he/she agrees or disagrees with the request.
4. If the Division Chair agrees with the request that credit be granted, submit the petition, transcript and evaluation from the evaluation service to the Admissions and Records Office f or the final, official evaluation.

Courses completed at foreign institutions will not meet general education certification requirements for transfer to either of the California university systems, except to validate the foreign language portion of the certification for the University of California.

Credit for Military Service

Students who complete at least 180 days of active duty including basic training may receive credit for HE 100 (2 units) and PE 110 (2 units). Instructions for obtaining the credit will be provided by the Veterans Coordinator in the Financial Aid Office. A copy of the DD214 is required.

Up to a maximum of 12 additional units may be awarded for work completed successfully in military service schools beyond basic training as recommended by the American Council on Education in the Guide to the Evaluation of Educational Experiences in the Armed Services.

Students must provide a copy of the DD214 or military service school transcript with a petition for evaluation of military service.

A maximum of 16 units will be granted for military service including 2 each for HE 100 and PE 110, and up to 12 additional units for service schools/training completed.

Credit for Upper Division Course Work

Transfer credit for upper division courses completed at a four-year college or university will not be granted unless an equivalent course is offered at IVC. To be considered, students must complete a petitioning process requiring the recommendation of a counselor and the Division Chair of the appropriate academic subject area.

CREDIT FOR REGIONAL OCCUPATIONAL PROGRAM COURSES

Imperial Valley College can provide students with college credit toward the associate degree for completion of specific Regional Occupational Program (ROP) and high school courses which have been articulated with Imperial Valley College courses.

Disclaimer: The awarding of credit for ROP and high school courses is currently being reviewed statewide for compliance to new state regulations. Imperial Valley College is committed to providing students with the most accurate, current information available regarding the College's programs, courses, regulations, and policies. However, there may be times when changes concerning state regulations are determined after publication of the catalog, which may dictate a change in current practice. When such a circumstance arises, every effort will be made through the class schedules, public media, and at the time of registration to notify students of any changes in the course descriptions or college policies, as presented herein.

For specific articulation agreements please contact the Applied Sciences Office or the Counseling Center.

CREDIT BY EXAMINATION

The Board of Trustees of Imperial Valley College (IVC), in accordance with the provisions of ***Title 5, Section 55050 (IVC Board Policy BP 4235 7/20/04)***, authorizes the college to grant appropriate semester unit credit to any student who is currently enrolled and successfully passes an examination administered by an IVC faculty member or authorized personnel. A maximum of 25 units may be used toward graduation through this process. No more than 15 units per semester will be authorized.

Credit by Examination enables a student to receive academic credit by demonstrating mastery of subject matter, previous experience, and training or instruction equivalent to a specific Imperial Valley College course. Each academic division determines which course or courses that the "credit by examination" option may be used to earn academic credit and is responsible for developing and administering an appropriate comprehensive examination. It is the responsibility of the faculty in the discipline who normally teach the course to determine the nature and content of the examination.

Examinations will be comprehensive enough to reflect the appropriate depth and breadth of the material normally covered in the course for which credit is requested. The examination must clearly measure the student's mastery of the course content as listed in the Course Outline of Record. The examination may include oral, written, or skills tests, or a combination of all three, and will be sufficiently compre-

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 excluded.

Only courses completed at Imperial Valley College (IVC) may be academically renewed by this institution.

Grades of D which have been used to fulfill requirements for a degree or certificate already earned cannot be academically renewed.

Courses for which grades and units have been academically renewed will not be used to meet certificate or degree requirements.

Students may petition for academic renewal one time only; once granted, academic renewal may not be reversed.

Institutions to which students transfer may or may not honor academic renewal granted by IVC.

Requirements

1. Two or more years must have passed since the last grade requested for academic renewal was earned.
2. One of the following minimum cumulative GPAs must have been earned for all courses taken at all colleges or universities attended since the last grade requested was awarded. All grades and units (including repeats) earned between that term and the date of academic renewal will be used for unit and GPA calculation.

15 graded semester units* 3.00 GPA
20 graded semester units* 2.50 GPA
30 graded semester units* 2.00 GPA

*For Academic Renewal purposes "graded" units do not include marks of W, I, MW, or grades of CR, P, NC, NP.

PROBATION, DISMISSAL, REINSTATEMENT

Probation is a system of monitoring student progress in order to identify students who are experiencing difficulty in making satisfactory progress toward an appropriate educational objective, and providing special assistance to students in reassessing their educational objectives and guiding them to accomplish these goals. Students who are placed on probation will be identified as early as possible at the termination of each semester and will be referred to the Counseling Center.

Scholastic Probation

Students who have attempted 12 or more units at Imperial Valley College (IVC) as shown on their transcript will be placed on academic probation if the cumulative grade point average is below 2.00 for all grades earned at IVC.

Students will be removed from academic probation when their cumulative grade point average at IVC is 2.00 or higher.

Scholastic Dismissal

Students on Scholastic Probation will be dismissed if they earn a cumulative grade point average of less than 1.75 in all units attempted in each of three consecutive semesters of enrollment, excluding winter intersession and summer term.

Students who are dismissed after Spring Semester will not be allowed to take classes the following Fall Semester. Students who are dismissed after Fall Semester may be allowed to take classes in the following Spring Semester, if determination and notification of dismissal status has not been made by the end of the second week of classes. They will be required to meet with a counselor to develop a corrective plan of action as soon as they have been notified of their dismissal status. They will be re-evaluated for dismissal status following the Spring Semester and will not be allowed to take classes in the following Fall Semester if their cumulative grade point average remains below 1.75.

Lack-of-Progress Probation

Students who have attempted 12 or more units at Imperial Valley College (IVC) as shown on their transcript will be placed on Lack-of-Progress Probation when the percentage of all units attempted for which symbols of W, I and NC are earned at IVC reaches 50 percent or more.

Students will be removed from Lack-of-Progress Probation when the percentage of all units attempted at IVC for which symbols of W, I and NC are earned drops below 50 percent.

Lack-of-Progress Dismissal

Students who have earned Lack-of-Progress Probation for three consecutive semesters, excluding winter intersession and summer term, will be dismissed.

Students who are dismissed after Spring Semester will not be allowed to take classes the following Fall Semester. Students who are dismissed after Fall Semester may be allowed to take classes in the following Spring Semester, if determination and notification of dismissal status has not been made by the end of the second week of classes. Students will be required to meet with a Counselor to develop a corrective plan of action as soon as they have been notified of their dismissal status. They will be re-evaluated for dismissal status following the Spring Semester and will not be allowed to enroll for the following Fall Semester if the percentage of all units attempted for which symbols of W, I and NC are earned remains at 50 percent or more.

Reinstatement

Students seeking reinstatement after scholastic or lack-of-progress dismissal must submit a petition for reinstatement to the Office of Admissions and Records.

Petitions may be acted on by the Chief Admissions and Records Officer or referred to the Admissions, Registration and Petitions Committee for consideration. Decisions made by the Committee are final.

CHEATING AND PLAGIARISM

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.

STUDENT CONDUCT

It is assumed that the entry of a student into Imperial Valley College constitutes the student's acceptance of the Standards of Student Conduct and the regulations published by the college.

The complete Standards and Procedures may be found in the Handbook for Faculty Advisors and Student Leaders, which is available in the Office of Student Affairs or on the college's website.

STANDARDS OF STUDENT CONDUCT

Imperial Valley College is maintained for the purpose of providing students in the community with programs of instruction in higher education. The College is concerned with the fostering of knowledge, the search for truth and the dissemination of ideas. Free inquiry and free expression are indispensable to the achievement of these goals. As members of the College community, students are encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for truth. Students at Imperial Valley College may rightfully expect that the faculty and administration will maintain an environment where there is freedom to learn. This requires that there be appropriate conditions and opportunities in the classroom and on campus. As members of the College community, students shall be encouraged to develop the capacity for critical judgement and to exercise their rights to free inquiry and free speech in a responsible, non-violent manner.

Students shall assume an obligation to conduct themselves in a manner compatible with the college's function as an educational institution. Students shall observe the rules and regulations of the College and shall refrain from conduct which interferes with the College's teaching and administration, or which unreasonably interferes with the rights of others. Misconduct while on the college campus, or at a College-sponsored function for which students and student organizations are subject to disciplinary action includes, but is not limited to, the following:

(1) Willful disobedience to lawful directions of College officials acting in the performance of their duties.

(2) Violation of College rules and regulations, including those concerning student organizations, the use of College facilities, or the time, place and manner of public expression or distribution of material.

(3) Dishonesty, such as cheating, or for knowingly furnishing false information to the college.

(4) Willful persistent smoking where smoking has been prohibited.

(5) Unauthorized entry to, or use of College facilities.

(6) Forgery, alteration, or misuse of College documents, records, or identification.

(7) Disruption of classes, administration, disciplinary procedures or authorized College activities.

(8) Theft of, or damage to property belonging to the College, a member of the College community, or campus visitor.

(9) Disorderly, lewd, indecent, or obscene conduct or expression.

(10) Assault, battery, or the threat of force or violence directed toward any member of the College community or campus visitor.

(11) Unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance and possession, use, or distribution of alcohol.

(12) Possession, while on the College campus or at a College sponsored function, of any instrument or weapon of a kind commonly known as a blackjack, fire bomb, billy club, brass knuckles, dagger, or firearm (loaded or unloaded) such as a pistol, revolver, or rifle, or any knife having a blade longer than five (5) inches, any switch-blade longer than two (2) inches, or any metal pipe, bar, or instrument used, or intended to be used as a club, or to be used to threaten bodily harm.

(13) Commission of any crime on campus, or commission of a crime off-campus, when such off-campus crime is of such a nature that the College needs to impose sanctions in addition to those imposed by the criminal authorities for the protection of other students, or to safeguard the academic process.

Violation of such rules are subject to the following types of disciplinary actions.

(1) Warning.
(2) Reprimand.
(3) Disciplinary action.
(4) Restitution, reimbursement for damage or misappropriation of property.
(5) Suspension or removal by instructor.
(6) Expulsion

The complete policy on Standards of Student Conduct, Disciplinary Action, and Due Process can be found in the Handbook for Faculty Advisors and Student Leaders in the Student Affairs Office or online at http://student.imperial.edu.

IMPERIAL VALLEY COLLEGE STUDENT COMPLAINT POLICY

The purpose of these procedures is to provide a prompt and equitable means for resolving student complaints. A complaint is defined as an actual or supposed circumstance that adversely affects the grades, status, or rights of a student. Complaints concerning course grades are permitted to the extent that such complaints allege mistake, fraud, bad faith or incompetency as set out in Education Code Section 76224 (a).

A student who contends that he/she has been treated unfairly has the right without fear of reprisal to right an alleged wrong. This complaint policy applies to unfairness as it relates to areas such as, but not limited to:

Assignment of grades
Deviation from course content
Access to classes
Refusal of instructor to confer with a student

This policy does not apply to:

1. Student Code of conduct issues.

2. Allegations of discrimination based on race, color, national origin, sex (including sexual harassment), disability, or age in any of its

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 Discuss the problem with the individual involved or his/her counselor.

Step 2 If a mutually satisfactory understanding has not been reached with the other person, the student may, within five (5) days, present the complaint to the immediate supervisor.

If Complaint is About:	Contact:
Faculty	Division Chair/Associate Dean/Dean
Division Chair	Vice President for Academic Services
Administrator	Dean/Vice President or President
Another Student	Associate Dean of Student Affairs

The supervisor must respond orally within ten (10) instructional days of the complaint.

Formal Resolution

Step 3 If an informal resolution does not occur within ten (10) instructional days of the supervisor's response, a student may submit a complaint form (form may be found at the back of the handbook) to the Vice President for Academic Services regarding academic matters, or the Associate Dean of Student Affairs regarding non-academic matters.

The Vice President for Academic Services or the Associate Dean of Student Affairs will respond in writing to the complaint within ten (10) instructional days of receipt of complaint.

Student Complaint forms are available from:

Associate Dean of Student Affairs	Ext. 6456
Associate Dean of Disabled Student Programs & Services	Ext. 6312
Title IX Officer	Ext. 6202 or 6264

Step 4 If a student is not satisfied with the decision made by the Vice President for Academic Services or Associate Dean of Student Affairs, a student may request a hearing within five (5) instructional days of that decision.
Academic matters will be heard by the Admissions, Petitions and Registration Committee. Non-Academic Matters will be heard by the Student Affairs Committee.

A REQUEST FOR A HEARING SHALL BE FILED NO LATER THAN THIRTY (30) INSTRUCTIONAL DAYS FOLLOWING THE INITIATION OF THE COMPLAINT (STEP 2). IF A COMPLAINT IS FILED

WITHIN THE LAST THIRTY (30) INSTRUCTIONAL DAYS OF THE SEMESTER THE PRESIDENT OF THE COLLEGE MAY DELAY ANY FURTHER ACTION ON THE COMPLAINT UNTIL THE NEXT SEMESTER.

Any committee member who has a direct involvement with the complaint shall be excluded from reviewing that complaint or participating in any manner in the determination of the ultimate outcome of that complaint.

Step 5 Hearing Procedures

a. The appropriate committee will meet within (10) instructional days of the request for a hearing. The Associate Dean of Student Affairs shall notify all parties involved and each committee member of the date, time, and place of the hearing.

b. The student shall bear the burden of proving the allegations of his/her complaint.

c. Hearings and the investigation and gathering of evidence conducted pursuant thereto shall be considered confidential unless all parties and the committee agree to a public hearing. The proceeding shall be recorded either by use of tape recorder, or by stenographic reporter.

d. This is not a legal court proceeding, however all parties may have counsel or other representative(s) present.

e. At the conclusion of the hearing, the Committee shall meet privately to reach its decision by majority vote and prepare a written statement containing findings of fact, conclusions and its recommendation to the Superintendent/President for his/her approval, rejection or modification. The student will be instructed the hearing to be informed verbally of the Committee's recommendation. The Committee's recommendation will also be sent to the student by certified mail within two (2) instructional days after the hearing.

f. No reprisal of any kind will be taken by the Superintendent/President, any member of the Committee, faculty, staff of the administration, or the Board of Trustees against any aggrieved person, or any witness in the complaint procedure by reason of the required participation.

Step 6 Appeals

If the student desires to appeal the Hearing Committee's recommendation, this appeal must be made in writing directly to the Superintendent/President within five (5) instructional days of the hearing.

The Superintendent/President may approve, reject or modify the Hearing Committee's recommendation within (5) instructional days after the appeal is received.

If the student is not satisfied with the decision of the Superintendent/President, he/she may make a final appeal to the Board of Trustees. In order for this appeal to be placed on the Board agenda, a request must be submitted at least ten (10) instructional days prior to the next Board meeting. The Board shall then notify the student (s) of its decision within (5) instructional days of the meeting.

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 REGULATIONS

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 PROCESS

Formerly and currently enrolled IVC students are entitled to seek and receive responses to any questions related to their educational programs in accordance with the Imperial 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.

ATTENDANCE AND AUTOMATIC WITHDRAWALS

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 STUDENT APPLICANTS

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. **FAILURE TO TAKE THE PROPER CLASSES CAN RESULT IN THE REDUCTION OR TERMINATION OF BENEFITS**.

All persons receiving educational benefits must personally contact the Veterans Assistant's Office after enrollment every semester to continue their benefits. In addition, a Student Educational Plan (SEP) must be on file by the end of the first semester. This plan must be developed and reviewed by an academic counselor. The purpose of the SEP is to help you list all prerequisites and courses required for your degree, including general education and proficiency courses. The DVA will not approve payment for any additional courses that are not in compliance with its educational assistance programs.

Military Credit

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

A. Presentation of the DD214 (minimum of 180 days active duty to include basic training) to the Veterans Assistant may allow the veteran 4 units of credit for basic training in the military service of the United States of America (2 units for physical education and 2 units for health education).

B. Additional military credit will be considered by petition and presentation of proper documentation.

C. Total number of units of military credit is not to exceed 16.

Veteran/Dependent Student Lack-of-Scholastic Progress

Students will not be certified for enrollment if placed on Scholastic or Lack-of-Progress Dismissal status. If you have previously been

placed on Scholastic Probation and have a cumulative grade point average of less than 2.0 in the last two consecutive semesters of enrollment and are eligible for certification of Veteran Benefits, you will be dismissed at the end of each semester as a veteran student (lose veteran certification) as required under Veterans Administration approval criteria regulations.

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

Disabled Veterans

Veterans who qualify for educational benefits as disabled veterans may be entitled to special educational benefits. Veterans should visit the DVA Regional Office, 8810 Rio San Diego, San Diego, CA 92108 to determine their eligibility for disabled status.

DVA Service Connected Disability Benefits Programs

Veterans with disabilities are encouraged to investigate services offered through Disabled Students Programs and Services.

Veterans' Dependents - War Orphans

Students who are children or widows of veterans who died as a result of military service or are dependents of veterans who were totally disabled as a result of war service (or peacetime military service since September 16, 1940) may be eligible for assistance from the Veterans Administration or the State of California. Inquiries regarding these benefits should be made through the DVA Regional Office at 8810 Rio San Diego, San Diego, CA 92108.

Student's Liability

The veteran/dependent student assumes full liability for any overpayment of veterans educational allowance benefits.

Tutorial Services

Tutorial services are available to all veterans who meet established VA criteria. Veterans with disabilities are encouraged to investigate services offered through Disabled Students Programs and Services.

Transcripts

All official transcripts of prior college work and military schools must be on file in the Records Office by the end of the first semester of attendance at this college. Certification for benefits for the second semester will be withheld if transcripts are not received. See the Veterans Assistant for necessary forms.

Units Required for Entitlement of Benefits

The following number of units are required each semester to qualify eligible students for educational and training allowances:

12 units or more	full allowance
9 - 11.5 units	three-fourths allowance
6 - 8.5 units	one-half allowance
2 - 5.5 units	one-fourth allowance*

Short-term courses are computed proportionately for payment purposes.
*Chapters 32 and 106 only.

Repeated Classes

By district policy, the veteran is eligible to repeat courses in which a "D" grade has been received; however, the course may be certified for benefits only if a grade of "C" or better is earned towards a degree or other necessary prerequisites are met.

Winter/Summer Sessions

Veteran benefits are also available for the winter/summer sessions. Contact the Veterans Assistant for more information.

Withdrawal/Change of Classes

Veterans are required to notify the campus Veterans Assistant's Office when they stop attending class, withdraw from the college or add or drop a class. Such changes should be reported immediately after filing an official withdrawal or an add/drop card in the Admissions Office. Failure to comply with this regulation will be grounds for decertification.

CHANGES IN THE CATALOG

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

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

GRADUATION REQUIREMENTS

ASSOCIATE DEGREES

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
A.S. Business Administrative Assistant
A.S. Business Office Technician
A.A. Child Development
A.A. Communications Arts
A.S. Computer Information Systems
A.S. Computer Science (pending approval)
A.S. Correctional Science
A.A. Disability Services Technician
A.S. Emergency Medical Services
A.A. English
A.S. Fire Technology
A.A. French
A.S. General Science
A.A. History
A.A. Human Relations
A.A. Humanities
A.S. Journalism
A.A. Legal Assistant
A.A. Liberal Studies - General Option
A.A. Liberal Studies - SDSU Teacher Option
A.S. Library Technician
A.S. Life Science
A.S. Mathematics
A.S. Multimedia and Web Development (pending approval)
A.A. Music
A.S. Nursing - Registered (RN)
A.S. Nursing - Vocational (VN)
A.S. Physical Education
A.S. Physical Science
A.S. Pre-Engineering
A.A. Psychology
A.A. Social Science
A.A. Spanish: Native
A.A. Spanish: Non-Native
A.A. University Studies
A.S. Water Treatment Technology
A.S. Welding Technology

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

A. Sixty (60) degree applicable units.

B. Grade point average of 2.0 or better for all degree applicable college work.

C. Forty-five (45) degree applicable units in residence or the last fifteen (15) degree applicable units at IVC.

In-residence units refer to those units taken at Imperial Valley College in which a student is enrolled, attends class sessions of one semester's duration, and receives a passing grade. Credit by examination, extension credits, military credits, and/or credit by petition do not qualify a student for in-residence units.

Units toward an Associate in Arts or Associate in Science degree at Imperial Valley College must be from a college or university which, at the time the units were completed, was accredited by one of the regional accreditation agencies recognized by the most current COPA edition.

D. Settlement of all financial obligations to the college.

III. INSTITUTIONAL REQUIREMENTS

A. **American Institutions**
Political Science 102
AND
One course selected from:
History 120 **OR** History 121

B. **Health Education**: Health Education 102 or Health Education 100 (Veterans only)

NOTE: This requirement is waived for students who have completed ADN or LVN Majors. Veterans and active duty military personnel may be granted two units of college credit to fulfill the Health Education Requirement if military service has been continuous for at least six months. Copies of the DD-214 or DD-215 forms covering all periods of military service must be on file in the Veterans Office to officially request Health Education credit.

C. Physical Education 100 (2 units) and One (1) Physical Education Activity Course (1 unit)

NOTE: Veterans and active duty military personnel may be granted two units of college credit to fulfill the elective Physical Education activity requirement if military service has been continuous for at least six months. Copies of DD-214 or DD-215 forms covering all periods of military service must be on file in the Veterans Office to officially request PE credit.

IV. STATE COMPETENCY REQUIREMENTS

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

B. **Reading Competency:** A placement score of 3006 on the ACCUPLACER Reading Test or ENGL 089 with a grade of "C" or higher or ENGL 111 with a grade of "C" or higher.

V. **GENERAL EDUCATION**

A minimum of eighteen (18) units is required. To include a minimum of six (6) units in Area A (three [3] units for each part); a minimum of three (3) units from Area B; a minimum of three (3) units from Area C; and, a minimum of three (3) units from Area D. In area E, three (3) units are to be selected from any of the four areas (A, B, C & D) as determined by the student's option.

A. LANGUAGE AND RATIONALITY **Units**

1. **English Composition** (3 units required)
(with a grade of "C" or better)

ENGL 101	Reading & Composition	3

2. **Communication & Analytical Thinking** (3units required)

CIS 101	Introduction to Information Systems	3
ENGL 111	Reading IV: Anal & Crit Reading	3
ENGL 201	Advanced Composition	3
ENGL 240	Introduction to Tech & Report Writing	3
ENGL 250	Creative Writing	3
ENGL 270	Introduction to Linguistics	3
JRN 100	Introduction to Journalism	3
JRN 101	Multimedia News Writing and Reporting	3
MATH 110	Number Systems in Elementary Math	3
MATH 112	Geometry in Elementary Math	3
MATH 119	Elementary Statistics	4
MATH 122	Finite Mathematics	3
MATH 130	Programming in FORTRAN	3
MATH 140	Trigonometry	3
MATH 150	College Algebra	4
MATH 170	Intro Calculus w/Applications	4
MATH 190	Pre-Calculus	5
MATH 192	Calculus I	5
PHIL 106	Logic	3
SPCH 100	Oral Communication	3
SPCH 120	Interpersonal Communication	3
SPCH 180	Argumentation and Debate	3

B. NATURAL SCIENCE (3 units required)

AG/ENVS 110	Enviromental Science	3
AG 120	Soil Science	3
AG 170	Entomology	3
ANTH 100	Physical Anthropology	3
ASTR 100	Principles of Astronomy	3
BIOL 090	Anat & Physiology for Health Occ	3
BIOL 100	Principles of Biological Science	4
BIOL 120	General Zoology I	4
BIOL 122	General Zoology II	4
BIOL 140	General Botany	3
BIOL 150	Human Genetics	3
BIOL 180	General Biology: Molecules, Cells and Genetics	4
BIOL 182	General Biology: Principles of Organismal Biology	4
BIOL 200	Human Anatomy and Physiology I	4
BIOL 202	Human Anatomy and Physiology II	4
BIOL 204	Human Anatomy	4
BIOL 206	Human Physiology	4
BIOL 220	General Microbiology	5
CHEM 100	Introduction to Chemistry	4
CHEM 160	Introduction to General, Organic and Biological Chemistry	5
CHEM 200	General Inorganic Chemistry I	5
ENVS/AG110	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
PHYS 200	General Physics I	5
PSY 200	Biological Psychology	3

C. HUMANITIES (3 units required)

AMSL 100	American Sign Language 1	4
AMSL 102	American Sign Language 2	4
AMSL 200	American Sign Language 3	3
ART 100	History & Appreciation of Art I	3
ART 102	History & Appreciation of Art II	3
ART 104	History & Appreciation of Modern Art	3
ART 106	Women Artists	3
ENGL 102	Introduction to Literature	3
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 228	Intro to Bible as Literature	3
ENGL/HUM 230	Intro to Film History & Criticism	3
FREN 100	Elementary French	5
FREN 110	Elementary French	5
FREN 200	Intermediate French	4
FREN 210	Intermediate French	4
FREN 220	Inter French Reading & Writing	3
FREN 230	Intermediate Conversational French	3
FREN 232	Intermediate Conversational French	3
HIST 110	Early Western Civilization	3
HIST 111	Modern Western Civilization	3
HUM 100	Introduction to The Humanities	3
HUM/ENGL230	Intro to Film History & Criticism	3
+HUM/SPAN 262	Intro to Chicano/a Studies	3
MUS 100	Introduction to Music Foundations	3
MUS 102	Intro. to Music Lit & Listening	3
MUS 104	Intro. to 20th Century Music	3
MUS 154	Chamber Singers	1
MUS 156	College-Community Chorus	1
MUS 171	Chamber Orchestra	1
MUS 172	College-Community Band	1
MUS 173	Concert Band	1
MUS 174	Estudiantina	1
MUS 178	Symphony Orchestra	1
MUS 200	History & Literature of Music I	3
MUS 202	History & Literature of Music II	3
PHIL 100	Introduction to Philosophy	3
PHIL 102	Introduction to Philosophy	3
PHIL/RELS	104 Ethics	3
RELS 100	Religions of the Modern World	3
RELS/PHIL	104 Ethics	3
SPAN 100	Elementary Spanish I	5
SPAN 110	Elementary Spanish II	5
SPAN 113	Beg. Conver. Spanish & Culture	2.5
SPAN 200	Intermediate Spanish I	5
SPAN 210	Intermediate Spanish II	5
SPAN 220	Bilingual Spanish I	5
SPAN 221	Bilingual Spanish II	5
SPAN 222	Bilingual Oral Spanish	3
SPAN 225	Intro. to Spanish American Literature	3
+SPAN/HUM 262	Intro to Chicano/a Studies	3
THEA 100	Introduction to Theatre	3

D. SOCIAL AND BEHAVIORAL SCIENCES (3 units required)

AG 160	Food & Fiber in a Changing World	3
ADS/PSY 120	Introduction to Counseling	3
AIS/ANTH 104	California Indians	3
AIS/ANTH 106	Indians of North America	3
AIS/ANTH 108	Indians of the Southwest	3
ANTH 102	Cultural Anthropology	3
ANTH/AIS 104	California Indians	3
ANTH/AIS 106	Indians of North America	3
ANTH/AIS 108	Indians of the Southwest	3
ANTH 110	Intro to Archaeological Site Survey	3
ANTH 112	Intro to Archaeological Excavations	3
CDEV 103	Children, Family and Community	3
CDEV/PSY 104	Child Growth and Development	3
CDEV 220	Infant/Toddler Development	3
ECON 101	Introduction to Microeconomics	3
ECON 102	Introduction to Macroeconomics	3
EDUC/DSPS 240	Understanding Exceptional Students	3
DSPS/EDUC 240	Understanding Exceptional Students	3
GEOG 102	Cultural Geography	3
GEOG 104	Economic Geography	3
HIST 100	Early World History	3
HIST 101	Modern World History	3
HIST/LAS 130	Early Latin America	3
HIST/LAS 131	Modern Latin America	3
HIST/LAS 132	History of Mexico	3
LAS/HIST 130	Early Latin America	3
LAS/HIST 131	Modern Latin America	3
LAS/HIST 132	History of Mexico	3
POLS 100	Intro to Political Science	3
POLS 104	Comparative Politics	3
POLS 106	Intro. to International Relations	3
PSY 101	Intro to Psychology	3
PSY/CDEV 104	Child Growth and Development	3
PSY/ADS 120	Introduction to Counseling	3
PSY 142	Psychology of Adjustment	3
PSY 144	The Psych of Interpersonal Relationships	3
PSY 146	Psychology of Human Sexuality	3
PSY 202	Learning	3
PSY 204	Developmental Psychology: Conception to Death	3
PSY/SOC 206	Social Psychology	3
PSY 208	Abnormal Psychology	3
SOC 101	Introductory Sociology	3
SOC 102	Contemporary Social Problems	3
SOC 110	Marriage and the Family	3
SOC/PSY 206	Social Psychology	3

+ Ethnic studies course.

E. ELECTIVE (3 units required)

In Area E, three (3) units are to be selected from among the four areas (A, B, C and D) identified above as determined by the student's option.

TRANSFER PREPARATION

I. Students planning to enter a university or four-year college after attending Imperial Valley College should take note of the following suggestions:

A. Consult the catalog of the college or university to which they intend to transfer for such requirements as:

1. Admissions information
2. Major course requirements
3. General education or breadth requirements

B. Notice the difference between lower and upper division courses required by the school in which the advanced work is to be taken. Important point: Degree credit in the major can be expected only for those community college courses for which their are parallel courses designated as lower division by four year colleges or universities.

C. Note: Courses which must be taken in preparation for the major as well as those required for the major.

D. Remember that community college courses transfer to four-year colleges in terms of specific or elective credit, depending upon the school and major selected. Refer to the ASSIST web site at **www.assist.org** which is the official California statewide database listing a selection of campus-approved transfer agreements, general education requirements, and information on UC and CSU transferable courses and major preparation. Students are advised to contact an Imperial Valley College counselor for more information, and for details regarding other transfer agreements and options not available on ASSIST for your transfer college choice.

E. Note any policies regarding the maximum number of units which may be transferable. A maximum of 70 transferable units completed at the community college level may be applied toward the total number of units required for a bachelor's degree by the University of California or the California State University. Subject credit for transferable courses in excess of 70 units may also be granted to satisfy university graduation requirements. Any courses accepted as equivalent to those offered in lower division by the university completed at the community college, even if beyond the 70 unit maximum, will be applied where needed to meet specific lower division major and/or general education/breadth requirements. Therefore, students are strongly advised to complete all courses designated as required lower division preparation for the major prior to transfer, especially where admission to the major is contingent on completion of specific courses.

II. Students should also avail themselves of opportunities to meet with representatives of colleges and universities, which are scheduled throughout the year in the Transfer Center.

III. Catalogs and applications for admission to the University of California and the California State University are available in the Transfer Center. The Transfer Center maintains catalogs and applications from other institutions as well and will provide assistance in obtaining information and applications.

IV. All students must assume complete responsibility for compliance with regulations and instructions set forth in university or college catalogs for their intended transfer institution, for selecting courses which will permit them to meet their educational objectives, and for satisfying prerequisites for any programs or courses they plan to take for transfer.

THE CALIFORNIA STATE UNIVERSITY

The following information is subject to change.

*Application Filing Periods (Applications first accepted):
Summer Semester or Quarter: February 1 (6 campuses)
Fall Semester or Quarter: October 1 - November 30
Winter Quarter: June 1 - June 30
Spring Semester or Quarter: August 1 - August 30

**You are urged to file early. Applications to impacted majors must be filed during the initial filing period. The CSU Designates major programs as impacted when more applications are received in the initial filing period from CSU eligible applicants than can be accommodated. If applying after the initial filing period, consult the campus admissions office or website for current information. Except for impacted majors, campuses accept applications until enrollment categories are filled. Most campuses will acknowledge receiving your application within two to four weeks. For more details refer to the CSU Mentor website at www.csumentor.edu*

Definition of a Transfer Student

You are considered a transfer student if you have completed college units after the summer immediately following graduation from high school:

1. Students who have completed 60 or more transferable semester college units (90 or more quarter units) are considered upper-division transfer students.
2. Students who completed college units before they graduated from high school or during the summer between high school graduation and CSU enrollment are considered first-time freshmen and must meet those admission requirements.

Transfer Admission Requirements

Upper-Division Transfer Requirements (60 or more transferable semester or 90 or more quarter units):

You are eligible for admission if you:

1. Have a college grade point average of 2.00 or better (2.40 for non-California residents) in all transferable college units completed.
2. Are in good standing at the last college or university attended (i.e., you are eligible to re-enroll).
3. Will have completed, or will complete prior to transfer thirty-nine (39) units of general education or equivalent courses, with passed at least 30 of those semester units (45 quarter units) with a grade of "C" or better. The 30 semester units must include all of the general education requirements in communication in the English language (English composition, oral communication, and critical thinking), and at least one course of at least 3 semester units (4 quarter units) is required in college-level mathematics.

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-development. With the certification of general education completed by Imperial Valley College, a student can transfer to a California State University assured that no further general education will be required at the lower division level.

CERTIFICATION OF CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION BREADTH REQUIREMENTS

A. ENGLISH COMMUNICATION & CRITICAL THINKING
(9 semester or 12 quarter units)

1. **Oral Communication** (One [1] course required)
(Note: Grade of "C" or higher required for CSU admission and certification.)

SPCH 100	(3)

2. **Written Communication** (One [1] course required)
(Note: Grade of "C" or higher required for CSU admission and certification.)

ENGL 101	(3)

3. **Critical Thinking** (One [1] course required)
(Note: Grade of "C" or higher required for CSU admission and certification.)

ENGL 111	(3)	PHIL 106	(3)
ENGL 201	(3)	SPCH 180	(3)

B. SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING
(9 semester or 12 quarter units with at least one lab course marked with an "L")

1. **Physical Science** (One [1] course required)

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)		

2. **Life Science** (One [1] course required)

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 134 (L)	(3)	BIOL 220 (L)	(5)
BIOL 140	(3)	PSY 200	(3)
BIOL 150	(3)		

3. **Math/Quantitative Reasoning** (One (1) course required)
(Note: Grade of "C" or higher required for CSU admission and certification.)

+MATH 110	(3)	+MATH 190	(5)
+MATH 112	(3)	+MATH 192	(5)
MATH 119	(4)	MATH 194	(5)
MATH 122	(3)	MATH 210	(5)
+MATH 140	(4)	MATH 220	(3)
+MATH 150	(3)	MATH 230	(3)
+MATH 170	(4)	MATH 240	(3)

C. ARTS AND HUMANITIES (9 semester or 12 quarter units)
Three (3) courses must be completed with at least one (1) course from the Arts category and one (1) course from the Humanities category.

1. Arts Category

ART 100	(3)	+MUS 100	(3)
ART 102	(3)	MUS 102	(3)
ART 104	(3)	MUS 104	(3)
ART 106	(3)	MUS 200	(3)
ENGL/HUM 230	(3)	MUS 202	(3)
HUM/PE 212	(3)	THEA 100	(3)

2. Humanities Category

AMSL 100	(4)	*HIST 140	(3)
AMSL 102	(4)	*HIST 150	(3)
AMSL 200	(3)	*HIST 160	(3)
ENGL 102	(3)	*HIST 220	(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 262	(3)
ENGL 225	(3)	LAS/HIST 130	(3)
ENGL/HUM 226	(3)	LAS/HIST 131	(3)
ENGL 228	(3)	PHIL 100	(3)
ENGL 270	(3)	PHIL 102	(3)
FREN 100	(5)	PHIL/RELS 104	(3)
FREN 110	(5)	RELS 100	(3)
FREN 200	(4)	RELS/PHIL 104	(3)
FREN 210	(4)	SPAN 100	(5)
FREN 220	(3)	SPAN 110	(5)
FREN 230	(3)	+SPAN 200	(5)
FREN 232	(3)	+SPAN 210	(5)
*HIST 100	(3)	+SPAN 220	(5)
*HIST 101	(3)	+SPAN 221	(5)
*HIST 110	(3)	SPAN 222	(3)
*HIST 111	(3)	SPAN 225	(3)
*HIST/LAS 130	(3)	SPAN/HUM 262	(3)
*HIST/LAS 131	(3)		

D. SOCIAL SCIENCE (9 semester or 12 quarter units)

1. **American Institutions**-CSU Graduation Requirement in U.S. History, Constitution and American Ideals. 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)

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)

E. LIFELONG UNDERSTANDING AND SELF-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 CONCEPTS/QUANTITATIVE REASONING
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)		

3. 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)

4. SOCIAL & BEHAVIORAL SCIENCES 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)		

5. PHYSICAL AND BIOLOGICAL SCIENCES

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

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)

6. 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)

7. CSU GRADUATION REQUIREMENT IN U.S. HISTORY CONSTITUTION AND AMERICAN IDEALS
(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 Designated with asterisk may be counted in one area only.*
*** Indicates that transfer credit may be limited by either UC or CSU or both. Please consult a counselor for additional information.*

VOCATIONAL/ OCCUPATIONAL CURRICULA

(APPLIED SCIENCES)
(CAREER TECHNICAL EDUCATION)

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

In developing a major program, each student should plan on completing graduation requirements for the Associate in Arts or Associate in Science Degree. It is recommended that students should plan a broad educational background including general education courses.

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

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,

CERTIFICATES

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

1. Complete all courses listed for a particular certificate;
2. Achieve a "C" grade or better in all courses used to complete the certificate;
3. File a certificate petition with the Registrar no later than the end of the fourth week of each semester and the first week of the winter and summer session.

Certificates are offered in the following areas:
Administration of Justice
Agricultural Business Management
Agriculture Crop Science
Air Conditioning and Refrigeration Technology (pending approval)
Alcohol and Drug Studies
Automotive Collision Repair
Automotive Technology
Building Construction Project Management (pending approval)
Business Accounting Technician
Business Administrative Assistant
Business Financial Services
Business Management
Business Marketing
Business Office Technician
California State University General Education Breadth
Child Development Associate Teacher (pending approval)
Child Development Administration Specialization
Child Development Infant/Toddler Specialization
Child Development School-Age Specialization
Computer Information Systems
Correctional Science
Court Services Specialist (pending approval)
Disability Services Technician
Emergency Medical Services
Field Archaeology
Firefighter I
Fire Technology
Human Relations
Legal Assistant
Library Technician
Medical Assistant
Multimedia and Web Development (pending approval)
Vocational Nursing
Welding Technology

COURSES OF INSTRUCTION

In the following list of courses, the credit value of each course in semester units is indicated by a number in parentheses after the course number.

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

Course descriptions followed by the notation (CSU, UC) indicate that the course is transferable to the California State University system, to the University of California system, or both. A student should contact his/her counselor to determine which courses are applicable to his/her educational objective.

PREREQUISITE, COREQUISITE, ADVISORIES ON RECOMMENDED PREPARATION AND LIMITATIONS ON ENROLLMENT

The Imperial Community College District has adopted a policy in order to provide for the establishing, reviewing and challenging of prerequisites, corequisites, advisories on recommended preparation, and certain limitations on enrollment in a manner consistent with law and good practice. The board recognizes that, if these prerequisites, corequisites, advisories, and limitations are established unnecessarily or inappropriately, they constitute unjustifiable obstacles to student access and success. Therefore, the board adopts this policy and calls for caution and careful scrutiny in establishing prerequisites, corequisites, and advisories. The board also recognizes that it is as important to have prerequisites in place where they are

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)

Definitions:
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 means a condition of enrollment which may include the following:

a. Auditions or tryouts for courses which include public performance and intercollegiate competition, such as a band, orchestra, theater, competitive speech, chorus, journalism, dance, and intercollegiate athletics.

b. Demonstrations of skill or knowledge for enrollment in an honors course or an honors section of a course.

c. The creation of blocks of 2 or more courses in which enrollment is limited in order to create a cohort of students.

Imperial Valley College does not establish prerequisites in communication or computational skills that apply to all courses across the curriculum. Basic skills prerequisites and corequisites are offered in sufficient numbers to accommodate students or the requirement is waived. Any prerequisite may be challenged by a student using the following process:

CHALLENGE PROCESS

Any student who does not meet the prerequisite or corequisite or who is not permitted to enroll in a class due to a limitation on enrollment, may file a student petition to challenge the requirements. The grounds for challenge as specified in Section 55003 (m) of Title 5 include the following:

1. The prerequisite or corequisite has not been established in accordance with the district policy.

2. The prerequisite or corequisite is in violation of Title 5.

3. The prerequisite or corequisite is either unlawfully discriminatory or is being applied in an unlawfully discriminatory manner.

4. The student has the knowledge or ability to succeed in the course or program despite not meeting the prerequisite or corequisite.

5. The student will be subject to undue delay in attaining the goal of his or her educational plan because the prerequisite or corequisite has not been made reasonably available.

The student has the obligation to provide satisfactory evidence that the challenge should be upheld. Where facts essential to a determination of whether the student's challenge should be up held are, or ought to be, in the college's own records, then the college has the obligation to produce that information.

Students who wish to challenge a prerequisite or corequisite or any limitations on enrollment should:

1. Make an appointment with the Matriculation Director at the Hector L. Lopez Student Services Center, (760) 355-6246, to file the petition to challenge a Prerequisite/Co-requisite form, which spells out the grounds for challenge along with any evidence in support of the challenge. The student shall be allowed to remain in class or, if the student is not enrolled in the class but space is available at the time the challenge is filed, the college shall reserve a seat for the student until the challenge is resolved.

2. The Division Chairperson will review the petition and resolve the challenge in no more than 5 working days. If the challenge is upheld, or the college fails to resolve the challenge within the 5 day period, the student will be allowed to remain in the course. If no space was available in the course when the challenge was filed, the student shall be permitted to enroll for the subsequent term.

3. If the challenge is denied by the Division Chairperson, the student may appeal that decision. Upon receipt of notification to the appropriate Vice President, the decision by the appropriate Vice President is final.

4. Upon resolution of the challenge, the Division Chairperson shall forward the student petition and all attachments to the Associate Dean of Admissions and Records for institutional approval and filing in the student's permanent record.

Unless specifically exempted by statute, every course, section or class, the average daily attendance of which is to be reported for state aid, wherever offered and maintained by Imperial Community College District, shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets such prerequisites as may be established pursuant to Chapter II, Division 2, Part VI, Title 5 of the California Administrative Code commencing with Section 51820 (Board of Trustees Resolution No. 10665).

SUMMER SESSION

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

COURSES OF INSTRUCTION

COURSE NUMBERING

001-099 Non-Transferable/Non-Degree Applicable or Non-Transferable/AA-AS Degree Applicable Only

100-199 Freshmen Level Courses*

200-299 Sophomore Level Courses*

800 Community Education (Non-Credit)

900 Community Education (Fee Based)

COMMON COURSES

Honors (297) Advanced academic experiences associated with general education courses. This course provides supplemental instruction to reinforce achievement of the learning objectives of a course in the same discipline under the supervision of the instructor of the designated course. Learning activities may employ a variety of self-paced multimedia learning systems, language labs, print and electronic resources, laboratory, or field research arrangements to assist the student in reaching specific learning objectives. Recommended for students in a subject area offered by the division or students requesting study in depth in a particular area. Limited offerings. Interdisciplinary conference, with readings, discussion, and reports. Maximum credit 2.0 units.

Special Topics These are course offerings designed in specific disciplines to test new curriculum before adopting it as part of an academic program. Maximum credit 3.0 units.

Independent Study (199/299) These courses are academic opportunities for students who are capable of independent work and demonstrate the need or desire for additional study, beyond the regular curriculum. These courses are not intended to replace existing courses in the discipline. In this course, students will have a written contract with their instructor for activities such as: preparing problem analysis, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals. Maximum credit 3.0 units.

*Courses numbered 100-299 are offered at the baccalaureate level. They meet requirements for Associate Degrees and are generally articulated for transfer with four year institutions to meet major, general education, breadth or elective credit requirements. Students should check with their counselors regarding transferability of courses to the California State University, the University of California, private/independent colleges, and out-of-state colleges and universities.

ADMINISTRATION OF JUSTICE

AJ 080 (0.5 UNITS)
SECURITY GUARD (ARREST)
Term Hours: 9 Lec, 0 Lab
Letter Grade only
The purpose of this course is to assist the student in understanding the roles and responsibilities of a security guard. It is designed to satisfy the guidelines described by the California Department of Consumer Affairs "Power to Arrest Training Manual." (Nontransferable, AA/AS degree only)

AJ 100 (3.0 UNITS)
INTRODUCTION TO THE ADMINISTRATION OF JUSTICE
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.
The course will cover the philosophy of Administration of Justice in America and identify its various sub-systems. It will examine the roles and role expectations of criminal justice agents and their interrelationship in society. The concepts of crime causations, punishment and rehabilitation are introduced. This basic course provides a better understanding of the criminal justice system and orients the students to career opportunities. Ethics, education and training for professionalism in the system are discussed. (CSU, UC)

AJ 102 (3.0 UNITS)
CONCEPTS OF CRIMINAL LAW
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Completion of ENGL 101 and ENGL 111 with a grade of "C" or better.
The course covers the historical development of law and constitutional provisions; definitions and the classification of crime and their application to the system of administration of justice; legal research, study of case law, methodology, and concepts of law as a social force are presented. Crimes against persons, property, government, and organized crime are discussed. (Same as CSI 102) (CSU, UC)

AJ 104 (3.0 UNITS)
LEGAL ASPECTS OF EVIDENCE
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: AJ 100; and, completion of ENGL 099 (Formerly ENGL 100) and ENGL 089 with a grade of "C" or better.
Origin, development, and philosophy and constitutional basis of evidence; constitutional and procedural considerations affecting arrest, search and seizure; kinds and degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights and case studies. (CSU)

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 agencies and the public. Emphasis will be placed upon professional image, and the development of positive relationships between members in the criminal justice system and the public. Concepts of community-oriented policing as they apply to administration of justice issues, future trends, and training will be discussed. (CSU, UC)

AJ 120 (3.0 UNITS)
PUBLIC SAFETY COMMUNICATIONS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Completion of ENGL 101 and ENGL 111 with a grade of "C" of better.
This is an introductory course dealing with all aspects of public safety communication. It will cover the techniques to effectively communicate facts, information, and ideas in a clear and logical manner for a variety of public safety systems reports, crime violations, incident reports, letters, memorandum, directives, and administrative reports. Emphasis on criminal justice terminology, use of English, and organization of information. Students will gain practical experience in note taking, interviewing, report writing, and presentation of testimony in courts. (Same as CSI 120) (CSU)

AJ 121 (3.0 UNITS)
POLICE FIELD OPERATIONS
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.
The development, function and techniques of patrol; observation skills; development, traffic and preliminary investigative duties, handling complaints and requests for service, public and community relations and basic crime prevention. The mechanics of field interviews, search and arrests, notetaking and police report essentials. Familiarization with basic police equipment and handling of community crime incidents. (CSU)

AJ 122 (3.0 UNITS)
CRIMINAL INVESTIGATION
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 a "C" or better.
Fundamentals of investigation; techniques or crime scene recording and search; collection and preservation of physical evidence; modus operandi processes; sources of information; interview and interrogation; follow-up and case preparation. (CSU)

AJ 123 (3.0 UNITS)
JUVENILE CONTROL
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.
Techniques of handling juvenile offenders and victims, prevention and repression of delinquency, diagnosis and referral, organization of community resources, juvenile law and juvenile procedure. (CSU)

AJ 124 (3.0 UNITS)
CRIMINOLOGY
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.
This course explores the nature of crime, measurement and research of crime, the extent of crime, major theories of crime causation, criminal typologies, criminal justice system response to crime, and societal reaction to crime. (Same as SOC 124) (CSU)

AJ 141 (3.5 UNITS)
ARREST AND FIREARMS
Term Hours: 63 Lec, 0 Lab
Letter Grade only
Prerequisites as required by P.O.S.T.: No felony or domestic violence convictions, able to successfully participate in physical requirements of class, U.S. Citizen or have filed 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 training standards set forth by the Commission on Peace Officer Standards Training (P.O.S.T.) as required by Penal Code Section 832 for Peace Officers; includes laws of arrest, search and seizure, methods of arrest, discretionary decision making, and where applicable, use and care of firearms. Supply fee may be charged. (CSU)

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 filed 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. Valid California driver's license. Ability to successfully participate in physical requirements of course.
Recommended Preparation: PE 100 or PE 101; completion of ENGL 099 (Formerly ENGL 100) and ENGL 089 with a grade of "C" or better.
Designed to satisfy Reserve Officer Level II, Module B. Training standards are set forth by the Commission on Peace Officer Standards and Training (P.O.S.T.). Includes law, patrol techniques, arrest and control, use of force, investigative report writing, cultural diversity, firearms and chemical agents, presentation of evidence, etc. and required state exams. Supply fee may be charged. Designed to prepare student to be hired by a law enforcement agency as a Level II Reserve Officer. (CSU)

AJ 146 (3.0 UNITS)
BASIC TRAFFIC ACCIDENT INVESTIGATION
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
Prerequisites as required by P.O.S.T: Students must have completed a P.O.S.T. certified Police Academy; P.O.S.T. Regular Basic Course Modules III, II and I; or Reserve Officer Level III, Reserve Officer Level II, and Reserve Officer Level I.
This is a P.O.S.T. certified course designed to provide the student with skills and knowledge to properly investigate and document traffic collisions. Completes peace officer requirements to write traffic collision-related notices of violations based on reasonable cause per California Vehicle Code Section 40600. (Nontransferable, non-degree applicable)

AJ 150 (0.5 UNITS)
ADVANCED OFFICERS COURSE
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Corequisite: Current employment as a law enforcement officer.
This course is designed to permit law enforcement personnel to be trained and/or study relevant topics within the field of Administration of Justice. (May be repeated for additional credit with new content.) (CSU)

AGRICULTURAL ENGINEERING TECHNOLOGY

AGET 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 AU T 075) (Nontransferable, AA/AS degree only)

AGET 100 (3.0 UNITS)
SMALL GASOLINE ENGINES
Term Hours: 36 Lec, 36 Lab
Letter Grade or Credit/No Credit
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 AU T 100) (CSU)

AGET 120 (4.0 UNITS)
POWER TRANSMISSION SYSTEMS
Term Hours: 54 Lec, 54 Lab
Letter Grade only
Theory of operation and maintenance of power transmitting devices, such as transmissions, clutches, hydrostatic drives, differentials, and drive trains used in both wheel and track type equipment. (CSU)

AGRICULTURE

AG 080 (1.0 UNIT)
PESTICIDE SAFETY
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Pesticide safety training for employees who handle and use chemical pesticides. (Nontransferable, AA/AS degree only)

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, and other such factors as determinants of growth, types, and forms of agricultural business organization. Farm and farm-related businesses considered from standpoint of primary functions, services, and problems, including investments, mortgage and working capital requirements, credit and collections, business with banks, failures and reorganization. Emphasis on California farm-related industries. (CSU)

AG 136 (3.0 UNITS)
AGRICULTURAL SALES AND SERVICE MANAGEMENT
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Supervision of people who sell agricultural products and services. Selecting, training, directing, and evaluating personnel. Methods of payment, use of advertising, promotion, incentives, and service. (CSU)

AG 138 (3.0 UNITS)
COMPUTER APPLICATIONS IN AGRICULTURE
Term Hours: 36 Lec, 54 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: CIS 101.
Introduces students to computerized technology relating to agriculture. Students will develop skills in: MS Office, particularly Excel; Geographic Information Systems (GIS), and how these apply to agriculture; the Internet, particularly market and scientific information. Specialized agriculture software: farm and herd management, financial, decision aiding will be presented through demonstration, student usage, or web access. (CSU)

AG 140 (4.0 UNITS)
PRINCIPLES OF PLANT SCIENCE
Term Hours: 54 Lec, 54 Lab
Letter Grade only
An introduction to plant science that examines agricultural, forest, landscape and other significant uses of plants. Included are structure, growth processes, propagation, physiology, genetic improvement and biotechnology, ecology, soil environment, biological competitors and symbionts of plants. The production, harvest, and utilization of the principle crops grown in California and the Imperial Valley will be included. Laboratory work is required which introduces horticultural techniques. (CSU, UC)

AG 150 (3.0 UNITS)
ORNAMENTAL PLANT IDENTIFICATION AND MATERIALS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Identification, growth habits, culture and ornamental use of houseplants, vines, groundcovers, annuals, perennials, and small shrubs adapted to the climate of the southern valleys of California. (CSU)

AG 160 (3.0 UNITS)
FOOD AND FIBER IN A CHANGING WORLD
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Relationship of agriculture and natural resources to society. Where do our food and fiber come from? How does agriculture affect the dynamics of our society? What are the issues and opportunities in agriculture now and in the future? (CSU)

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, marking, 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 CONDITIONING AND REFRIGERATION

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 STUDIES

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 students to understand that both the internal and external environments have important effects on the well-being of the individual. (CSU)

ADS 120 (3.0 UNITS)
INTRODUCTION TO COUNSELING
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: PSY 101 and SOC 101.
A study of the theory, process, and practice of interviewing and counseling in community service and other counseling situations. The course is designed to assist the student to gain knowledge and develop skills in order to help a client or interviewee in counseling situations. Theories of counseling and basic helping skills will be presented, demonstrated, and practiced. (Same as PSY 120) (CSU)

ADS 130 (3.0 UNITS)
GROUP LEADERSHIP AND GROUP PROCESS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course will introduce the student to group theory and process, and how groups affect the whole social scene. It will examine membership in and leadership of various kinds of groups, emphasizing group process. Consideration will be given to goals and strategies of social change and the necessity for social change in relation to personal and social values. The factors involved in problems of communications, effective emotional responses and personal growth also will be highlighted, emphasizing the group process as a means of changing behavior. (Same as PSY 130) (CSU)

ADS 150 (3.0 UNITS)
SOCIOLOGY OF MINORITY GROUPS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course includes the study of the theories of prejudice and discrimination of different groups within American society. It will cover an historical analysis of the problems of these groups and typical areas will include racism, sexism, ageism, and ethnic and religious discriminations. (Same as SOC 150) (CSU, UC)

ADS 176 (1.0 UNIT)
SEX AND GAMBLING ADDICTION
Term Hours: 18 Lec, 0 Lab
Letter Grade only
This one unit course is an introduction to addictive, non-substance related disorders. Issues addressed will include sex and love addiction, gambling addiction, and compulsive spending. It will provide training in the application of appropriate therapeutic models and interventions. (CSU)

ADS 177 (1.0 UNIT)
ANGER MANAGEMENT
Term Hours: 18 Lec, 0 Lab
Letter Grade only
An introduction to the theories and interventions for the management of anger and violence. This one unit class includes intimate abuse and child abuse with special emphasis on brief intervention and emotive behavioral therapies. (CSU)

ADS 178 (1.0 UNIT)
LIFE SKILLS
Term Hours: 18 Lec, 0 Lab
Letter Grade only
An in-depth overview of the skills to better living for those in recovery from abuse and addiction. This course compliments the curriculum for counseling students and is an enhancement for professionals. (CSU)

ADS 200 (3.0 UNITS)
FAMILY COUNSELING APPROACHES TO ALCOHOL AND DRUG ABUSE
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A course designed to present basic ideas and theories about family dynamics, particularly as they apply to the family of the substance abuser, and to explore strategies for counseling the client's family. The approach is highly experiential in format and students will participate in exercises frequently to incorporate new skills and theory. (CSU)

ADS 210 (3.0 UNITS)
CRISIS INTERVENTION AND REFERRAL TECHNIQUES
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Techniques used for brief therapy crisis intervention, intake interviewing and referral will be studied and practiced. Special attention will be given to the process of intervention, admitting, and recording of information as it pertains to alcohol and drug abuse clients. Through an experiential format, participants will learn and practice skills in brief therapy, different levels of client communication and intake interviewing. (Same as PSY 210) (CSU)

ADS 220 (3.0 UNITS)
PRACTICUM
Term Hours: 18 Lec, 108 Lab
Letter Grade only
Recommend Preparation: ADS/PSY 120, PSY 101 and 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 staff and professionally trained personnel. (Same as PSY 220) (CSU)

ADS 221 (3.0 UNITS)
PRACTICUM
Term Hours: 18 Lec, 108 Lab
Letter Grade only
Prerequisite: ADS/PSY 220.
A continuation of ADS/PSY 220 with an emphasis in gaining further experience in the same institution or agency or a different institution or agency. (Same as PSY 221) (CSU)

ADS 230 (3.0 UNITS)
ALCOHOL AND DRUG PREVENTION AND EDUCATION
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: ADS 101 and ADS 110.
This course will review the history, theories, models and state-of-the-art approaches to the prevention field. It will provide experiential learning which will enable students to examine and explore their own values and behaviors as they relate to the use and abuse of alcohol and other drugs. Prevention programs and activities appropriate for the individual, community, campus, parent/family and work site will be reviewed. Strategies such as public policies, media information-dissemination, ethnic and cultural specific approaches will be presented and assessed. (CSU)

ALLIED HEALTH PROFESSIONS

AHP 060 (5.5 UNITS)
HEALTH ASSISTANT
Term Hours: 63 Lec, 108 Lab
Letter Grade only
Recommended Preparation: AHP 100, Medical Terminology.
This course will prepare the health assistant for certification by the State of California as an entry-level worker on a health care team in a long-term care facility. The course is structured to provide theory and practical application of skills needed to function as a nurse assistant. Students will be required to purchase malpractice insurance. (Nontransferable, AA/AS degree only)

AHP 062 (1.5 UNITS)
HOME HEALTH AIDE
Term Hours: 18 Lec, 27 Lab
Letter Grade only
Prerequisite: Certification as a Health Assistant required.
This course will prepare the student for certification by the State of California as a home health aide. The curriculum is structured to provide the theory and practice skills needed to care for individuals in the home environment. (Nontransferable. AA/AS degree only.)

AHP 070 (4.5 UNITS)
ADMINISTRATIVE MEDICAL ASSISTANT I
Term Hours: 81 Lec, 0 Lab
Letter Grade only
Prerequisite: AHP 100.
Course of study designed to prepare for entry-level positions in clinics and doctors' offices. Medical-legal aspects, history of medicine, interpersonal communications, confidentiality, reception environment, appointment control, records management, professionalism, and telephone communications are emphasized. (Nontransferable, AA/AS degree only)

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.
Course is designed to enable the student to put all didactic information and skills together in the work setting of the "front office" of a clinic or doctor's office. The medical assistant student is placed at a medical office, clinic, or HMO where he/she will gain hands-on experience performing "front office" medical assistant duties. Students are required to be available days to attend the externship. The externship hours are similar to the schedules normally available in industry. Students will be required to purchase malpractice liability insurance. (Nontransferable, AA/AS degree only)

AHP 080 (3.5 UNITS)
SPECIMEN COLLECTION AND LABORATORY PROCEDURES
Term Hours: 54 Lec, 27 Lab
Letter Grade only
Prerequisite: AHP 072.
This course is designed to prepare students to comply with OSHA regulations, lab safety, bio-hazard awareness, usage of the microscope and other laboratory equipment, obtainment of capillary and venous blood samples, bacterial smears and cultures, urine, sputum, and stool specimens. (Nontransferable, AA/AS degree only)

AHP 082 (3.5 UNITS)
EXAM ROOM PROCEDURES
Term Hours: 54 Lec, 27 Lab
Letter Grade only
Prerequisite: AHP 080.
This course is designed to prepare students in preparing patients for various types of exams, procedures of the eyes and ears, positioning and draping, assisting physician, language of charting by use of abbreviations and symbols, instrument identification and usage, aseptic technique, diagnostic tests and procedures, EKG, minor surgical procedures, medical emergencies, CPR health care provider level. (Nontransferable, AA/AS degree only)

AHP 084 (3.5 UNITS)
PHARMACOLOGY AND ADMINISTRATION OF MEDICATION
Term Hours: 54 Lec, 27 Lab
Letter Grade only
Prerequisite: AHP 082.
This course is designed to prepare students to understand medical-legal/ethical aspects, drug classifications, medical math, usage of PDR, abbreviations and symbols, writing prescriptions, charting, pharmacy calls, storing medications, methods of administering medications: orally, sublingual, topically, vaginally, and rectally. Conversion of orders to milligrams for injection, handling of and safety in using the syringe and needle, choosing correct size, identifying correct site for injection, injection technique of intradermal, subcutaneous and intramuscular (deep and Z-track), anaphylactic reaction, considerations of drug action and interactions. (Nontransferable, AA/AS degree only)

AHP 086 (2.0 UNITS)
Clinical Externship II
Term Hours: 0 Lec, 108 Lab
Letter Grade only
Prerequisite: AHP 084.
Course is designed to enable the student to put all didactic information and skills together in the work setting of a clinic or doctor's office. The medical assistant student is placed at a medical office or clinic where he/she will gain hands-on experience performing medical assistant duties. The student is required to be available days to attend the externship. The externship hours are similar to the schedules normally available in industry. (Nontransferable, AA/AS degree only)

AHP 090 (2.0 UNITS)
INTRODUCTION TO HEALTH SCIENCE
Term Hours: 36 Lec, 0 Lab
Letter Grade only
This course is an introduction to health science professions. The course will focus on individual programs as well as how those professions collaborate and interrelate. Introduction to health care, professionalism, team building/collaboration, medical terminology, and ethical/legal issues will be explored. New and emerging professions and issues will be discussed. Major health problems will be explored and the impact of lifestyle, total environment, social and political issues analyzed. (Nontransferable, AA/AS degree only)

AHP 100 (3.0 UNITS)
MEDICAL TERMINOLOGY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Course of study is designed to develop competency in the accurate use of medical vocabulary to include anatomy, physiology, diseases, and descriptive terms to prepare students for entry-level positions as medical transcribers, clinical editors, health insurance processors, patient administration specialists. (CSU)

AHP 102 (3.0 UNITS)
MEDICAL INSURANCE
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: AHP 100. Ability to type 40 words per minute.
Health care facilities are dependent upon third party payers for financial solvency. Medical billing guidelines are rapidly changing as are complex issues which health care facilities must concern themselves with daily. The purpose of this course is to provide students with the practice and skill necessary so that billing office personnel can promptly and accurately submit insurance claims to a variety of carriers. (CSU)

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).
This course is designed to provide an introduction and overview of the Pharmacy Technician program at Imperial Valley College. A review of the role of the Pharmacy Technician and various career opportunities are explored. An overview of pharmaceutical dosage forms, drug development processes, and drug classifications are introduced. Ethical and legal aspects of pharmacy practice are discussed. (CSU)

AHP 120 (3.0 UNITS)
PHARMACY TECHNICIAN BODY SYSTEMS I
Term Hours: 54 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).
This course explores Anatomy, Physiology, Pathology and related pharmacology of the respiratory, cardiovascular, renal, integumentary, reproductive and immune systems. Emphasis will be basic terminology, including the accurate use of medical vocabulary and descriptive terms. The classification and indications for selective generic and trade name drugs for selective drugs will be explored with emphasis on the four body systems explored in this course. (CSU)

AHP 125 (3.0 UNITS)
PHARMACOLOGY TECHNICIAN BODY SYSTEMS II
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course explores the Anatomy, Physiology, Pathology and related pharmacology of the endocrine, gastrointestinal, hematologic, nervous, musculoskeletal and eyes, ears, nose and throat systems. Emphasis will be basic terminology, including the accurate use of medical vocabulary and descriptive terms. The classification and indications for selective generic and trade name drugs will be explored with emphasis on the body systems explored in this course. (CSU)

AHP 130 (3.0 UNITS)
CALCULATION AND PHARMACOLOGY FOR PHARMACY TECHNICIANS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Beginning Algebra (MATH 080).
This course is designed to prepare students to understand calculations related to drug dosage, measurements of strength and preparation of safe medication administration. Emphasis is placed on unit-cancellation for solving pharmacy situation problems. Principles of Pharmacology are explored with emphasis on the classification, indication, interaction, and common side effects of major drug classes. (CSU)

AHP 140 (5.0 UNITS)
PHARMACY TECHNICIAN OPERATIONS
Term Hours: 63 Lec, 27 Lab
Letter Grade only
This course is designed to prepare the student for the technical aspects of drug distribution for ambulatory, inpatient, extended care, and ambulatory care setting. The course includes a review of Federal, State, and/or practice site regulations, codes of ethics, and standards pertaining to the practice of pharmacy. Practice site policies and procedures regarding prescriptions and medication orders will be explored. Techniques, equipment and supplies for drug administration will be discussed as well as the mandatory maintenance and screening of equipments. Packaging requirements will be reviewed. Applications of aseptic techniques and use of the laminar flow hood in the preparation of sterile products is demonstrated. Pharmaceutical industry procedures for obtaining pharmaceuticals, purchasing policies, procedures and practice will be discussed. The Pharmacy Technician's role in the administration and management of pharmacy practice will be explored. (CSU)

AMERICAN INDIAN STUDIES

AIS 104 (3.0 UNITS)
CALIFORNIA INDIANS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A comparative study of the native people of California, their languages, fine arts, religions, customs, and natural resource management skills in a diverse geographical and ecological environment; as well as the influence of Western contact and conquest on native life in California. (Same as ANTH 104) (CSU, UC)

AIS 106 (3.0 UNITS)
INDIANS OF NORTH AMERICA
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introductory course studying native cultures of Canada, the United States, and Mexico utilizing archaeological and ethno-historical materials. The pre-historic migration of humans into the Americas and their adaptations to a diverse geography and environment. (Same as ANTH 106) (CSU, UC)

AIS 108 (3.0 UNITS)
INDIANS OF THE SOUTHWEST
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A course designed to study the diverse geography and ecology of the Southwest and its prehistoric Hohokam, Anasazi, and Mogollon cultures; the influence of trade and crafts from Mexico; cultural diversity of customs and traditions, languages, social organizations, healing practices and supernatural beliefs of Native Americans of Arizona and New Mexico. (Same as ANTH 108) (CSU, UC)

AMERICAN SIGN LANGUAGE

AMSL 100 (4.0 UNITS)
AMERICAN SIGN LANGUAGE 1
Term Hours: 54 Lec, 36 Lab
Letter Grade or Credit/No Credit
An introduction to American Sign Language and fingerspelling. The course will focus on conversational skills, grammar and vocabulary as it is used in the Deaf community. Deaf culture will be examined. (CSU, UC)

AMSL 102 (4.0 UNITS)
AMERICAN SIGN LANGUAGE 2
Term Hours: 54 Lec, 36 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: AMSL 100 with a grade of "C" or higher.
This course is a continuation of American Sign Language 1. Receptive and expressive skills will be further developed through vocabulary enrichment, grammar, practice and interactive conversational exercises. Deaf Culture norms and traditions will be studied in this class. (CSU, UC)

AMSL 104 (3.0 UNITS)
FINGERSPELLING AND NUMBERS
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: AMSL 100.
Introduction to the American manual alphabet (fingerspelling), including numbers, loan signs, acronyms, and abbreviations commonly used in the Deaf community. Extensive drills and practice in both expressive and receptive skills. (CSU)

AMSL 110 (3.0 UNITS)
INTRODUCTION TO DEAF CULTURE
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
Introduction to Deaf Culture examines the experience of a minority culture—its common past, present debates, and promise for the future. Deaf cultural values, characteristics and dynamics will be discussed as well as issues related to minority dynamics. Organizations and individual perceptions of self in relation to group identity, along with political views as examined through articles, books, and videotapes. (CSU, UC)

AMSL 112 (3.0 UNITS)
INTERPRETING AS A PROFESSION
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: AMSL 100.
This course provides a historical framework for the principles, roles, responsibilities, and standard practices of the interpreting profession. Instruction on national testing standards, preparation for certification, and the necessity of ethics as outlined in the Interpreting Code of Ethics. (CSU)

AMSL 200 (3.0 UNITS)
AMERICAN SIGN LANGUAGE 3
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: AMSL 102.
Continues development of American Sign Language conversational skills. Techniques of facial expression, body movement, and specialization as it relates to American Sign Language and Deaf Culture will be studied. (CSU, UC)

AMSL 202 (3.0 UNITS)
AMERICAN SIGN LANGUAGE 4
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: AMSL 200.
The course is a continuation of the American Sign Language skills and fluency developed in AMSL 200. The course increases or strengthens students' expressive and receptive vocabulary competency; however, the major focus of the course continues to be on the expansion of students' skills in the idiomatic usage of conversational ASL, awareness of ASL grammar, usage and syntax, and facility in expressive sign language at the intermediate level. The students will expand their knowledge and understanding of Deaf Culture. (CSU, UC)

AMSL 204 (3.0 UNITS)
AMERICAN SIGN LANGUAGE 5
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: AMSL 202.
AMSL 204 continues, at the intermediate level, the development of the American Sign Language proficiency students acquired in AMSL 202. Students continue to expand their awareness of ASL conventions, grammar, and vocabulary, including a continued review of topical signs and idioms. Students develop a greater competency in their receptive understanding of extended ASL discourse and in their expression of extended ideas, concepts and stories in ASL. Their expressive competency in discussion of ideas includes an expression of their understanding of Deaf culture. Students continue the growth of their technical awareness of Deaf culture and ASL linguistics. (CSU, UC)

AMSL 210 (3.0 UNITS)
INTERPRETING AMERICAN SIGN LANGUAGE 1
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: AMSL 204.
AMSL 210 focuses students' sign language facility on the development of English to ASL interpreting skills. The primary focus of the training is on interpreting in educational and consumer settings, along with continued development of idiomatic sign skills. Students are presented and are asked to discuss in the target language the primary elements of the code of ethics. Students continue the intense review of Deaf culture and ASL linguistics started in AMSL 204. (CSU)

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)

ANTHROPOLOGY

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 nature and the study of primates; the biological variability of living peoples and their genetic background. (CSU, UC)

ANTH 102 (3.0 UNITS)
CULTURAL ANTHROPOLOGY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introduction to global cultural diversity; function and structure of social institutions such as family, kinship, gender roles; types of economic subsistence strategies, political organization, colonialism; multifariousness of supernatural belief. (CSU, UC)

ANTH 104 (3.0 UNITS)
CALIFORNIA INDIANS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A comparative study of the native people of California, their languages, fine arts, religions, customs, and natural resource management skills in a diverse geographical and ecological environment; as well as the influence of Western contact and conquest on native life in California. (Same as AIS 104) (CSU, UC)

ANTH 106 (3.0 UNITS)
INDIANS OF NORTH AMERICA
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introductory course studying native cultures of Canada, the United States, and Mexico utilizing archaeological and ethno-historical materials. The pre-historic migration of humans into the Americas and their adaptations to a diverse geography and environment. (Same as AIS 106) (CSU, UC)

ANTH 108 (3.0 UNITS)
INDIANS OF THE SOUTHWEST
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A course designed to study the diverse geography and ecology of the Southwest and its prehistoric Hohokam, Anasazi, and Mogollon cultures; the influence of trade and crafts from Mexico; cultural diversity of customs and traditions, languages, social organizations, healing practices and supernatural beliefs of Native Americans of Arizona and New Mexico. (Same as AIS 108) (CSU, UC)

ANTH 110 (3.0 UNITS)
INTRODUCTION TO ARCHAEOLOGICAL SITE SURVEYING
Term Hours: 36 Lec, 90 Lab
Letter Grade or Credit/No Credit
Historical development of archaeology and the importance of site surveying; archaeological theory - Middle Range Theory; methods in site surveying; types of sites; laboratory preparation; use and care of field equipment. (CSU)

ANTH 112 (3.0 UNITS)
INTRODUCTION TO ARCHAEOLOGICAL EXCAVATIONS
Term Hours: 36 Lec, 90 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: ANTH 110 and ANTH 210.
Determine a site to be excavated; laws pertaining to excavations; laying out a site with alidade and rod; testing; pit versus trench excavations; stratigraphy; record keeping; screening and collecting; photography; preparation of laboratory and museum materials; pollen, soils, and C 14 tests. (CSU)

ANTH 120 (3.0 UNITS)
INTRODUCTION TO ARCHAEOLOGY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: ANTH 102 or GEOG 102.
This is a general introductory course to the methods, goals, and theoretical concepts of archaeology. This course will explore how archaeologists use cultural remains to explain cultural change and development, and reconstruct and interpret ancient life-ways. (CSU)

ANTH 210 (3.0 UNITS)
ADVANCED ARCHAEOLOGICAL SURVEY
Term Hours: 36 Lec, 90 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: ANTH 110.
Conduct independent surveys, or lead small survey crew; devise research designs; write reports from field notes, maps, photographs and prior records; conduct record and literature searches and catalogue specimens. (CSU)

ANTH 212 (3.0 UNITS)
ADVANCED ARCHAEOLOGICAL EXCAVATIONS
Term Hours: 36 Lec, 90 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: ANTH 112.
Design a field excavation project; select proper equipment; organize a field crew. Conduct record and literature searches; micromapping the project area; pit or trench technique; conduct the dig; screening, selecting, and bagging artifacts and natural samples. Laboratory analysis and curation; photography; dating; report writing are included. (CSU)

ARABIC

ARAB 100 (5.0 UNITS)
ELEMENTARY ARABIC
Term Hours: 90 Lec, 0 Lab
Letter Grade or Credit/No Credit
This is a beginning level language course in Modern Standard Arabic. This course will be proficiency based and will develop rudimentary ability in the four basic language skills; speaking, listening, reading, and writing. Emphasis will be placed on understanding basic grammatical concepts, vocabulary building, and sociolinguistics. (CSU)

ART

ART 100 (3.0 UNITS)
HISTORY AND APPRECIATION OF ART I
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A survey of the Visual Arts from the Prehistoric period to the Renaissance, with emphasis on painting, sculpture and architecture. (CSU, UC)

ART 102 (3.0 UNITS)
HISTORY AND APPRECIATION OF ART II
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A continuation of ART 100, extending from the Renaissance to Contemporary times. May be taken before or concurrently with ART 100. (CSU, UC)

ART 104 (3.0 UNITS)
HISTORY AND APPRECIATION OF MODERN ART
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A broad analytical survey of modern art with a focus on painting, sculpture and architecture. The course will emphasize the examination and comparison of art styles of the twentieth century. (CSU, UC)

ART 106 (3.0 UNITS)
WOMEN ARTISTS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: ART 100 or ART 102.
A survey of the great women artists of history from the ancient times through the twentieth century. Some of the artists to be discussed include: Elizabetta Sirani, Artemesia Gentileschi, Judith Leyster, Elizabeth Vigee-Lebrun, Mary Cassatt, Berthe Morisot, Camille Claudel, Kathe Kollwitz, Frida Kahlo, Georgia O'Keeffe, Helen Frankenthaler. The course will also address the special issues and problems concerning the study of women artists, past and present. (CSU, UC)

ART 110 (3.0 UNITS)
DESIGN
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Fundamentals of design and composition; theory of color. Includes organization and utilization of basic elements through design problems. Additional materials fee applies: $15.00. (CSU, UC)

ART 112 (3.0 UNITS)
DESIGN
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Intermediate studies of elements and principles of art with emphasis on three-dimensional design theory. Additional materials fee applies: $15.00. (CSU, UC)

ART 120 (3.0 UNITS)
BEGINNING DRAWING
Term Hours: 36 Lec, 72 Lab
Letter Grade only
A basic course in drawing from observation, using dry media, and focusing on line, gesture, and value structure as essential means of expression. Additional materials fee applies: $15.00. (CSU, UC)

ART 122 (3.0 UNITS)
DRAWING
Term Hours: 36 Lec, 72 Lab
Letter Grade only
A continuation of Art 120. Additional materials fee applies: $15.00. (CSU, UC)

ART 124 (3.0 UNITS)
PAINTING
Term Hours: 36 Lec, 72 Lab
Letter Grade only
A continuation of the development of composition and the various techniques employed in drawing and painting. Includes figure drawing, landscape, and still-life. Painting covers styles of painting from the Neo-classic to the present day. Additional materials fee applies: $15.00. (CSU, UC)

ART 126 (3.0 UNITS)
PAINTING
Term Hours: 36 Lec, 72 Lab
Letter Grade only
A continuation of Art 124. Additional materials fee applies: $15.00. (CSU, UC)

ART 128 (3.0 UNITS)
WATERCOLOR PAINTING
Term Hours: 36 Lec, 72 Lab
Letter Grade only
The study of watercolor painting with emphasis upon color, composition and pictorial expression. Exploration of various techniques employing the medium of watercolor. Maximum credit six units. Additional materials fee applies: $15.00. (CSU, UC)

ART 130 (3.0 UNITS)
LIFE DRAWING
Term Hours: 18 Lec, 90 Lab
Letter Grade only
Many types of drawing and painting techniques are used to further the student's skill and development of visualizing by drawing from the human figure. Maximum credit six units. Additional materials fee applies: $15.00. (CSU, UC)

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 emphasis on development of ideas and personal expression in three dimensions. Materials include clay, plasters, cement, woods, plastic and metal. Maximum credit six units. Additional materials fee applies: $15.00. (CSU, UC)

ART 160 (3.0 UNITS)
GRAPHIC DESIGN
Term Hours: 36 Lec, 54 Lab
Letter Grade only
This is an introductory class in graphic design, with an emphasis on communicating ideas visually through the use of traditional graphic design means (thumbnail sketches, comprehensive layouts, typography, and presentations skills). Additional materials fee applies: $15.00. (CSU)

ART 165 (3.0 UNITS)
DESIGN FOR THE WEB
Term Hours: 36 Lec, 54 Lab
Letter Grade only
This course covers the process of designing, publishing and publicizing web sites. Students communicate with clients, create detailed storyboards, set production schedules, design interfaces, develop content, and gain understanding of the web design job market. Significant emphasis on designing attractive, yet highly functional web sites. This course is project drive; students learn by redesigning a pre-existing web site or creating a new one. (CSU)

ART 170 (3.0 UNITS)
PHOTOGRAPHY - BEGINNING
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Recommended Preparation: ART 110.
This course is an introduction to history, art, craft, and scope of black and white photography. Emphasis will be on the choice, types, uses of various cameras and lenses (with special emphasis on the 35mm format), camera work and handling, composition, and black and white darkroom procedures. Adjustable (manual) 35 mm cameras or equivalent will be used. Maximum credit six units. Additional materials fee applies: $15.00. (CSU)

ART 220 (3.0 UNITS)
DRAWING
Term Hours: 36 Lec, 72 Lab
Letter Grade only
A continuation of Art 122 with a focus on developing drawing as a terminal medium. Additional materials fee applies: $15.00. (CSU, UC)

ART 222 (3.0 UNITS)
DRAWING
Term Hours: 36 Lec, 72 Lab
Letter Grade only
A continuation of Art 220 with a focus on advanced techniques to develop drawing as a terminal medium. Additional materials fee applies: $15.00. (CSU, UC)

ART 224 (3.0 UNITS)
PAINTING
Term Hours: 36 Lec, 72 Lab
Letter Grade only
A continuation of Art 126. Advanced studio problems in painting. Additional materials fee applies: $15.00. (CSU, UC)

ART 226 (3.0 UNITS)
PAINTING
Term Hours: 36 Lec, 72 Lab
Letter Grade only
A continuation of Art 224. Advanced studio problems in painting. Additional materials fee applies: $15.00. (CSU, UC)

ART 228 (2.0 UNITS)
EXPLORATION OF PAINTING TECHNIQUES
Term Hours: 18 Lec, 36 Lab
Letter Grade only
An exploratory course which provides opportunities to work with the various painting techniques. Basic painting assignments to develop individual application of techniques. Initial exercises in color usage and structure of the painting. Suggestions and evaluation of student work will take place on an individual basis. Additional materials fee applies: $15.00. (CSU, UC)

ART 230 (3.0 UNITS)
LIFE DRAWING
Term Hours: 18 Lec, 90 Lab
Letter Grade only
A continuation of Art 130 with a focus on developing a personal figure style in drawing. Maximum credit six units. Additional materials fee applies: $15.00. (CSU, UC)

ART 240 (3.0 UNITS)
CERAMICS
Term Hours: 36 Lec, 72 Lab
Letter Grade only
A continuation of Art 140 with special emphasis on glaze formulating and decorating techniques. Additional materials fee applies: $15.00. (CSU, UC)

ART 242 (3.0 UNITS)
CERAMICS - TECHNICAL
Term Hours: 36 Lec, 72 Lab
Letter Grade only
A study of the raw materials used in compounding clay bodies and glazes. Specific problems of glaze calculations and techniques of glaze application. Additional materials fee applies: $15.00. (CSU, UC)

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 exhibitions. Maximum credit nine units. (CSU)

ART 270 (3.0 UNITS)
PHOTOGRAPHY - INTERMEDIATE
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Recommended Preparation: ART 110 and ART 170.
This course emphasizes the continued instruction and practice required for understanding and improving B/W film exposure and development procedures, and improving the student's B/W printing skills. It covers various techniques for enhancing B/W negative and print quality. B/W composition and visual communication skills are stressed, as are the understanding and use of light and lighting control, both in the studio and on location. Maximum credit six units. Additional materials fee applies: $15.00. (CSU, UC)

ART 280 (3.0 UNITS)
CAREER PREPARATION IN THE VISUAL ARTS
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Recommended Preparation: Students should have completed two semesters from any one of the major disciplines within the art major (i.e. painting, photography, ceramics, design, sculpture).
This is a course for the art majors, or those students who are planning on a career in the fine arts, graphic design, photography or other applied arts field. Students will prepare a written resume, artist's statement, a photographic portfolio of their ongoing creative work, research and prepare a marketing/exhibition plan for their creative work, approach a minimum of three venues (galleries, museums, nonprofit arts' organization) with their portfolio package, and create an on-line web site portfolio of their work. It is recommended that students take this course during the last year of their art studies at IVC. Maximum credit six units. (CSU)

ART 282 (3.0 UNITS)
ART FUNDAMENTALS FOR EDUCATION
Term Hours: 72 Lec, 18 Lab
Letter Grade only
The philosophical and practical concerns of teaching art to students. Designed for those already in the teaching profession as well as for those who are planning a career in the teaching profession. (CSU)

ASTRONOMY

ASTR 100 (3.0 UNITS)
PRINCIPLES OF ASTRONOMY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introduction to the principles of astronomy including physical evolution, tools of the astronomer, the sky, the solar system, the stars, the galaxies, and the universe. (CSU, UC)

AUTOMOTIVE COLLISION REPAIR

AU B 120 (5.0 UNITS)
AUTOMOTIVE COLLISION REPAIR
Term Hours: 54 Lec, 108 Lab
Letter Grade only
Recommended Preparation: WELD 100 (formerly WELD 130).
The study of body repair and spot painting. Covers the use of modern tools and equipment and procedures for handling typical body paint jobs. (CSU)

AU B 140 (5.0 UNITS)
FRAME AND UNDERCARRIAGE REPAIR
Term Hours: 54 Lec, 108 Lab
Letter Grade only
Recommended Preparation: AU B 120.
Covers auto body repairing and repainting. Use of modern tools and equipment, step-by-step procedures for handling typical jobs. (CSU)

AU B 220 (5.0 UNITS)
ESTIMATING AND COLLISION REPAIR
Term Hours: 54 Lec, 108 Lab
Letter Grade only
Recommended Preparation: AU B 140 and WELD 100 (formerly WELD 130).
Covers major collision repair including extensive frame and undercarriage damage, using modern equipment with step-by-step procedures. (CSU)

AU B 240 (3.0 UNITS)
CUSTOM REFINISHING AND SHOP MANAGEMENT
Term Hours: 18 Lec, 72 Lab
Letter Grade only
Recommended Preparation: AU B 140 or AU B 220.
Auto body techniques and applied shop practices for advanced students who wish to refine technical skills prior to obtaining employment in the industry. (CSU)

AUTOMOTIVE TECHNOLOGY

AU T 070 (3.0 UNITS)
AUTOMOTIVE TECHNIQUES AND APPLICATIONS
Term Hours: 18 Lec, 108 Lab
Letter Grade only
Recommended Preparation: AU T 125 and AU T 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)

AU T 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)

AU T 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)

AU T 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)

AU T 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)

AU T 120 (4.0 UNITS)
AUTOMOTIVE MACHINE SHOP
Term Hours: 36 Lec, 108 Lab
Letter Grade only
Recommended Preparation: AU T 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)

AU T 122 (4.0 UNITS)
HIGH PERFORMANCE ENGINE BLUEPRINTING I
Term Hours: 36 Lec, 108 Lab
Letter Grade only
Recommended Preparation: MATH 070, AU T 110, AU T 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 will be highlighted. (Nontransferable, AA/AS degree only)

AU T 125 (4.0 UNITS)
AUTOMOTIVE BRAKES
Term Hours: 54 Lec, 54 Lab
Letter Grade only
Recommended Preparation: Current enrollment in MATH 070 or equivalent.
This course covers the principles and instruction in disassembly, inspection, installation, and adjustments of the modern brake system. Laboratory activities stress brake system diagnosis, repair, machining, and overhaul procedures and proper use of tools and equipment utilized in the industry. Upon successful completion of this course, students are prepared to take the Automotive Service Excellence (ASE) certification examination in brakes. (CSU)

AU T 130 (3.0 UNITS)
AUTOMOTIVE ELECTRONICS I
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Advanced study of automotive electrical systems. Basic diagnosis and service procedures on the various systems. (CSU)

AU T 150 (4.0 UNITS)
AUTOMOTIVE ELECTRONICS II
Term Hours: 54 Lec, 54 Lab
Letter Grade only
Recommended Preparation: AU T 130
Advanced troubleshooting courses for Automotive Service Technicians. This course is designed for technicians or students, certified or not, who want to service the automotive electronic circuitry. The course provides a solid core of electronics based on microprocessor technology. Students will diagnose the various systems that include: engine computer control, transmission computer control, suspension, antilock brake systems, and various automotive instrumentation. Upon successful completion of this course, students are prepared to take the Automotive Service Excellence (ASE) certification examination in electronics. (CSU)

AU T 155 (4.0 UNITS)
SUSPENSION AND WHEEL ALIGNMENT
Term Hours: 54 Lec, 54 Lab
Letter Grade only
Recommended Preparation: MATH 070 or equivalent and AU T 125.
This course covers the principles and construction of passenger vehicle and light truck steering, chassis, and suspension system. Emphasis is placed on the skill required in the diagnosis repair and adjustment of wheel alignment including two and four wheel alignment angles. Complete suspension and overhaul will be done in laboratory activities, as well as alignment using either two or four wheel sensors. Upon successful completion of this course, students are prepared to take the Automotive Service Excellence (ASE) certification examination in steering wheel suspension. (CSU)

AU T 160 (3.0 UNITS)
ENGINE PERFORMANCE TUNE-UP
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Recommended Preparation: AU T 150 or passing of Automotive Service Excellence (ASE) electrical test or one year trade experience in engine tune-up.
This course provides operating theory and hands-on experience in the operation, diagnosis, and repair of automotive fuel systems with carburetors, basic throttle body and part fuel injection systems. Students learn to use the four gas analyzers. (CSU)

AU T 170 (3.0 UNITS)
ENGINE DIAGNOSIS AND REPAIR
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Recommended Preparation: AU T 160 or one year in automotive trade with drivability experience.
This course provides advanced operation and hands-on experience of electronic injection systems and their sub-assemblies. Students will learn operation and repairs of sensors and actuators or injection systems. This class emphasizes diagnostic procedure and techniques using basic and sophisticated test equipment. (CSU)

AU T 180 (4.0 UNITS)
MANUAL TRANSMISSIONS AND POWER TRAINS
Term Hours: 54 Lec, 54 Lab
Letter Grade only
This course discusses modern manual transmissions, driveline and deferential theory of method of repair, service equipment operation, and techniques of problem diagnosis procedures for import and domestic vehicles. Upon successful completion of this course, students are prepared to take the Automotive Service Excellence (ASE) certification examination in manual transmissions. (CSU)

AU T 210 (3.0 UNITS)
AUTOMOTIVE AIR CONDITIONING
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Recommended Preparation: AU T 130
The course is designed to impart knowledge and information needed by the student to enter and make progress in employment on productive basis in the automotive air conditioning service industry. The use of charging station and systems will be part of A/C course. Upon successful completion of this course, students are prepared to take the Automotive Service Excellence (ASE) certification examination in air conditioning. (CSU)

AU T 220 (4.0 UNITS)
MECHANICAL AUTOMATIC TRANSMISSIONS
Term Hours: 36 Lec, 108 Lab
Letter Grade only
Design, construction, mechanical, and hydraulic function and repairs of the automatic transmission. (CSU)

AU T 230 (3.0 UNITS)
EMISSIONS CONTROL AND COMPUTER SYSTEMS
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Recommended Preparation: AU T 170 or two years experience in an automobile trade with drivability experience.
This is an advanced engine computer and drivability course. It emphasizes diagnostic procedure and techniques using all types of equipment and procedures. This class brings together all knowledge from AU T 160 and AU T 170, and allows students to diagnose all systems of the automobile. Upon successful completion of this course students are prepared to take the Automotive Service Excellence (ASE) certification examination in electronics, engine performance, and advanced engine performance. (CSU)

AU T 231 (4.0 UNITS)
AUTO EMISSION CONTROL SYSTEM
Term Hours: 36 Lec, 108 Lab
Letter Grade only
Recommended Preparation: AU T 170, AU T 230, or ASE Certification in Engine Performance (A8) and Automotive Electronics (A6).
The Clean Air Car Course is designed to prepare students or technicians for vehicle emission diagnosis and emission control system repair. Successful completion of this course allows the students or technicians to take the state smog examination. Students enrolling in this course are expected to have a firm background in automotive engine theory and repair. This is not a beginner course; this course is divided into four sections or modules. These modules consist of reviews in: rules and regulations of the smog system, repair and maintenance of emission control devices, engine tune-up and fuel systems, electrical/electronic devices and testing, and repairing computerized engine controls. (Nontransferable, AA/AS degree only)

AU T 235 (3.0 UNITS)
AUTOMOTIVE ELECTRICAL/ELECTRONIC INSTRUMENTS
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Recommended Preparation: AU T 130.
The automotive professional uses different types of electrical/electronic instruments and equipment on a daily basis to troubleshoot and maintain various electronic circuits. This course is designed for technicians or students with little previous automotive electronic training. The testers or instruments can range from a logical test light all the way to a lab scope and anything in between. The student will learn how to use and interpret the most popular electronic equipment to diagnose and repair today's vehicle circuitry. In addition, this course covers the proper procedures for using the correct accessories to repair automotive winding computer system. Upon completion of this course, the student will have the capability to interpret all electronic signals and be prepared for the use of any electrical/electronic equipment available in the automotive field. (Nontransferable, AA/AS degree only)

AU T 240 (3.0 UNITS)
DIESEL ENGINE TUNE-UP
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Prerequisite: AU T 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)

AU T 250 (4.0 UNITS)
ELECTRONIC AUTOMATIC TRANSMISSIONS
Term Hours: 36 Lec, 108 Lab
Letter Grade only
Prerequisite: AU T 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)

BIOLOGY

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 or current California LVN license.
For students currently accepted for advanced placement by the IVC Nursing Department. Provides student with fundamental concepts of the structure and physiology of non-disease and disease producing microorganisms with lesser emphasis on non-disease producers than BIOL 220 . Basic techniques for culturing, staining, and identifying bacteria. (Nontransferable, nondegree applicable)

BIOL 100 (4.0 UNITS)
PRINCIPLES OF BIOLOGICAL SCIENCE
Term Hours: 54 Lec, 54 Lab
Letter Grade only
Prerequisite: MATH 090 or equivalent with a grade of "C" or better.
A comprehensive one semester general biology course for non-majors. Includes life from the molecular to the organismic level of both plants and animals and their interactions within the environment. Special emphasis is put on human biology within appropriate areas of study. Appropriate for general education as well as nursing, pre-professional, and higher level biology courses. Includes laboratory component. (CSU) (UC credit limited. See a counselor.)

BIOL 120 (4.0 UNITS)
GENERAL ZOOLOGY I
Term Hours: 36 Lec, 108 Lab
Letter Grade only
Prerequisite: MATH 090 or equivalent with a grade of "C" or better.
Recommended Preparation: Any laboratory science college level course, with a grade of "C" or better.
Introduction to basic principles of animal biology with reference to structure, functions, classification, heredity, and the environment of animals in general with special emphasis on the invertebrates. BIOL 122 may be taken before BIOL 120. (CSU, UC)

BIOL 122 (4.0 UNITS)
GENERAL ZOOLOGY II
Term Hours: 36 Lec, 108 Lab
Letter Grade only
Prerequisite: MATH 090 or equivalent with a grade of "C" or better.
Recommended Preparation: Any laboratory science college level course, including, but not limited to BIOL 120 with a grade of "C" or better.
Introduction to comparative anatomy and physiology, development of vertebrate forms and their interrelationships. (CSU, UC)

BIOL 134 (3.0 UNITS)
FIELD ECOLOGY AND CONSERVATION BIOLOGY
Term Hours: 18 Lec, 108 Lab
Letter Grade only
Recommended Preparation: BIOL 100, Principles of Biological Sciences.
This course is designed primarily for majors in biology, natural science, and related fields, yet is open to all students. This field course introduces students to the principles of ecology of unique ecosystems. Concepts such as biodiversity, conservation, native flora and fauna, plant and animal interactions and adaptations, land-use management, and field research techniques are also covered. Students are expected to develop and apply research skills utilizing the scientific method while conducting small independent field research projects. Travel fees are required. Contact instructor for details. This course is designed to be offered during winter and/or summer sessions. (CSU)

BIOL 140 (3.0 UNITS)
GENERAL BOTANY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This introductory course covers the general principles of botany. The emphasis is on anatomy, morphology, life cycles, embryology, physiology, identification of plants, ecological principles, and a plant kingdom survey. Field trip(s)/activities are included with the course. (CSU, UC)

BIOL 142 (3.0 UNITS)
ETHNOBOTANY: PLANTS AND HUMAN CULTURES
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This introductory course focuses on the concepts, questions and methods of ethnobotany, the scientific study of interactions between plants and humans, and the relationship between Traditional Resource Management and plant ecology. Students will use the scientific method to investigate the ecological and biological traits of plants, how these traits have shaped multi-cultural human use, and how plants have been affected by humans. Topics include the following: plant structure and reproduction; plant evolution under domestication; the role of biodiversity in natural and cultivated systems; ethnobotanical research techniques; the ethics of intellectual property rights; and principles of economic botany and comparative plant use by various cultures for food, medicine, shelter, basketry, and dyes. Field trip(s)/activities included within the course. (CSU, UC)

BIOL 150 (3.0 UNITS)
HUMAN GENETICS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: MATH 090 with a grade of "C" or better.
A one semester course examining genetics from a human perspective. Discussion of patterns of inheritance, human genetic diseases and disorders, and the application of genetic technologies in other organisms for human use. (CSU, UC)

BIOL 180 (4.0 UNITS)
GENERAL BIOLOGY: MOLECULES, CELLS AND GENETICS
Term Hours: 54 Lec, 54 Lab
Letter Grade only
Prerequisite: MATH 090 with a grade of "C" or better.
This course is one of two entry-level courses designed for life science majors, health care, and science educators intending to transfer to four-year institutions. However, the course is open to all students. This course will introduce students to molecules of cells, cell structures and functions, cell division, cellular respiration, photosynthesis, molecular biology, and genetics. (CSU, UC)

BIOL 182 (4.0 UNITS)
GENERAL BIOLOGY: PRINCIPLES OF ORGANISMAL BIOLOGY
Term Hours: 54 Lec, 54 Lab
Letter Grade only
Prerequisite: MATH 090 with a grade of "C" or better.
This is one of two entry-level courses designed for life science, biology, health care, and science education majors intending to transfer to four-year institutions. However, this course is open to all students. This course provides students an introduction to biology and the scientific method. Additionally, properties of life leading to genetic and biological diversity are studied. The course surveys evolutionary relationships, systematics, ecology, biological diversity, population regulation, and physiology of living organisms (Protista, Fungi, Plants, and Animals). Emphasis is on structure and function at the organismal level. (CSU, UC)

BIOL 200 (4.0 UNITS)
HUMAN ANATOMY AND PHYSIOLOGY I
Term Hours: 36 Lec, 108 Lab
Letter Grade only
Prerequisite: MATH 090 and CHEM 100 and BIOL 100 or BIOL 122 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/RN license.
Human anatomy and physiology. A two-semester study of the structure and function of the human organism, from the molecular to the gross level. Preparatory for RN program and paramedical programs. (CSU) (UC credit limited. See a counselor.)

BIOL 202 (4.0 UNITS)
HUMAN ANATOMY AND PHYSIOLOGY II
Term Hours: 36 Lec, 108 Lab
Letter Grade only
Prerequisite: BIOL 200 with a grade of "C" or better; or MATH 090 with a grade of "C" or better and current California LVN or RN license.
Human anatomy and physiology. A two-semester study of the structure and function of the human organism, from the molecular to the gross level. Preparatory for RN program and paramedical programs. (CSU) (UC credit limited. See a counselor.)

BIOL 204 (4.0 UNITS)
HUMAN ANATOMY
Term Hours: 36 Lec, 108 Lab
Letter Grade only
Prerequisites: MATH 090 and BIOL 100 or BIOL 122 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.
Lecture and laboratory course designed to study the fundamental principles of the human body structure at the cellular, tissue, organ and systems level of organization, including the cat and organ dissection, study of the human skeleton, structural-functional relationships, and appreciation of related human diseases and aging. (CSU) (UC credit limited. See a counselor.)

BIOL 206 (4.0 UNITS)
HUMAN PHYSIOLOGY
Term Hours: 36 Lec, 108 Lab
Letter Grade only
Prerequisites: MATH 090 and CHEM 100 and BIOL 204 with grades of "C" or better; or MATH 090 with a grade of "C" or better and current California LVN or RN license.
Lecture and laboratory course designed to introduce the function of the human body from cellular through organ system levels of organization. Emphasis will be on integration of body systems and interrelationships for maintaining homeostasis. The practical applications of the basic concepts are presented. (CSU) (UC credit limited. See a counselor.)

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, LAYOUT, AND SETTING
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Recommended Preparation: BLDC 140.
This course will introduce students to techniques, practices, and procedure in concrete formwork, layout, and settings, which will lead to employment in the cement mason occupations within the Building Construction Trades Industry. (Nontransferable, AA/AS degree only)

BLDC 150 (4.0 UNITS)
CARPENTRY METHODS, MATERIALS, AND TOOLS
Term Hours: 36 Lec, 108 Lab
Letter Grade only
Recommended Preparation: BLDC 110, BLDC 130, and BLDC 140.
Carpentry construction methods require the use of construction methods, materials, and tools to achieve a completed structure. Use and operation of hand and power tools used for a variety of construction materials will be studied and applied during this course. Application of materials and execution of construction methods will be guided by building codes and in compliance with safety regulations. (Nontransferable, AA/AS degree only)

BLDC 160 (3.0 UNITS)
CONSTRUCTION TECHNICAL AND CONTRACT DOCUMENTS
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Recommended Preparation: BLDC 140 and Construction Trade experience.
This course will introduce the student to the typical organization of a planning department and the responsibilities of the personnel associated with the development, review, implementation, enforcement, and approval of technical and contract documents. (Nontransferable, AA/AS degree only)

BLDC 165 (4.0 UNITS)
CONCRETE MATERIALS, METHODS, AND TOOLS
Term Hours: 36 Lec, 108 Lab
Letter Grade only
Recommended Preparation: BLDC 145.
This course will continue to prepare the student in the occupational field of cement mason by including learning activities in cement manufacturing, portland cement types, aggregates, admixtures, reinforcement, material handling, placing, compacting, finishing, hand tooling, and mechanical tools. (Nontransferable, AA/AS degree only)

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. Instruction will be based on types of materials, inspections, construction applications, material retrofitting, career opportunities, and analysis of retrofitting costs. Included will be the discussion on the standard setting organizations that influence sustainable building, their design and efficiency. Learning opportunities will be enhanced through a combination of lecture, laboratory activities. (Nontransferable, AA/AS degree only)

BLDC 180 (3.0 UNITS)
BUILDING PLANNING AND COST ESTIMATION
Term Hours: 36 Lec, 54 Lab
Letter Grade only
This course will present the subjects of planning and cost estimating to develop the knowledge of material determination, production quantities, and costs associated with construction. Included will be the understanding of the relationship between planning, estimating, and cost accounting in construction. (Nontransferable, AA/AS degree only)

BLDC 185 (4.0 UNITS)
CONCRETE FOOTINGS, FLATWORK, AND DETAIL WORK
Term Hours: 36 Lec, 108 Lab
Letter Grade only
Recommended Preparation: BLDC 165.
This course is the study of concrete construction to include the skills and understanding necessary for the entry-level cement mason to locate, layout, and complete the formwork for footings. Included will be elements of flatwork concrete construction and decorative non-traditional detail work. (Nontransferable, AA/AS degree only)

BLDC 190 (3.0 UNITS)
CARPENTRY TRIM AND DETAIL WORK
Term Hours: 18 Lec, 108 Lab
Letter Grade only
Recommended Preparation: BLDC 150.
Trim and detail work in carpentry construction require a different set of technical and skills competencies. This course is a survey of the technical knowledge, skill sets, and attention to details needed for building and residential construction finish work. Included in this course will be interior finish, doors, windows, drywall, trim, specialty tools, and construction safety. (Nontransferable, AA/AS degree only)

BLDC 201 (3.0 UNITS)
CONSTRUCTION PLANNING AND MANAGEMENT
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Recommended Preparation: BLDC 180.
This course is the study of concepts used in planning, scheduling, and controlling construction projects. Included will be traditional control models, diagrams, linear scheduling, arrow diagrams, resource allocations, time-cost analysis, contract provisions, and dispute resolution. (Nontransferable, AA/AS degree only)

BLDC 210 (3.0 UNITS)
CONSTRUCTION MANAGEMENT AND ORGANIZATION
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Recommended Preparation: BLDC 201 and Construction Trades experience.
This course is a study in construction firms and their fundamental techniques for operation. Discussion will be on types of materials, inspections, construction methods, project management problems, labor opportunities, construction costs, and project controls. Included will be discussion on the organizations that influence construction projects, their design, scheduling, costs, and final efficiency factor. (Nontransferable, AA/AS degree only)

BUSINESS ADMINISTRATION

BUS 010 (3.0 UNITS)
PRACTICAL ACCOUNTING
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
This basic course will teach students to journalize and post transactions common to a service type business and teach them the end of the fiscal period functions on the accrual basis. (Nontransferable, AA/AS degree only)

BUS 060 (3.0 UNITS)
ESSENTIALS IN WORKPLACE COMMUNICATION
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
Emphasizes the basic elements and skills necessary for effective workplace communications, business vocabulary —pronunciation, spelling, meaning, and punctuation. Standard letter writing styles will be stressed. (Nontransferable, AA/AS degree only)

BUS 061 (3.0 UNITS)
BUSINESS ENGLISH
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: Concurrent enrollment in BUS 060 and/or ENGL 099 (formerly ENGL 100).
This course will provide comprehensive instruction in the correct use of English grammar with an emphasis on business vocabulary; develop proficiency in punctuation, capitalization, and number style skills; and provide an opportunity to apply correct usage and style and effective techniques for writing in today's work world. (Nontransferable, AA/AS degree only)

BUS 124 (3.0 UNITS)
INTRODUCTION TO BUSINESS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A basic beginning college course that introduces U.S. business and industry. Includes the nature and importance of business, forms of business ownership, organization, management, finance, marketing, government and legal regulations, pricing and taxes. Class activities include participation in team-building concepts. (CSU, UC)

BUS 126 (3.0 UNITS)
BUSINESS AND THE LEGAL ENVIRONMENT
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introduction to the legal environment of business. The following topics are covered: sources of law, judicial systems, administrative law, and governmental regulation, crimes and torts, protection of intellectual property, contracts, commercial paper, agency, labor law, legal forms of business organization, securities regulation, consumer and environmental law, warranties, and product liability, bankruptcy, real property law and international law. Collaborative learning and the team approach are used in doing legal research, reading and understanding court opinions and writing briefs of cases. (CSU, UC)

BUS 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 AG 132) (CSU)

BUS 134 (3.0 UNITS)
MANAGEMENT CONCEPTS OF SUPERVISION
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A study of supervisory management concepts that include definition of supervision and management, description of supervisory management functions and a supervisor's role in managing organizational resources, staffing, methods of performance appraisal, problem solving, and decision-making techniques, motivation, conflict resolution, compensation, leadership, communication, health and safety, training and development, labor relations, discipline, and how to cope with change. (CSU)

BUS 136 (3.0 UNITS)
HUMAN RELATIONS IN MANAGEMENT
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Study of human relations as they apply to management. Topics covered include model of organizational behavior, social systems, organizational culture, communications management, motivation, performance appraisal, employee attitudes and their effects, leadership and supervision, nature of participation, interpersonal dynamics, management of change, organizational development, ethics, social responsibility, labor relations, equal employment opportunity, stress and counseling. Collaborative learning with team building approaches are employed to enhance interpersonal skills. (CSU)

BUS 140 (3.0 UNITS)
BUSINESS RETAILING
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Principles and techniques of retailing, promotion and advertising pertinent to retail policies and procedures. Includes psychological aspect of retailing and fashion merchandising. Working foundation for those looking forward to employment in this area. (CSU)

BUS 142 (3.0 UNITS)
PRACTICAL SALESMANSHIP
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A practical approach to the study of salesmanship. Topics covered include an overview of personal selling and classification of sales jobs, the sales environment, the sales personality, the sales process, and other subject areas important to sales work such as understanding the firm and building good customer relationships. (CSU)

BUS 144 (3.0 UNITS)
PRINCIPLES OF MARKETING
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A course of study designed to introduce students to the organization and operation of marketing activities, including the study of the marketing mix, markets, promotion and strategic planning. (CSU)

BUS 148 (3.0 UNITS)
PERSONAL FINANCE
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course is an introduction to planning and managing personal finances. Emphasis is on real world situations such as budgeting, credit and borrowing, money management and tax strategies, risk and insurance analysis, consumer purchasing strategies, investment instruments and alternatives to retirement and estate planning. (CSU)

BUS 152 (1.0 UNIT)
BASIC KEYBOARDING
Term Hours: 18 Lec, 18 Lab
Letter Grade or Credit/No Credit
This course is designed to develop speed and accuracy in the use of the computer keyboard. The student will learn to operate by touch the letter, number, and symbol keys using the proper typing technique. (CSU)

BUS 154 (3.0 UNITS)
BEGINNING KEYBOARDING AND DOCUMENT FORMATTING
Term Hours: 36 Lec, 36 Lab
Letter Grade or Credit/No Credit
This course is designed to teach the student the basic operations of a computer including using alphabet, numeric and symbol keys. The course will also include the basic commands needed to format business documents. (CSU)

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
Term Hours: 36 Lec, 0 Lab
Letter Grade or Credit/No Credit
Lecture and supervised individual and group procedural activity designed to acquaint students with progressive filing and records management rules, procedures and techniques. Alphabetic, numeric, geographic and subject filing are studied. (CSU)

BUS 172 (3.0 UNITS)
OFFICE TECHNOLOGY AND PROCEDURES II
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: BUS 164.
This course stresses all business skills and those competencies required of the office worker in today's business environment. The course provides realistic and meaningful experiences to strengthen student's administrative skills and knowledge of business procedures and technological skills. The role of the administrative assistant will be analyzed as well as the global influences that affect the way business is conducted. (CSU)

BUS 176 (1.0 UNIT)
OFFICE TRANSCRIPTION
Term Hours: 18 Lec, 18 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: BUS 164.
This course is designed to teach students to develop office technology skills using machine transcription equipment. (CSU)

BUS 180 (4.0 UNITS)
MICROSOFT OFFICE FOR THE WORKPLACE
Term Hours: 54 Lec, 36 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: BUS 164.
This course is designed to strengthen skills needed in a business office. Students will broaden word processing skills; develop spreadsheets and databases; create documents using desktop publishing software; and search for, evaluate, and use information from the Internet. Students will also develop business documents, presentations, and web pages using multimedia. After completing the class, the student will have a foundation for integrating a variety of business applications in an office setting. (CSU)

BUS 190 (3.0 UNITS)
REAL ESTATE PRINCIPLES
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
An analysis of the principles of real estate in California; history of California real estate, property, contractors, agency, listings, real estate financing, deeds, liens and encumbrances, escrows and title insurance, land descriptions, real estate mathematics, and real estate licensing and state regulations. (CSU)

BUS 191 (3.0 UNITS)
REAL ESTATE PRACTICES
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: BUS 190.
Course of study that covers the following topics: Real Estate Industry, Elements and Relationships of Real Estate Agency, Organization of Real Estate Office, Prospecting Methods and Listings Development, Basic Selling and Advertising Techniques, Preparation and Content of Real Estate Purchase Contract, Escrow and Title Insurance, Elements of Real Estate Financing, Sources of Funds, Taxation, Appraisal and Valuation, Property Management and Leasing, Real Estate Investment, and Specialized Transactions. (CSU)

BUS 210 (4.0 UNITS)
PRINCIPLES OF FINANCIAL ACCOUNTING
Term Hours: 72 Lec, 18 Lab
Letter Grade only
Recommended Preparation: MATH 080 or equivalent.
Theory and practice of accounting applicable to recording and reporting of business transactions for proprietorships, partnerships, and corporations as they relate to external use. Includes the study of asset, liability, and equity accounts; revenue and expense recognition; inventory accounting; stockholder equity, earnings, and dividends; long-term bonds and investments; and statements of cash flows. (CSU, UC)

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
Recommended Preparation: ENGL 099 (formerly ENGL 100) and word processing skills.
This course will teach the principles of effective communication applied to business letters, memos, and analytical reports. It includes the organization, writing, and presentation of business documents and incorporates the basic principles of speaking effectively for business. (CSU)

CHEMISTRY

CHEM 100 (4.0 UNITS)
INTRODUCTION TO CHEMISTRY
Term Hours: 54 Lec, 54 Lab
Letter Grade only
Prerequisite: MATH 090 with a grade of "C" or better.
Elementary principles of general and inorganic chemistry with an introduction to organic and biochemistry. Previous science background is recommended, but not required. This course is designed for non-science majors and students who need only a one-semester general chemistry course, and also for students entering a paramedical and allied health fields, and industrial applications such as power plants. This course will satisfy the prerequisite for CHEM 200. (CSU) (UC credit limited. See a counselor.)

CHEM 160 (5.0 UNITS)
INTRODUCTION TO GENERAL, ORGANIC AND BIOLOGICAL CHEMISTRY
Term Hours: 72 Lec, 54 Lab
Letter Grade only
Prerequisites: CHEM 100 or equivalent and MATH 090 or equivalent with grades of "C" or better.
This is a one-semester lecture and lab chemistry course covering topics from general, organic, and biological chemistry, with emphasis on organic and biochemistry, necessary to understand human biochemistry and pharmacology. It is designed for students majoring in Nursing and Allied Health Sciences. (CSU, UC)

CHEM 200 (5.0 UNITS)
GENERAL INORGANIC CHEMISTRY I
Term Hours: 54 Lec, 108 Lab
Letter Grade only
Prerequisite: CHEM 100 and MATH 090 with grades of "C" or better.
Basic principles and calculations of chemistry with emphasis on stoichiometry and dimension analysis applied to various problem types. Fundamental principles and theory of atomic and molecular structure as related to bonding and molecular geometry. Study of kinetic molecular theory, the first law of thermodynamics, periodic relationships of the elements, physical states of matter, solution chemistry, and oxidation-reduction. The laboratory is closely related to lecture topics and includes methods of classical experimentation as well as certain instrumental analysis. (CSU, UC)

CHEM 202 (5.0 UNITS)
GENERAL INORGANIC CHEMISTRY II
Term Hours: 54 Lec, 108 Lab
Letter Grade only
Prerequisite: CHEM 200 with a grade of "C" or higher.
This course includes a detailed study of chemical reaction rates, the equilibrium condition as it applies to acids and bases as well as solubility, thermodynamics and the properties of spontaneous reactions, electrochemistry, chemistry of the transition elements, and nuclear processes. A survey of topics in organic chemistry and biochemistry is also included. This is the second course of the chemistry series. (CSU, UC)

CHEM 204 (5.0 UNITS)
ORGANIC CHEMISTRY I
Term Hours: 54 Lec, 108 Lab
Letter Grade only
Prerequisite: CHEM 202 with a grade of "C" or better.
This course is a study of various reaction mechanisms and properties of hydrocarbons, alkyl halides, alcohol, thiols, and ethers. Stereochemical properties of compounds are investigated and related to structure and observed reactions. Instrumental methods of analysis such as IR, UV-VIS, NMR, and mass spectrometry are discussed. This course is intended for students majoring in chemistry, biology, and pre-medical sciences. (CSU, UC)

CHEM 206 (5.0 UNITS)
ORGANIC CHEMISTRY II
Term Hours: 54 Lec, 108 Lab
Letter Grade only
Prerequisite: CHEM 204 with a grade of "C" or better.
This course is a study of various reactions and properties aldehydes, ketone, carboxylic acids, aromatic compounds, amines, conjugated dienes, lipids, carbohydrates, and organic polymers. A survey of various biochemical topics such as metabolism, protein structure, and DNA is also included. This course is a continuation of CHEM 204 is intended for students majoring in chemistry, biology, and pre-medical sciences. (CSU, UC)

CHILD DEVELOPMENT

CDEV 020 (0.5 UNITS)
SELECTED TOPICS OR SPECIAL PROJECTS IN CHILD DEVELOPMENT
Term Hours: 9 Lec, 0 Lab
Credit/No Credit only
Selected topics in Child Development not covered by regular catalog offerings. Course content and unit credit to be determined by the Department of Child, Family and Consumer Sciences; Child Development Program. The purpose of this course is to provide students with the opportunity to attend professional conferences and to experience a variety of presentations. (Nontransferable, nondegree applicable)

CDEV 050 (1.0 UNIT)
FAMILY CHILD CARE MANAGEMENT
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Instruction in operating home based childcare as a successful business. Topics covered include bookkeeping, tax laws, licensing requirements, management skills, scheduling and policies. (Nontransferable, AA/AS degree only) (Formerly CFCS 050)

CDEV 051 (1.0 UNIT)
FAMILY CHILDCARE PROVIDER AND PARENT RELATIONS
Term Hours: 18 Lec, 0 Lab
Letter Grade only
A study of appropriate provider and parent communication techniques and strategies. Includes problem solving, decision making, conflict resolution, methods for increasing parent involvement and participation in child's care and education. (Nontransferable, AA/AS degree only) (Formerly CFCS 051)

CDEV 052 (1.0 UNIT)
FAMILY CHILDCARE LICENSING AND RESOURCES
Term Hours: 18 Lec, 0 Lab
Letter Grade only
A study of California Childcare requirements, funding possibilities and community resources. (Nontransferable, AA/AS degree only) (Formerly CFCS 052)

CDEV 100 (3.0 UNITS)
PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An examination of the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all children. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity. (CSU)

CDEV 101 (3.0 UNITS)
HEALTH, SAFETY AND NUTRITION
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Introduction the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health, safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into every day planning and program development for all children. (CSU)

CDEV 102 (1.0 UNIT)
FIRST AID AND CPR FOR TEACHERS OF YOUNG CHILDREN
Term Hours: 18 Lec, 0 Lab
Letter Grade only
First Aid, CPR Module B: American Red Cross or American Heart Association certification in infant, child and adult CPR and First Aid. (CSU) (Formerly CFCS 102)

CDEV 103 (3.0 UNITS)
CHILD, FAMILY AND COMMUNITY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An examination of the developing child in a societal context focusing on the interrelationship of family, school community and emphasizes historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. (CSU) (Formerly CFCS 104).

CDEV 104 (3.0 UNITS)
CHILD GROWTH AND DEVELOPMENT
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. ((Same as PSY 104) (CSU) (UC credit limited. See a counselor.) (Formerly CFCS/PSY 106)

CDEV 105 (3.0 UNITS)
INTRODUCTION TO CURRICULUM
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course presents an overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age 6. Students will examine teacher's role in supporting development and fostering the joy of learning for all young children using observation and assessment strategies emphasizing the essential role of play. An overview of content areas will include but not be limited to: Language and literacy, social and emotional learning, sensory learning, art and creativity, math and science. (CSU) (Formerly CFCS 110)

CDEV 106 (3.0 UNITS)
OBSERVATION AND ASSESSMENT
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisites: CDEV 104 (formerly CFCS 106) with a grade of "C" or higher.
This course focuses on the appropriate use of assessment and observation strategies to document development, growth, play and learning in order to join with families and professionals in promoting children's success and maintaining quality programs. Recording strategies, rating systems, portfolios, and multiple assessment methods are explored. (CSU)

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
Prerequisites: CDEV 105 (formerly CFCS 110) with grade of "C" or higher.
Development of language and communication skills in the first five years of life. Creating a language arts curriculum for toddlers and preschoolers with an emphasis on oral communication using storytelling, puppets, and dramatic play. Analysis of stories and literature for their value to the young child. (CSU) (Formerly CFCS 112)

CDEV 121 (2.0 UNITS)
ART FOR YOUNG CHILDREN
Term Hours: 36 Lec, 0 Lab
Letter Grade only
Prerequisites: CDEV 105 (formerly CFCS 110) with a grade of "C" or higher.
Develop aesthetic and perceptual awareness in the toddler and preschool child through exploration of various process-oriented art media, activities, and experiences. Emphasis is placed on the development of age appropriate art curriculum activities, basic teaching skills, guidance techniques, equipment and materials. (CSU) (Formerly CFCS 114)

CDEV 122 (2.0 UNITS)
SCIENCE AND MATH FOR YOUNG CHILDREN
Term Hours: 36 Lec, 0 Lab
Letter Grade only
Prerequisites: CDEV 105 (formerly CFCS 110) with a grade of "C" or higher.
Developing a science curriculum aimed at introducing the young child to physical science, simple chemistry and biological science concepts. Developing a math curriculum introducing number and math concepts. Emphasis is placed on developing an age appropriate science and math curriculum and planning a science environment that is meaningful and exciting for the young child. (CSU) (Formerly CFCS 122)

CDEV 123 (2.0 UNITS)
MUSIC AND MOVEMENT FOR YOUNG CHILDREN
Term Hours: 36 Lec, 0 Lab
Letter Grade only
Music, rhythm and body movement experiences for young children. Development of teacher skills with simple music instruments and familiarity with resource materials for program planning and exploration of motor skills and movement concepts. (CSU) (Formerly CFCS 118)

CDEV 124 (2.0 UNITS)
CREATIVE COOKING FOR CHILDREN
Term Hours: 36 Lec, 0 Lab
Letter Grade only
Prerequisites: CDEV 105 (formerly CFCS 110) with a grade of "C" or higher.
Cooking experiences for the preschool classroom. Development of effective, developmentally appropriate cooking activities. (CSU)

CDEV 125 (3.0 UNITS)
MULTILINGUAL AND MULTICULTURAL CURRICULUM FOR YOUNG CHILDREN
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisites: CDEV 105 (formerly CFCS 110) with a grade of "C" or higher.
General introduction to life styles, values, and socioeconomic conditions of children from multilingual and multicultural families with special emphasis on ways in which these factors affect the teaching and learning process. Students are introduced to strategies, materials and resources designed to help them enhance the multilingual and multicultural experience of the children. (CSU) (Formerly CFCS 262)

CDEV 140 (2.0 UNITS)
CHILD ABUSE
Term Hours: 36 Lec, 0 Lab
Letter Grade only
A study of abused, battered, and neglected children. Identification and prevention of abused children and of abusers. Mandated reporting responsibilities. (CSU) (Formerly CFCS 170)

CDEV 141 (2.0 UNITS)
CHILDREN WITH CHALLENGING BEHAVIORS
Term Hours: 36 Lec, 0 Lab
Letter Grade only
Effective strategies for working with children who have challenging behaviors in the early childhood classroom environment. Emphasis on teacher's role in working with parents and supporting children through emotional difficulties. (CSU) (Formerly CFCS 171)

CDEV 142 (1.0 UNIT)
WHAT IS DEVELOPMENTALLY APPROPRIATE?
Term Hours: 18 Lec, 0 Lab
Letter Grade only
The subject matter will vary with the needs and interests of the students. The course content is designed to meet educational requirements of Title 22 and Title 5 Professional Growth Permit requirements. The course can be taken more than once, provided the topic of the course is not the same. (CSU) (Formerly CFCS 173)

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 106; CDEV 107; and 4.0/5.0 units from the following: CDEV 120, CDEV 121, CDEV 122, CDEV 123, CDEV 124, OR CDEV 125.
A demonstration of developmentally appropriate early childhood teaching competencies under guided supervision. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children. (CSU) (Formerly CFCS 200)

CDEV 210 (3.0 UNITS)
ADMINISTRATION AND SUPERVISION
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisites: CDEV 200 (formerly CFCS 200) and its prerequisites.
This course incorporates basic management principles for preschools including curriculum development and implementation, personnel management, facility maintenance, budgeting, parent involvement, community relations, program evaluation and professional ethics. (CSU) (Formerly CFCS 210)

CDEV 211 (3.0 UNITS)
ADVANCED MANAGEMENT FUNCTIONS
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Prerequisites: CDEV 210 (formerly CFCS 210) with a grade of "C" or higher.
This course is designed for those who plan to be directors in any child care center, both public and private, in the State of California. Principles and practices of program planning, budgeting and personnel administration for agencies servicing children and families. (CSU) (Formerly CFCS 211)

CDEV 212 (3.0 UNITS)
ADULT SUPERVISION IN CHILD DEVELOPMENT PROGRAMS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A study of the methods and principles of adult supervision in an early childhood setting from a development perspective. Topics covered include competence in personnel management, effective interpersonal communication, how adults learn, team building. (CSU) (Formerly CFCS 212)

CDEV 220 (3.0 UNITS)
INFANT TODDLER DEVELOPMENT
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course will cover the fundamental principles of prenatal and infant development from conception to age two as determined by heredity, society and human interaction. Prenatal development and the birth process are emphasized. Observations will be done on a neonate, infant and toddler. (CSU) (Formerly CFCS 220)

CDEV 221 (3.0 UNITS)
INFANT TODDLER CURRICULUM
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course will prepare students to develop and implement an infant and/or toddler curriculum including the design of a developmentally appropriate learning environment. It will examine the methods currently in practice and study teacher competencies necessary for working with infants/toddlers. Students must put in 5 Hrs. Lab TBA for the semester. (CSU) (Formerly CFCS 221)

CDEV 230 (3.0 UNITS)
SCHOOL AGE CHILD DEVELOPMENT
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A study of the developmental characteristics of the School Age child from ages five to twelve, covering physical, cognitive, social and personality development. Developmental theories will be discussed, and the influences on the basic process will be explored. This course provides preparation for employment in child development programs, and public and private School Age programs. (CSU) (Formerly CFCS 230)

CDEV 231 (3.0 UNITS)
SCHOOL AGE CURRICULUM
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course instructs students in designing a school-age program that meets the needs of children based on current theory and research. Emphasis will be on creating developmentally appropriate environments, curriculum planning, behavior management, health, safety and nutrition. (This course provides preparation for employment in child development programs, and public and private School Age programs.) (CSU) (Formerly CFCS 231)

COMPUTER INFORMATION SYSTEMS

CIS 050 (1.0 UNIT)
ONLINE LEARNING - AN ORIENTATION
Term Hours: 9 Lec, 27 Lab
Credit/No Credit only
This course presents the basics of taking a course through the Internet. It is designed to acquaint students with the skills required for success in an online course. Students will learn to navigate in an online environment, to communicate electronically with the instructor and other students, to submit course assignments and take tests, and to perform other related skills. Hardware and software needs are addressed as well as characteristics of successful online learners. Students must have access to a computer that is connected to the Internet and must have an e-mail account. (Nontransferable,AA/AS Degree only)

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 use of Internet resources. (CSU)

CIS 101 (3.0 UNITS)
INTRODUCTION TO INFORMATION SYSTEMS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introductory course designed to teach the basic understanding of computer information systems, survey computer hardware and software, and give the student hands-on experience on common business applications. (CSU, UC)

CIS 102 (1.0 UNIT)
COMPUTER APPLICATIONS LABORATORY
Term Hours: 0 Lec, 54 Lab
Credit/No Credit only
Recommended Preparation: Concurrent enrollment in a course requiring computer support.
A hands-on lab class which supports those courses requiring computer completed assignments. The student may be involved using word processing, programming, integrated software programs or decision support applications. Maximum credit three units. (CSU)

CIS 104 (3.0 UNITS)
INTRODUCTION TO TELECOMMUNICATIONS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: CIS 101
An introduction to the concepts of telecommunications, data communications and networks. This course gives an overview of connectivity options for local and wide area networks including the Internet, common network protocols and the OSI model. Students learn how to access and utilize networked resources such as file servers, remote printers, e-mail, the Internet and networked applications. (CSU)

CIS 106 (3.0 UNITS)
PC MAINTENANCE, REPAIR, AND UPGRADING
Term Hours: 36 Lec, 36 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: CIS 101 and CIS 110.
A practical course in installing and upgrading common PC hardware, software and peripherals. The student learns computer troubleshooting and repair techniques; other topics include electrical principles, safety and customer relation skills. This course includes preparation in CompTIA A+ certification exam. (CSU)

CIS 107 (3.0 UNITS)
COMPUTER NETWORKING
Term Hours: 36 Lec, 36 Lab
Letter Grade only
Recommended Preparation: CIS 101 and CIS 110.
A practical course in computer network support and administration. The student learns networking standards, architecture and hardware; other topics include TCP/IP, troubleshooting and security. This course includes preparation for the CompTIA Network+ certification exam. (CSU)

CIS 108 (3.0 UNITS)
COMPUTER ACCOUNTING
Term Hours: 36 Lec, 36 Lab
Letter Grade or Credit/No Credit
Prerequisite: BUS 210 or BUS 010.
Recommended Preparation: CIS 101
A practical course in which students will have an opportunity to utilize computerized financial software that is currently being used in the business field. A "case study" will be completed by the students which will help them to gain computer skills. (CSU)

CIS 110 (1.0 UNIT)
WINDOWS OPERATING SYSTEM
Term Hours: 18 Lec, 0 Lab
Letter Grade or Credit/No Credit
Designed to familiarize computer users with the Windows operating system environment that controls the computer. This course covers commands and menus used by Windows to do proper file management, customize the desktop interface, and use the Windows accessories. (CSU)

CIS 120 (1.0 UNIT)
MICROSOFT WORD I
Term Hours: 18 Lec, 0 Lab
Letter Grade or Credit/No Credit
Hands-on practice with the Microsoft Word word processing software using a windows environment. The course is designed for beginners and will focus on document creation including multipage documents; basic editing and text enhancement; line and page formatting; cut, copy, and paste, spell check and thesaurus. (CSU)

CIS 121 (1.0 UNIT)
MICROSOFT WORD II
Term Hours: 18 Lec, 0 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: CIS 120 or CIS 101
Hands on practice with the Microsoft Word word processing software using a windows environment. The course is a continuation of CIS 120, Microsoft Word, and will focus on editing and formatting features including multiple windows and documents, managing files, tables, columns, merge, labels, sort, and graphics. (CSU)

CIS 122 (2.0 UNITS)
DESKTOP PUBLISHING
Term Hours: 36 Lec, 18 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: ART 110 and ART 160.
This course is designed to teach students the fundamentals of desktop publishing. (CSU)

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 applications including templates, spreadsheets, and beginning graphic presentation. (CSU)

CIS 125 (1.0 UNIT)
EXCEL II
Term Hours: 18 Lec, 0 Lab
Letter Grade or Credit/No Credit
A sequence to the CIS 124 course. The course develops expertise in worksheet applications, teaches use of graphic presentations, develops data base use and includes macros. (CSU)

CIS 128 (1.0 UNIT)
ACCESS
Term Hours: 18 Lec, 0 Lab
Letter Grade or Credit/No Credit
A course designed to present the basic database concepts. The student will become acquainted with a windows based business database application and its implementation. (CSU)

CIS 130 (1.0 UNIT)
POWER POINT I
Term Hours: 18 Lec, 0 Lab
Letter Grade or Credit/No Credit
A beginning course in PowerPoint including text formatting, slides, charts, slide shows, embedded and linked objects and hyperlinks. (CSU)

CIS 131 (1.0 UNIT)
POWER POINT II
Term Hours: 18 Lec, 0 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: CIS 130
A continuation of CIS 130 that includes customizing presentations, enhancing charts, embedding objects, using multimedia and other advanced features. (CSU)

CIS 137 (3.0 UNITS)
DREAMWEAVER
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: CIS 101.
Planning, designing and building professional quality Web pages taking into account customers' needs. Includes text formation and selection; use of tables, layers, sounds, images, and video to be placed in the Web sites; use of templates; use of Cascading Style Sheets (CSS); use of color and color combinations; development and use of rollovers, behaviors and automating repetitive tasks; creating forms for visitor surveys, guestbooks, online shopping, and other types of data collection. Also includes basic of Scripts and Scripting languages such as JavaScript and skills for managing Web sites. Covers core objectives for industry certification. (CSU)

CIS 149 (3.0 UNITS)
PHOTOSHOP
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: CIS 101.
The course includes an introduction to the basic working environment of Photoshop; basic photo corrections; retouching and repairing; working with selections; layer basics; masks and channels; correcting and enhancing digital photographs; advanced layer techniques; advanced compositing; and web publishing techniques. The student will create an integrated project that simulates a real-world graphic design job, drawing on the skills learned. (CSU)

CIS 155 (3.0 UNITS)
FLASH
Term Hours: 54 Lec, 0 Lab
Letter Grade only
CIS 155 provides a comprehensive yet concise introduction to Flash. The course begins with a discussion of fundamental concepts, which provides a context for learning and sets the stage for specific Flash skill development. A series of step-by-step tutorials follows, covering the range of basic to intermediate skills, including creating animations, using special effects, drawing objects, incorporating sound and video, and using ActionScript. Ultimately, advanced skills will be explored along with coverage of the updated features of Flash - such as enhancements to the workspace, positioning and working with objects in 3D spaces, producing interactive movies and navigation systems, importing Photoshop and Illustrator files, the Flash planning and workflow processes, and the Help feature - make this course an indispensable experience for anyone who wants to take full advantage of the program. (CSU)

CIS 202 (3.0 UNITS)
PROGRAMMING IN VISUAL BASIC
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: CIS 101
This course introduces event driven computer programming using the Visual Basic Programming language. Topics include building an interface with objects, modular design, programming structures, working with files, and other related topics. (CSU, UC)

CIS 210 (3.0 UNITS)
PROGRAMMING IN C++
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: CIS 101 and CIS 202.
A course in programming using C++. Syntax of the language will be emphasized. Operating systems, comparative programming languages, data structures, graphics, numerical analysis, programming methodology, and scientific and business applications will also be covered. (CSU, UC)

CIS 212 (3.0 UNITS)
XHTML, CSS, AND JAVASCRIPT
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: CS 101.
This course introduces students to the Extensible Hypertext Markup Language (XHTML) and Cascading Style Sheets (CSS) languages used to create and style web pages. Topics include remote development using a web server, page construction using XHTML, page layout using CSS, selectors and the box model, creating accessible tables, getting user input using XHTML forms and other related topics. This course also includes adding interactivity to Web pages using JavaScript. (CSU)

CIS 214 (3.0 UNITS)
PHP AND MYSQL
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: CIS 101, CIS 212
This course introduces students to the PHP programming language, the MySQL relational database system commonly used to create dynamic websites. Topics include PHP syntax, using phpMyAdmin, creating tables and queries using SQL, web application security, frameworks, and other related topics. It also includes basics of using content management systems for managing website content. (CSU)

COMPUTER SCIENCE

CS 170 (3.0 UNITS)
INTRODUCTION TO UNIX/LINUX
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Recommended Preparation: Familiarity with computers and at least one operating system: Windows, Mac OS, or Unix/Linux.
A hands on introduction to Unix operating systems including Linux, Solaris and Mac OS X Tiger. Topics include terminology, E-mail, utilities, file structure, and concepts of shell script programming, advanced utilities, file management, and alternative editors. Includes usage of sed (stream editor), awk (a Unix scripting language), and graphical user interfaces. (CSU, UC)

CS 220 (4.0 UNITS)
INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING USING JAVA
Term Hours: 54 Lec, 54 Lab
Letter Grade only
Recommended Preparation: MATH 090 or equivalent, and CIS 202 or CIS 204 or CIS 208 or equivalent, with a grade of "C" or better.
This course provides an introduction to object-oriented programming using the Java programming language. Topics included (but not limited to) in this course are fundamentals of structured computer programming, primitive data types, expressions, control statements, methods, arrays, searching, sorting, and debugging. Emphasis is on learning through hands-on programming exercise. (CSU, UC)

CS 230 (4.0 UNITS)
INTERMEDIATE OBJECT-ORIENTED PROGRAMMING USING JAVA
Term Hours: 54 Lec, 54 Lab
Letter Grade only
Prerequisites: CS 210 or CS 220 or equivalent with a grade of "C" or better.
This course provides an intermediate treatment of object-oriented programming using the Java programming language. Topics included (but not limited to) in this course are abstract classes, inheritance, polymorphism, interfaces, graphical user interfaces (GUI), graphics, event-driven programming, exception handling, file input, file output, and applets. Emphasis is on learning through hands-on programming exercises. (CSU, UC)

CS 280 (4.0 UNITS)
ASSEMBLY LANGUAGE AND MACHINE ORGANIZATION
Term Hours: 54 Lec, 54 Lab
Letter Grade only
Prerequisites: CS 210 or CS 220 or equivalent, and MATH 090 or equivalent, with grades of "C" or higher.
A course covering general concepts of internal organization of a computer, machine and assembly language. Topics include number system and data representation, primitive instructions and operations, program execution, addressing techniques, arrays, subroutines, macros, recursion, virtual memory, cache memory interrupt handling, and memory management. (CSU, UC)

CORRECTIONAL SCIENCE

CSI 100 (3.0 UNITS)
INTRODUCTION TO CORRECTIONS
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.
A study and survey of the history, philosophy and trends of adult and juvenile corrections processes. The relationship between corrections and other components of the judicial system will be examined. (CSU)

CSI 102 (3.0 UNITS)
CONCEPTS OF CRIMINAL LAW
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Completion of ENGL 101 and ENGL 111 with a grade of "C" or better.
The course covers the historical development of law and constitutional provisions; definitions and the classification of crime and their application to the system of administration of justice; legal research, study of case law, methodology, and concepts of law as a social force are presented. Crimes against persons, property, government, and organized crime are discussed. (Same as AJ 102) (CSU, UC)

CSI 104 (3.0 UNITS)
CONCEPTS OF PROBATION AND PAROLE
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Completion of ENGL 099 (formerly ENGL 100) and ENGL with a grade of "C" or better.
A survey of the historical development of probation and parole from early court procedures through modern practices with an emphasis on the operation of probation and parole agencies in California including such topics as probation and parole laws and procedures. (CSU)

CSI 106 (3.0 UNITS)
CORRECTIONAL INTERVIEWING AND COUNSELING
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.
An overview of the techniques available to practitioners in Corrections in counseling and interviewing. The student will learn the use of appropriate techniques and theories in confidence building which may be used by the correctional employee in client interviews and counseling. A basic course for students planning to enter or already employed within the Correctional Science Field. (CSU)

CSI 108 (3.0 UNITS)
CONTROL AND SUPERVISION OF INMATES
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.
An overview of supervision of inmates in the local, state and federal correctional institutions. The issues of control in a continuum from institutional daily living through crisis situations will be introduced and discussed. The course will emphasize the role played by the offender and the correctional worker. Introduces inmate subculture, violence and effects of crowding on inmates and staff, addresses coping techniques for correctional officers in a hostile prison environment while discussing causes and effects of abusive tactics. (CSU)

CSI 120 (3.0 UNITS)
PUBLIC SAFETY COMMUNICATIONS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Completion of ENGL 101 and ENGL 111 with a grade of "C" of better.
This is an introductory course dealing with all aspects of public safety communication. It will cover the techniques to effectively communicate facts, information, and ideas in a clear and logical manner for a variety of public safety systems reports, crime violations, incident reports, letters, memorandum, directives, and administrative reports. Emphasis on criminal justice terminology, use of English, and organization of information. Students will gain practical experience in note taking, interviewing, report writing, and presentation of testimony in courts. (Same as AJ 120) (CSU)

DISABLED STUDENTS PROGRAMS AND SERVICES

DSPS 005 (1.0 UNIT)
RECREATION FOR SPECIAL GROUPS
Term Hours: 0 Lec, 36 Lab
Credit/No Credit only
Intensive therapeutic recreation for severely disabled persons in the community. Through repetitive instruction, the student will develop individual and group skills in recreational activities modified for their developmental disabilities. Maximum credit four units. (Nontransferable, nondegree applicable)

DSPS 012 (1.0 UNIT)
ACADEMIC SUPPORT SERVICES
Term Hours: 0 Lec, 36 Lab
Credit/No Credit only
This course is designed to provide academic support services to the disabled students who are taking classes in the areas of natural science and math; behavioral and social sciences; humanities, fine arts and foreign language; English and speech; and vocational-occupational programs. In addition, the course is designed to assist students in developing their basic skills. Maximum credit sixteen units. (Nontransferable, nondegree applicable)

DSPS 018 (0.5 UNITS)
EDUCATIONAL ASSESSMENT AND EVALUATION
Term Hours: 0 Lec, 162 Lab
Credit/No Credit only
Recommended Preparation: Must be enrolled in at least one academic or vocational class.
This course is designed specifically to assist the learning disabled student who has the potential to succeed in a community college by assessing, interpreting, and diagnosing his/her learning strengths and weaknesses for the purpose of identifying learning disabilities. Guidelines mandated by the California Community College system will be utilized to determine eligibility for learning disabilities services and accommodations. Upon completion of this course, students will be better prepared to assert their needs and practice coping strategies pertinent to their unique situation. (Nontransferable, nondegree applicable)

DSPS 020 (3.0 UNITS)
MATH FOR STUDENTS WITH LEARNING DIFFERENCES
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
This course will teach adults with Learning Differences to understand the number system used in the United States and to solve problems involving addition and subtraction of whole numbers. Emphasis will be placed on reading and writing whole numbers of all amounts, writing words for whole numbers, demonstrating an understanding of place value, and using addition and subtraction of whole numbers to solve simple, everyday-type problems. (Nontransferable, nondegree applicable)

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 problems involving multiplication of whole numbers and division of whole numbers. (Nontransferable, nondegree applicable)

DSPS 024 (3.0 UNITS)
MATH FOR STUDENTS WITH LEARNING DIFFERENCES
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: DSPS 022.
This course will teach adults with Learning Differences to solve problems involving addition, subtraction, multiplication, and division of fractions. (Nontransferable, nondegree applicable)

DSPS 026 (3.0 UNITS)
MATH FOR STUDENTS WITH LEARNING DIFFERENCES
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: DSPS 024.
This course will teach adults with Learning Differences to solve problems involving decimals and percents. (Nontransferable, nondegree applicable)

DSPS 030 (4.0 UNITS)
READING AND SPELLING FOR STUDENTS WITH LEARNING DIFFERENCES
Term Hours: 72 Lec, 18 Lab
Letter Grade or Credit/No Credit
Prerequisite: Need for basic instruction based on placement tests and individual interview.
This course will teach adults with learning differences to read and to spell phonetically regular words in the context of written sentences with an emphasis on one- and two-syllable words having only short vowels, 40 sight words and the spelling rule dealing with doubling the final consonant in one-syllable words. (Nontransferable, nondegree applicable)

DSPS 032 (4.0 UNITS)
READING AND SPELLING FOR STUDENTS WITH LEARNING DIFFERENCES
Term Hours: 72 Lec, 18 Lab
Letter Grade or Credit/No Credit
This course is a continuation of DSPS 030 with an emphasis on one-syllable words with a silent final e, words with diagraphs, 50 sight words, two-syllable words with short vowels and vowel-consonant-e syllables, and two-syllable words with the first syllable open and the second syllable having a short vowel or vowel-consonant-e. (Nontransferable, nondegree applicable)

DSPS 034 (4.0 UNITS)
READING AND SPELLING FOR STUDENTS WITH LEARNING DIFFERENCES
Term Hours: 72 Lec, 18 Lab
Letter Grade or Credit/No Credit
This course is a continuation of DSPS 032 with an emphasis on various sounds of consonants, diphthongs, and various suffixes. (Nontransferable, nondegree applicable)

DSPS 036 (4.0 UNITS)
READING AND SPELLING FOR STUDENTS WITH LEARNING DIFFERENCES
Term Hours: 72 Lec, 18 Lab
Letter Grade or Credit/No Credit
This course is a continuation of DSPS 034 with an emphasis on contractions, silent consonants, various spellings of vowel and consonant sounds, and spelling rules dealing with adding suffixes to any word. (Nontransferable, nondegree applicable)

DSPS 040 (2.0 UNITS)
TACTILE ART FOR THE DISABLED
Term Hours: 0 Lec, 72 Lab
Credit/No Credit only
This course is designed to enrich the aesthetic experience of the disabled. Students will explore various art media and methods. Maximum credit eight units. (Nontransferable, nondegree applicable)

DSPS 044 (2.0 UNITS)
CURRENT ISSUES
Term Hours: 36 Lec, 0 Lab
Credit/No Credit only
This course develops a set of skills that will improve the ability to comprehend, analyze and apply conversational techniques to current issues. Maximum credit eight units. (Nontransferable, nondegree applicable)

DSPS 050 (1.0 UNIT)
ADAPTED KEYBOARDING
Term Hours: 0 Lec, 18 Lab
Credit/No Credit only
Prerequisite: A student must be eligible for services and instruction from the Disabled Student Programs and Services through appropriate verification of a primary disability by certificated personnel and be able to benefit from the programs and services offered by the High Tech Center.
This course is designed to teach keyboarding basics to disabled students who must use adaptive learning technologies for successful access to computer hardware and software used for other mainstream basic skills support courses. (Nontransferable, nondegree applicable)

DSPS 052 (0.5 UNITS)
COMPUTER ACCESS EVALUATION
Term Hours: 0 Lec, 18 Lab
Credit/No Credit only
Prerequisite: A student must be eligible for services and instruction from the Disabled Student Programs and Services through appropriate verification of a primary disability by certificated personnel and be able to benefit from the programs and services offered by the High Tech Center.
This course is designed to help students with a disability or multiple disabilities, to understand their computer usage capabilities and to determine, through an instructor evaluation, the appropriate hardware and software. (Nontransferable, nondegree applicable)

DSPS 054 (1.0 UNIT)
COMPUTER ACCESS I
Term Hours: 0 Lec, 36 Lab
Credit/No Credit only
Prerequisite: A student must be eligible for services and instruction from the Disabled Student Programs and Services through appropriate verification of a primary disability by certificated personnel and be able to benefit from the programs and services offered by the High Tech Center. DSPS 036 is required if a student does not have adequate typing skills.
Designed for students with visual, physical, language impairment, learning disabilities or deafness. This course provides training in the use of computer access technologies which enhance a disabled student's ability to access and use PC's which are used for other basic skills support courses. (Nontransferable, nondegree applicable)

DSPS 056 (2.0 UNITS)
COMPUTER ACCESS II
Term Hours: 18 Lec, 36 Lab
Credit/No Credit only
Prerequisite: A student must be eligible for services and instruction from the Disabled Student Programs and Services through appropriate verification of a primary disability by certificated personnel and be able to benefit from the programs and services offered by the High Tech Center.
This course is designed for disabled students who have successfully completed Computer Access I (DSPS 054). Students will enhance their computer access skills through the completion of assignments and/or projects. This will allow them to use PC's in other basic skills support courses. (Nontransferable, nondegree applicable)

DSPS 058 (3.0 UNITS)
COMPUTER ACCESS PROJECTS
Term Hours: 0 Lec, 72 Lab
Credit/No Credit only
Prerequisite: A student must be eligible for services and instruction from the Disabled Student Programs and Services through appropriate verification of a primary disability by certificated personnel and be able to benefit from the programs and services offered by the High Tech Center. Instructor permission is required.
The course is designed for students with a disability who require access to specialized adaptive technologies in order to complete assignments for other classes in which they are concurrently enrolled. (Nontransferable, nondegree applicable)

DSPS 240 (3.0 UNITS)
UNDERSTANDING EXCEPTIONAL STUDENTS
Term Hours: 36 Lec, 36 Lab
Letter Grade only
Recommended Preparation: CDEV/PSY 104 (formerly CFCS/PSY 106) or PSY 101.
A psychoeducational approach to the study of exceptional students including physical, mental, emotional, sensory, speech, and learning disabilities. Designed for parents, as well as for teachers and paraprofessionals working with exceptional students. Surveys the entire exceptional spectrum through observation, participation and lecture. Students will learn how to develop teaching strategies for all the exceptions. (Same as EDUC 240) (CSU)

DSPS 242 (2.0 UNITS)
PRACTICUM EXPERIENCE TO WORK WITH THE DISABLED PERSON
Term Hours: 18 Lec, 54 Lab
Letter Grade only
Recommended Preparation: DSPS/EDUC 240 and PSY 101.
A course designed to extend the experience of Rehabilitation Technician majors who wish to explore a specific area of contact with disabled individuals. Experience may be gained on the college campus or in the field with deaf, blind, or orthopedically handicapped individuals. Maximum credit four units. (Same as EDUC 242) (CSU)

DSPS 250 (3.0 UNITS)
WORKING WITH AUTISTIC CHILDREN
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
This course is designed to instruct direct care workers about autism, and introduce students to various treatment methods used with children who have autism. Students will learn what autism is, treatment methods used with these students and how to integrate children with autism into a setting with typically developing children. (Same as EDUC 250) (CSU)

ECONOMICS

ECON 101 (3.0 UNITS)
INTRODUCTION TO MICRO ECONOMICS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisites: MATH 090 with a grade of "C" or better.
An introduction to economic concepts and the principles of economic analysis. Emphasis on economic institutions, issues of public policy, and microanalysis in the direction of production and the allocation of resources through the price-system. (CSU, UC)

ECON 102 (3.0 UNITS)
INTRODUCTION TO MACRO ECONOMICS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisites: MATH 090 with a grade of "C" or better.
An introduction to economic concepts and the principles of economic analysis. Emphasis on economic institutions, issues of public policy, and macroanalysis in gross domestic product, money and banking, international business, and economic stabilization. (CSU, UC)

EDUCATION

EDUC 202 (1.0 UNIT)
TUTOR TRAINING
Term Hours: 18 Lec, 0 Lab
Credit/No Credit only
Recommended Preparation: Successful completion of 12 college units with a "2.5" grade point average or better.
This course is designed to prepare college-level persons to tutor adult/college students. Introduction to adult learners, tutoring methods, use of appropriate written and mediated instructional materials, and supervised practice tutoring are included in this course. (CSU)

EDUC 240 (3.0 UNITS)
UNDERSTANDING EXCEPTIONAL STUDENTS
Term Hours: 36 Lec, 36 Lab
Letter Grade only
Recommended Preparation: CDEV 104 (formerly CFCS 106)/PSY 106 or PSY 101.
A psycho-educational approach to the study of exceptional students including physical, mental, emotional, sensory, speech and learning disabilities. Designed for parents, as well as for teachers and paraprofessionals working with exceptional students. Surveys the entire exceptional spectrum from gifted to retarded through observation, participation and lecture. Students will learn how to develop teaching strategies for all the exceptions. (Same as DSPS 240) (CSU)

EDUC 242 (2.0 UNITS)
PRACTICUM EXPERIENCE TO WORK WITH THE DISABLED PERSON
Term Hours: 18 Lec, 54 Lab
Letter Grade only
Recommended Preparation: DSPS/EDUC 240 and PSY 101.
A course designed to extend the experience of Rehabilitation Technician majors who wish to explore a specific area of contact with disabled individuals. Experience may be gained on the college campus or in the field with deaf, blind or orthopedically handicapped individuals. (Same as DSPS 242) (CSU)

EDUC 250 (3.0 UNITS)
WORKING WITH AUTISTIC CHILDREN
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course is designed to instruct direct care workers about autism, and introduce students to various treatment methods used with children who have autism. Students will learn what autism is, treatment methods used with these children, and how to integrate children with autism into a setting with typically developing children. (Same as DSPS 250) (CSU)

ELECTRICAL TRADES

ELTT 101 (4.0 UNITS)
ELECTRICAL TRADES I
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Basic mathematical functions and computations as they pertain to electricity and electronics. Introduction to basic principles of electricity, AC/DC circuits, electromagnetism, symbols, schematic diagrams, and fundamental safety skills as they pertain to on-the-job-skills. (Nontransferable, AA/AS degree only)

ELTT 102 (4.0 UNITS)
ELECTRICAL TRADES II
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite: ELTT 101 - Electrical Trades I.
Designed to give the apprentice an overview of transmission and distribution systems (T&D), and the various components used in the utility industry. Additional topics will include high voltage AC power, study of electrical diagrams, safety in the workplace, and a section on rope, rigging, and hand signals. (Nontransferable, AA/AS degree only)

ELTT 103 (4.0 UNITS)
ELECTRICAL TRADES III
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite: ELTT 102 - Electrical Trades II.
An introduction to framing, setting, guying poles, installation of conductors and grounds, and the laying out and constructing of an underground line system. (Nontransferable, AA/AS degree only)

ELTT 104 (4.0 UNITS)
ELECTRICAL TRADES IV
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite: ELTT 103 - Electrical Trades III.
Instruction in maintenance line distribution and underground line maintenance. Nontransferable, AA/AS degree only)

ELECTRICAL WIRING

EWIR 110 (4.0 UNITS)
ELECTRICAL PRINCIPLES
Term Hours: 36 Lec, 108 Lab
Letter Grade only
This course provides the electrical student with instruction in the basic principles of electrical safety. Instruction will include an introduction to electrical theory and test equipment, the use of NEC boxes, fittings and conductors, and the interpretation of related electrical blueprints and commercial/industrial/residential symbols, diagrams, and schematics used for wiring. Electrical principles of residential wiring will be the focus of instruction. (Nontransferable, AA/AS degree only)

EWIR 115 (4.0 UNITS)
ELECTRICAL WIRING AND PROTECTION
Term Hours: 36 Lec, 108 Lab
Letter Grade only
Recommended Preparation: EWIR 110.
This course covers wiring installation and connection for conductor termination and splices; use of cable pulling instruments and NEMA and NEC standards for cable tray; installation of electrical service and electrical protection components and equipment; use of material take-off methods and troubleshooting techniques; identification of ratings for current breakers and fuses; regulations for sizing use and installation of relay switches, conductors and overrides; and application. (Nontransferable, AA/AS degree only)

EWIR 125 (4.0 UNITS)
ELECTRICAL FEEDER SERVICE AND CIRCUITS
Term Hours: 36 Lec, 108 Lab
Letter Grade only
Recommended Preparation: EWIR 115.
This course includes instruction in feeder service and branch load calculations for circuits and electrical appliances; introduction to and identification of electrical constructors; devices used for overprotection of loads, currents, circuits and fuses; fill requirements for boxes/raceways; principles of wiring devices, switches and receptacles and their locations; requirements for distribution equipment; settings for voltage, switch gear, circuits, and components; distribution system transformers and their characteristics; types of components; NEC requirements; methods for locating and troubleshooting problems. (Nontransferable, AA/AS degree only)

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. (Nontransferable, AA/AS degree only)

ELECTRONICS

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 devices included in circuits, instrumentation, various system designs, successive "generations." (CSU)

ELTR 240 (3.0 UNITS)
DIGITAL LOGIC CIRCUITS
Term Hours: 36 Lec, 54 Lab
Letter Grade only
Recommended Preparation: ELTR 220
A continuation of ELTR 220. The advanced study of applied digital electronic systems such as those found in computing, audiovisual, and other electromechanical equipment. (CSU)

EMERGENCY MEDICAL TECHNICIAN

EMT 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 defibrillation 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 FIRE 105) (CSU)

EMT 107 (2.0 UNITS)
EMERGENCY MEDICAL TECHNICIAN 1 - 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 b 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 FIRE 107) (CSU)

EMERGENCY MEDICAL TECHNICIAN - PARAMEDIC

EMTP 200 (9.0 UNITS)
EMT - PARAMEDIC DIDACTIC 1
Term Hours: 144 Lec, 54 Lab
Letter Grade only
Recommended Preparation: AHP 100.
Corequisites: BIOL 090.
Prerequisites: Current certification as an EMT I, EMT II or certification within previous 12 months or current RN license. High school graduate or successful completion of GED. One year field experience as an EMT I or 1 year as ER RN. Successful completion of application process. Acceptance into program by EMT Training Coordinator and EMT Training Medical Director. Pass, by pre-established score on English and math proficiency exam. Current CPR certification. Pass EMT proficiency with score of 80% or better.
This course is the first phase of training to instruct professional public safety personnel in the skill of the administration of pre-hospital advanced life support. The course will teach the student roles and responsibilities, the EMS system, medical-legalities, EMS communication, rescue techniques, hazardous materials management, mass casualty and stress of the EMS provider. This course will cover medical terminology, patient assessment, airway and ventilation, shock, pathophysiology, signs/systems, paramedic treatments including skills available to the paramedic. Obstetrical/Gynecological emergencies will be included. Behavioral emergencies and how the ALS provider can deal with them are included. The course is an intensive one, requiring the student's total dedication for successful completion of the course. The student must realize that more than usual study and TBA requirements must be met throughout the program. (CSU)

EMTP 210 (9.0 UNITS)
EMT - PARAMEDIC DIDACTIC 2
Term Hours: 144 Lec, 54 Lab
Letter Grade only
Prerequisites: Successful completion of EMTP 200. Successful completion of all other requirements for entrance into the paramedic program. Approval of IVC's EMS Training Coordinator and IVC's EMS Training Medical Director.
Recommended Preparation: NURS 214.
This course is designed to allow progression of the paramedic student in advanced didactic and skills training, and progression towards eligibility to become certified as a paramedic in the state of California. This course will teach the student to understand all aspects of medical emergencies, including respiratory, cardiovascular, endocrine, and nervous system emergencies. Acute abdomen, genitourinary, and reproductive system emergencies, as well as, anaphylaxis, toxicology, alcoholism and drug abuse, infectious diseases, environmental injuries and geriatric emergencies will be included. Emergency care of the pediatric patient will be covered. Anatomy and physiology, pathophysiology, signs/symptoms and pre-hospital advanced life support, paramedic treatment will be included. The paramedic student must realize that more than usual study requirements must be met for successful completion of this course. (CSU)

EMTP 215 (5.0 UNITS)
EMT - PARAMEDIC DIDACTIC 3
Term Hours: 72 Lec, 54 Lab
Letter Grade only
Prerequisites: Successful completion of EMTP 200 and EMTP 210; and successful completion of all other requirements for entrance into and/or continuation in the IVC paramedic program; and approval of the IVC Paramedic Program Director and IVC Paramedic Program Medical Director.
This course is the third phase of training to prepare individuals to render prehospital advanced life support within an organized EMS system based on course content that is equivalent to the U.S. Department of Transportation (DOT) Emergency Medical Technician-Paramedic National Standard Curriculum HS 808 862 March 1999. This course is designed to allow progression of the paramedic student in advanced didactic and skills training. This course will cover assessment-based management, all aspects of operations, including: ambulance operations, medical incident command (SEMS-ICS), rescue awareness and operations, desert rescue, hazardous materials, crime scene awareness, rural EMS, bioterrorism and weapons of mass destruction. Included in this course will be the American Heart Association Advanced Cardiac Life Support (ACLS) Course, as well as paramedic treatments and skills associated with the above core content. This course is an intense one, requiring the student's total dedication for successful completion. The student must realize that more than usual study and TBA requirements must be met throughout the program. This program is accredited by CAAHEP. (CSU)

EMTP 225 (3.5 UNITS)
EMT - PARAMEDIC CLINICAL I
Term Hours: 0 Lec, 189 Lab
Letter Grade only
Prerequisite(s): 1. Successful completion of EMTP 200, EMTP 210, EMTP 215; and, 2. Successful completion of all other requirements for entrance into and/or continuation in the IVC paramedic program; and, 3. Approval of the IVC Paramedic Program Director and IVC Paramedic Program Medical Director.
This course is the clinical hospital phase of training to prepare individuals to render prehospital advanced life support within an organized EMS system based on course content that is equivalent to the U.S. Department of Transportation (DOT) Emergency Medical Technician-Paramedic National Standard Curriculum HS 808 862 March 1999. This course is designed to allow progression of the paramedic student intern in advanced didactic and skills training, and enables the paramedic student intern to put all didactic and skills training together within the hospital setting. This course will cover all aspects of medical and traumatic emergencies, enabling the student intern to perform total patient assessment and care under the supervision of a licensed registered nurse, physician assistant or physician approved by the Local EMS Authority. Instruction and supervised practice at the paramedic level will be performed in the critical care unit, the emergency department, the labor department, newborn nursery, pediatric unit and the operating room. This phase of clinical internship provides the student intern with a progression to total patient care responsibilities, using all assessment skills, communication skills, all advanced life support equipment, medications, procedures and paramedic skills acquired through didactic and skills labs. The hospital practice shall not be limited to the development of practical skills alone, but shall include knowledge and techniques regarding overall administration of advanced life support treatment in the clinical hospital setting. This course is an intense one, requiring the student intern's total dedication for successful completion. The student intern must realize that more than usual study and TBA requirements must be met throughout the program. This program is accredited by the CAAHEP. (CSU)

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, EMTP 215, EMTP 225 (or EMTP 220/EMTP 230); and, 2. successful completion of all other requirements for entrance into and/or continuation in the IVC paramedic program; and, 3. approval of the IVC Paramedic Program Director and IVC Paramedic Program Medical Director; and, 4. Student Intern may enter/reenter EMTP 235 up to 1 year after completion of the previous prerequisites with prior mutual agreement between the IVC Program Director, IVC Medical Director and the Student Intern; and completion of any required remedial training.
This course is the first phase of field internship training to prepare individuals to render pre-hospital advanced life support within an organized EMS system based on course content that is equivalent to the U.S. Department of Transportation (DOT) Emergency Medical Technician-Paramedic National Standard Curriculum HS 808 862 March 1999. This course is designed to allow progression of the paramedic student in advanced skills training and didactic knowledge within the pre-hospital setting. This course will cover all aspects of medical and traumatic emergencies, enabling the student intern to perform total patient assessment and care under the supervision of a licensed paramedic approved by the Local EMS Authority, on an Advanced Life Support vehicle. This phase of field internship provides the student intern with a progression of increasing patient care responsibilities which proceeds from observation, to working as a team member to working as the team leader. After progressing through record keeping and participation in actual patient care, the student shall ultimately function as the patient care leader. This course is an intense one, requiring the student intern's total dedication for successful completion. In addition to scheduled field time, the student must complete 30 advanced life support contacts as defined in the California Code of Regulations, Title 22, Div. 9. The student intern must realize that more than usual study and TBA requirements must be met throughout the program. This program is accredited by the CAAHEP. (CSU)

EMTP 245 (5.5 UNITS)
EMT - PARAMEDIC FIELD II
Term Hours: 0 Lec, 297 Lab
Letter Grade only
Prerequisite(s): 1. Successful completion of EMTP 200, EMTP 210, EMTP 215, EMTP 225, and EMTP 235; and, 2. Successful completion of all other requirements for entrance into and/or continuation in the IVC paramedic program; and, 3. Approval of the IVC Paramedic Program Director and IVC Paramedic Program Medical Director. 4. Student Intern may enter/re-enter EMTP 245 up to one year after completion of the previous prerequisites with prior mutual agreement between the IVC program director, IVC medical director and the student intern; and completion of any required remedial training. 5. Student intern may petition for exemption from this course providing: a. Student intern is currently certified as an EMT-II with a minimum of 1 year experience. b. Student intern demonstrates completion of an EMT-II program with training and training hours equivalent to IVC's EMT-II program. c. Student intern completes all other paramedic training program requirements. d. Student intern has approval of the IVC program director and IVC medical director. e. Student intern successfully completes EMT-II proficiency exam.
This course is the second phase of field internship training, and the final segment of the paramedic program, to prepare individuals to render prehospital advanced life support within an organized EMS system based on course content that is equivalent to the U.S. Department of Transportation (DOT) Emergency Medical Technician-Paramedic National Standard Curriculum HS 808 862 March 1999. This course is designed to allow progression of the paramedic student intern in advanced skills training and didactic knowledge within the pre-hospital setting. This course will cover all aspects of medical and traumatic emergencies, enabling the student intern to perform total patient assessment and care under the supervision of a licensed paramedic approved by the Local EMS Authority, on an Advanced Life Support vehicle. This phase of field internship provides the student intern with a progression to total patient care responsibilities, using all assessment skills, communication skills, all advanced life support equipment, medications, procedures and paramedic skills acquired through previous phases of the training program. The student intern will function as an entry-level paramedic at the completion of this training. This course is an intense one, requiring the student intern's total dedication for successful completion. In addition to scheduled field time, the student must complete an additional 10 advanced life support contacts, for a total of 40 or more, as defined in the California Code of Regulations, Title 22, Division 9. The student intern must realize that more than usual study and TBA requirements must be met throughout the program. This program is accredited by the CAAHEP. (CSU)

ENGINEERING

ENGR 210 (3.0 UNITS)
STATICS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisites: PHYS 200 with a grade of "C" or higher, and credit or concurrent enrollment in MATH 194.
Force systems, equilibrium, structures, distributed forces, friction, virtual work, moments of inertia, vector algebra. (CSU, UC)

ENGR 212 (3.0 UNITS)
DYNAMICS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: ENGR 210 with a grade of "C" or better, and credit or concurrent enrollment in MATH 194.
Kinetics of a particle; central force motion; systems of particles; work and energy; impulse and momentum; moments and products of inertia; Euler's equations of motion; vibration and time response; engineering applications. (CSU, UC)

ENGR 240 (3.0 UNITS)
ELECTRIC CIRCUIT ANALYSIS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisites: MATH 194 and PHYS 202 with grades of "C" or better.
Circuit analysis by reduction methods, source transformations, mesh and nodal analysis. Operational amplifier model, transient analysis, alternating current circuits, impedance, power, phasor diagrams, and three-phase balanced networks. (CSU, UC)

ENGLISH

Prerequisites for English and ESL Classes

The student may meet the prerequisite requirement for English and ESL classes in the following manner, with the following conditions:

1. *Earn the appropriate score for the course on the assessment test for that area; OR*
2. *Earn a grade of "C" or higher for the previous course in the sequence of courses for that area, i.e., ESL, Reading, or Writing.*

Students may use the end-of- semester assessment in Reading to earn a score high enough to skip one level or more when advancing in the Reading sequence.

Note: End-of-semester assessment test scores DO NOT allow a student to advance in the ESL, Reading, or Writing sequence of courses when a "D" or an "F" has been earned, in which case the student must repeat the unsuccessful course.

Students disagreeing with their placement standing as indicated by the assessment test score for ESL, Reading, or Writing may challenge their placement status through the Credit-by-Examination process, taking a comprehensive test over the course that serves as the prerequisite. (See Credit-by-Exam in the IVC General Catalog.) Upon passing the comprehensive examination, the student will have earned credit for the course in question, thereby satisfying the prerequisite.

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. (Nontransferable, nondegree applicable)

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 certificated instructor diagnoses writing deficiencies and prescribes remediation. Individual assignments are given for improving problem areas in grammar, usage, rhetorical skills, and to eliminate non-English language interference. The course is designed to assist students in any course(s) requiring writing skills. The 36 required hours will be set by arrangement with the student and must be undertaken in the Reading/Writing Lab. Students must check in at the Writing Lab during the first two weeks of class. Maximum credit four units. (Nontransferable, nondegree applicable)

ENGL 052 (1.0 UNIT)
INDIVIDUALIZED READING SKILLS

Term Hours: 0 Lec, 36 Lab
Credit/No Credit only
Recommended Preparation: Eligibility for ENGL 093, ENGL 084, or higher by means of the ESL, the reading test, or holistic essay placement exam.
Students wishing to improve their reading skills independently may enroll in this one unit, individualized course. The lab instructor provides assignments leading to improvement in vocabulary skills, comprehension skills, and computer-assisted reading speed improvement. Students must check in at the Reading Lab during the first two weeks of class. Maximum credit four units. (Nontransferable, nondegree applicable)

ENGL 053 (1.0 UNIT)
LIBRARY RESOURCES AND RESEARCH PAPER

Term Hours: 18 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Eligibility for ENGL 098 and ENGL 088.
Use of library facilities, especially the card catalog, reference books, indexes to periodicals, and computer databases as a basis for research in any field. Techniques of preparation for a research paper with a bibliography are included. Discussion of various style guides will take place. Students may use this course to assist them in writing a research (term) paper for other courses. Helpful to an individual from the community who wishes to use the library to keep up to date on the latest developments and to compile a bibliography in an area(s) of interest. (Nontransferable, nondegree applicable)

ENGL 054 (0.5 UNITS)
MENTORED READING SKILLS

Term Hours: 0 Lec, 18 Lab
Letter Grade only
Recommended Preparation: Eligibility for ENGL 086, ENGL 087, or ENGL 088.
Students enrolled in the Basic Skills reading class will enroll in this one-half unit lab component to help increase their reading abilities. The instructor of record and class tutors will work directly with the student to provide assistance with vocabulary development, comprehension skills, and reading skills improvement. (Nontransferable, nondegree applicable)

ENGL 059 (3.0 UNITS)
GRAMMAR AND USAGE REVIEW
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Eligibility for ENGL 098.
Review of traditional/structural grammar; review of usage rules regarding punctuation, mechanics, capitalization; review of spelling rules; practice with summary/report writing done by the student. (Nontransferable, nondegree applicable)

ENGL 060 (3.0 UNITS)
PRACTICAL ENGLISH FOR THE WORKPLACE
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Appropriate ESL placement recommendation and/or completion of ENGL 093.
Multi-level, multi-content (such as employability skills, workplace survival skills, and workplace social skills) instruction in English as a Second Language for students wanting to have careers in vocational areas, such as Automotive Technologies, Office Technologies and Early Childhood Education. The course emphasizes the vocabulary and grammar of English within the context of the workplace. Maximum credit six units. (Nontransferable, AA/AS degree only)

ENGL 071 (1.0 UNIT)
SPELLING
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Diagnosis of specific spelling problems and prescription of remedies; investigation of the basic spelling rules. Maximum credit two units. (Nontransferable, nondegree applicable)

ENGL 086 (3.5 UNITS)
READING II: BASIC DEVELOPMENT
Term Hours: 54 Lec, 18 Lab
Letter Grade only
Prerequisite: ENGL 085 with a grade of "C" or higher or appropriate placement.
A course at the lower intermediate level, first semester, for the student needing additional instruction in comprehension, vocabulary and study skills. Emphasis will be on fundamental understanding of texts, and increasing word knowledge. Participation in instructor-assigned reading lab activities is a required part of the course. (Nontransferable, nondegree applicable)

ENGL 087 (3.5 UNITS)
READING II: BASIC DEVELOPMENT
Term Hours: 54 Lec, 18 Lab
Letter Grade only
Prerequisite: ENGL 086 with a grade of "C" or higher or appropriate placement.
A course at the lower intermediate level, second semester, for the student needing additional instruction in comprehension, vocabulary and study skills. Emphasis will be on fundamental understanding of texts, and increasing word knowledge. Participation in instructor-assigned reading lab activities is a required part of the course. (Nontransferable, nondegree applicable)

ENGL 088 (3.5 UNITS)
READING III: INTERMEDIATE DEVELOPMENT
Term Hours: 54 Lec, 18 Lab
Letter Grade only
Prerequisite: ENGL 087 with a grade of "C" or higher or appropriate placement.
A course at the upper intermediate reading level, first semester, designed to refine those skills designated in ENGL 086/087. Includes additional instruction in study skills, outlining, previewing, summarizing, and critical reading. Participation in instructor-assigned reading lab activities is a required part of the course. (Nontransferable, nondegree applicable)

ENGL 089 (3.5 UNITS)
READING IV: INTERMEDIATE DEVELOPMENT
Term Hours: 54 Lec, 18 Lab
Letter Grade only
Prerequisite: ENGL 088 with a grade of "C" or higher or appropriate placement.
This course aims to build reading efficiency to college level to ensure reading competency for graduation from IVC and/or successful completion of transfer level courses. Course work includes practice in whole chapter note-taking, vocabulary building, study reading, informed reading of literature, and reinforcement of critical thinking skills. Participation in instructor-assigned reading lab activities is a required part of the course. (Nontransferable, AA/AS degree only)

ENGL 096 (3.0 UNITS)
WRITING FUNDAMENTALS, FIRST SEMESTER
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: ENGL 095 with a grade of "C" or higher or appropriate placement.
Preparation for English 097. Intensive instruction in grammar and punctuation and the writing of short paragraphs. Designed for the student needing to acquire basic writing skills and to overcome language transfer interference. Follows in sequence from ENGL 095. Taught simultaneously with ENGL 097. (Nontransferable, nondegree applicable)

ENGL 097 (3.0 UNITS)
WRITING FUNDAMENTALS, SECOND SEMESTER
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: ENGL 096 with a grade of "C" or higher or appropriate placement.
Preparation for ENGL 098. Intensive instruction in grammar and punctuation and the writing of paragraphs and a short essay. Designed for the student needing to acquire basic writing skills and to overcome language transfer interference. Follow in sequence from ENGL. Taught simultaneously with ENGL 096. (Nontransferable, nondegree applicable)

ENGL 098 (3.0 UNITS)
BASIC ENGLISH COMPOSITION
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: ENGL 097 with a grade of "C" or higher or appropriate placement.
Preparation for ENGL 099 (Formerly ENGL 100). Provides developmental instruction approaching the college level in paragraph and short essay writing. The course follows in sequence from ENGL 097. (Nontransferable, nondegree applicable)

ENGL 099 (3.0 UNITS)
BASIC ENGLISH COMPOSITION
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: ENGL 098 with a grade of "C" or higher, or appropriate placement. Preparation for ENGL 101. This course seeks to facilitate the student's mastery of the short essay at the college level. This course follows in sequence from ENGL 098. (Formerly ENGL 100) (Nontransferable, nondegree applicable)

ENGL 101 (3.0 UNITS)
READING AND COMPOSITION
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: ENGL 099 (formerly 100) with a grade of "C" or higher or appropriate placement.
The standard course in freshman English. The course seeks to improve the student's ability to understand serious and complex prose and to improve the student's ability to write an exposition that is thoughtful and clear including the production of a well-documented research paper. (CSU, UC)

ENGL 102 (3.0 UNITS)
INTRODUCTION TO LITERATURE
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: ENGL 101 with a grade of "C" or better.
Introduction to the study of poetry, fiction and drama, with further practice in writing. (CSU, UC)

ENGL 111 (3.0 UNITS)
READING IV: ANALYTICAL AND CRITICAL READING
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: ENGL 089 and ENGL 101 with grades of "C" or higher.
Designed to help adequate readers become superior readers. Recommended for college transfer students who wish to develop the critical reading and thinking skills necessary for all types of college level reading. (CSU)

ENGL 201 (3.0 UNITS)
ADVANCED COMPOSITION
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: ENGL 101 with a grade of "C" or better.
Emphasizes critical thinking in reading and writing beyond that achieved in ENGL 101. Written argumentation will focus on deduction and induction, an understanding of the fallacies of language and thought, the application of valid evidence, and refutation. (CSU, UC)

ENGL 202 (1.0 UNIT)
ADVANCED COMPOSITION - HONORS
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Recommended Preparation: ENGL 101 with a grade of B or better.
Corequisite: Current enrollment in ENGL 201.
A roundtable seminar, this course will emphasize reasoned evaluation and "strong sense" critical thinking. Through analytical reading, writing for critical analysis and clarification of life values, and roundtable discussion, students will evaluate the ideas and values assumptions of fifteen great thinkers in relation to their own ideas and values assumptions, as well as to those of other thinkers. (CSU, UC)

ENGL 220 (3.0 UNITS)
SURVEY OF AMERICAN LITERATURE I
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: ENGL 101 with a grade of "C" or better.
Recommended Preparation: ENGL 102.
This course is a survey of American Literature from its beginning through the Civil War, including the Colonial Period (1588-1765), the New Republic (1765-1829), and the American Renaissance (1829-1865). In addition to reading representative works of authors of these periods, students will address historical, social, political, cultural, and religious issues of the time. Reading assignments will include essays, novels, poetry, and short fiction of the time period, as well as criticism of the literature. Students will critically analyze these works in essays, exams, and research papers, as assigned. (CSU, UC)

ENGL 221 (3.0 UNITS)
SURVEY OF AMERICAN LITERATURE II
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: ENGL 101 with a grade of "C" or better.
Recommended Preparation: ENGL 102.
This course is a survey of American Literature from late 19th Century to the present, which includes representative works from Literary Realism (1865-1914), the Modern Age (1914-1945), and the Postmodern Period (1946-Present). In addition to reading representative works of authors of these periods, students will address historical, social, political, cultural, and religious issues of the time. Reading assignments will include essays, novels, poetry, and short fiction of the time period, as well as criticism of the literature. Students will critically analyze these works in essays, exams, and research papers, as assigned. (CSU, UC)

ENGL 222 (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 Greeks, Romans, Middle Ages, and the Renaissance. Emphasis is placed on literature of western culture. (CSU, UC)

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 various kinds of technical reports, descriptions, proposals, and evaluations. Writing assignments will be tailored to the interests of individual students. (CSU)

ENGL 250 (3.0 UNITS)
CREATIVE WRITING
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: ENGL 101 with a grade of "C" or better.
Recommended Preparation: ENGL 102.
Study and application of the principles of literary construction, plus exercises in the writing of imaginative literature, including short story, poetry, drama, and essay. The student may elect to specialize in one of the genres in order to achieve maximum progress. Maximum credit six units. (CSU, UC)

ENGL 270 (3.0 UNITS)
INTRODUCTION TO LINGUISTICS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisites: ENGL 101 with a grade of "C" or better, or equivalent.
This course is designed to introduce students to the field of Linguistics. In this course, students develop an understanding of the nature of language through the study of core areas in linguistics including phonetics, phonology, morphology, syntax, semantics and pragmatics. Students also read, write and think critically about related fields such as psycholinguistics, sociolinguistics, historical linguistics, sign language, animal communication, and artificial intelligence. This course is designed for students who plan to transfer as well as for those with a general interest in linguistics. (CSU, UC)

ENGLISH AS A SECOND LANGUAGE

Prerequisites for English and ESL Classes

The student may meet the prerequisite requirement for English and ESL classes in the following manner, with the following conditions:

1. *Earn the appropriate score for the course on the assessment test for that area; OR*
2. *Earn a grade of "C" or higher for the previous course in the sequence of course for that area, i.e., ESL, Reading, or Writing.*

Students may use the end-of- semester assessment in Reading to earn a score high enough to skip one level or more when advancing in the Reading Sequence.

Note: End-of-semester assessment test scores DO NOT allow a student to advance in the ESL, Reading, or Writing sequence of courses when a "D" or an "F" has been earned, in which case the student must repeat the unsuccessful course.

Students disagreeing with their placement standing as indicated by the assessment test score for ESL, Reading, or Writing may challenge their placement status through the Credit-by-Examination process, taking a comprehensive test over the course that serves as the prerequisite. (See Credit-by-Exam in the IVC General Catalog.) Upon passing the comprehensive examination, the student will have earned credit for the course in question, thereby satisfying the prerequisite.

ESL 001 (5.0 UNITS)
GRAMMAR AND COMPOSITION FOR ESL 1
Term Hours: 90 Lec, 0 Lab
Letter Grade only
Recommended Companion Course: ESL 011.
ESL 001 is a grammar class in an English-only environment designed for the beginning or false beginning ESL student. The course will cover grammar and simple sentence writing. (Formerly ENGL 091) (Nontransferable, nondegree applicable)

ESL 002 (5.0 UNITS)
GRAMMAR AND COMPOSITION FOR ESL 2
Term Hours: 90 Lec, 0 Lab
Letter Grade only
Prerequisite: ESL 001 or ENGL 091 with a grade of "C" or higher or appropriate placement.
Recommended Companion Courses: ESL 012.
ESL 002 is a grammar class in an English-only environment designed for the low-intermediate ESL student. The course will cover grammar and simple sentence writing. (Formerly ENGL 092). (Nontransferable, nondegree applicable)

ESL 003 (5.0 UNITS)
GRAMMAR AND COMPOSITION FOR ESL 3
Term Hours: 90 Lec, 0 Lab
Letter Grade only
Prerequisite: ESL 002 or ENGL 092 with a grade of "C" or higher or appropriate placement.
Recommended Companion Courses: ESL 013.
ESL 003 is a grammar class in an English-only environment designed for the intermediate ESL student. The course will emphasize grammar, writing sentences, and short paragraphs. (Formerly ENGL 093) (Nontransferable, nondegree applicable)

ESL 004 (5.0 UNITS)
GRAMMAR AND COMPOSITION FOR ESL 4
Term Hours: 90 Lec, 0 Lab
Letter Grade only
Prerequisite: ESL 003 or ENGL 093 with a grade of "C" or higher or appropriate placement.
Recommended Companion Course: ESL 014.
ESL 004 is a grammar class in an English-only environment designed for the high-intermediate ESL student. The course will emphasize grammar, writing sentences, and paragraphs. (Formerly ENGL 094) (Nontransferable, nondegree applicable)

ESL 005 (5.0 UNITS)
GRAMMAR AND COMPOSITION FOR ESL 5
Term Hours: 90 Lec, 0 Lab
Letter Grade only
Prerequisite: ESL 004 or ENGL 094 with a grade of "C" or higher or appropriate placement.
Recommended Companion Course: ESL 015.
ESL 005 is a grammar class in an English-only environment designed for the advanced ESL student. The course will emphasize grammar and writing sentences and paragraphs in a variety of rhetorical modes. (Nontransferable, nondegree applicable)

ESL 010 (1.0 UNIT)
ESL LANGUAGE LABORATORY
Term Hours: 0 Lec, 36 Lab
Credit/No Credit only
ESL 010 is a self-paced three semester course which provides individualized, interactive conversational English practice with appropriate software programs in the language laboratory. Students practice listening comprehension, vocabulary, pronunciation, and sentence development through interactive activities appropriate to their proficiency level. This course is a recommended supplement for all levels of ESL. This course may be repeated a maximum of three times for a total of 3 units. (Formerly ENGL 050) (Nontransferable, nondegree applicable)

ESL 011 (5.0 UNITS)
SPEAKING AND LISTENING FOR ESL 1
Term Hours: 90 Lec, 0 Lab
Letter Grade only
Recommended Companion Courses: ESL 001, ESL 041, ESL 042, ESL 051, ESL 052.
ESL 011 is a grammar-based speaking class in an English-only Environment for the beginning or false-beginning ESL student. Listening comprehension and speaking skills will be developed through basic dialogues, modeled tasks, and communicative activities. (Nontransferable, nondegree applicable)

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.
Recommended Companion Courses: ESL 002, ESL 041, ESL 042, ESL 051, ESL 052.
ESL is a grammar based speaking class in an English-only Environment for the low intermediate ESL student. Students will further develop listening comprehension and will increase fluency, accuracy, and confidence in oral production. (Nontransferable, nondegree applicable)

ESL 013 (5.0 UNITS)
SPEAKING AND LISTENING FOR ESL 3
Term Hours: 90 Lec, 0 Lab
Letter Grade only
Prerequisites: ESL 012 or ENGL 063 with a grade of "C" or higher or appropriate placement.
Recommended Companion Courses: ESL 003, ESL 043, ESL 044, ESL 053, ESL 054, ESL 055.
ESL 013 is a grammar-based speaking class in an English-only Environment for the intermediate ESL student. Students will further develop listening comprehension and will increase fluency, accuracy, and confidence in oral production. (Nontransferable, nondegree applicable)

ESL 014 (5.0 UNITS)
SPEAKING AND LISTENING FOR ESL 4
Term Hours: 90 Lec, 0 Lab
Letter Grade only
Prerequisites: ESL 013 or ENGL 064 with a grade of "C" or higher or appropriate placement.
Recommended Companion Courses: ESL 004, ESL 043, ESL 044, ESL 045, ESL 053, ESL 054, ESL 055.
ESL 014 is a grammar-based speaking class in an English-only Environment for the high-intermediate ESL student. Students will further develop listening comprehension and will demonstrate greater fluency, accuracy, and confidence in oral production. (Nontransferable, nondegree applicable)

ESL 015 (5.0 UNITS)
SPEAKING AND LISTENING FOR ESL 5
Term Hours: 90 Lec, 0 Lab
Letter Grade only
Prerequisites: ESL 014 or ENGL 065 with a grade of "C" or higher or appropriate placement.
Recommended Companion Courses: ESL 004, ESL 044, ESL 045, ESL 053, ESL 054, ESL 055.
ESL 015 is a grammar-based speaking class in an English-only Environment for the advanced ESL student. Students will further develop listening comprehension and the ability to speak with grater fluency, accuracy, and confidence in oral production. (Nontransferable, nondegree applicable)

ESL 023 (3.5 UNITS)
ESL READING 1
Term Hours: 54 Lec, 18 Lab
Letter Grade only
Prerequisites: Appropriate placement.
This course is designed to assist intermediate level ESL students in developing reading skills and reading efficiency in English. Focus will be placed on understanding text structure and overall comprehension of a variety of texts. Further development of reading skills will also be emphasized. Participation in instructor assigned reading lab activities is a required part of the course. (Formerly ENGL 084) (Nontransferable, nondegree applicable)

ESL 024 (3.5 UNITS)
ESL Reading 2
Term Hours: 54 Lec, 18 Lab
Letter Grade only
Prerequisites: Appropriate placement recommendation or completion of ESL 023 or ENGL 084 with a grade of "C" or better.
This course is designed to assist high-intermediate ESL students in developing reading skills and reading efficiency in English. Focus will be placed on understanding text structure and overall comprehension of a variety of texts. Further development of reading skills will also be emphasized. Participation in instructor assigned reading lab activities in a required part of the course (Formerly ENGL 085) (Nontransferable, nondegree applicable)

ESL 025 (3.5 UNITS)
ESL READING 3
Term Hours: 54 Lec, 18 Lab
Letter Grade only
Prerequisites: ESL 024 or ENGL 085 with a grade of "C" or higher or appropriate placement.
This course is designed to assist advanced ESL students in further developing reading skills and reading efficiency in English. Focus will be placed understanding text understanding text structure and overall comprehension of a variety of texts. Further development of reading skills will also be emphasized. Participation in instructor reading lab activities is a required part of the course. (Nontransferable, nondegree applicable)

ESL 029 (1.0 UNIT)
NEWS AND CURRENT EVENTS FOR ESL
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Students will explore topics drawn from current news sources, such as magazines and newspapers. The course is designed to give intermediate to advanced ESL students, as well as students in developmental English courses, additional practice in applying reading and critical thinking skills through individual and group activities and discussion. (Nontransferable, nondegree applicable)

ESL 031 (1.0 UNIT)
VERB REVIEW 1
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Recommended Preparation: ESL 001.
This course is designed to review and reinforce proper use of the verbs "to be" and "to have", and the simple present and present progressive verb forms. It is a recommended supplement for students in Beginning and Low Intermediate ESL courses. (Nontransferable, nondegree applicable)

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. Is 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 ESL courses, as well as for students in developmental English courses. (Nontransferable, nondegree applicable)

ESL 038 (1.0 UNIT)
VERB REVIEW 8
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 ESL courses, as well as for students in developmental English courses. (Nontransferable, nondegree applicable)

ESL 041 (1.0 UNIT)
CONVERSATION 1
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Recommended Preparation: ESL 001 or ESL 002.
ESL 041 is a short-term intensive course designed for students to participate in a variety of authentic exchanges in academic and workplace environments. topics include opening, maintaining, and closing a conversation, describing things, places and people. (Nontransferable, nondegree applicable)

ESL 042 (1.0 UNIT)
CONVERSATION 2
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Recommended Preparation: ESL 001 or ESL 002.
ESL 042 is a short-term intensive course designed for students to participate in a variety of authentic exchanges in academic and workplace environments. Topics include asking for permission, help and advice, and opening/closing telephone conversations. (Nontransferable, nondegree applicable)

ESL 043 (1.0 UNIT)
CONVERSATION 3
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Recommended Preparation: ESL 003 or ESL 004.
ESL 043 is a short-term intensive course designed for students to participate in a variety of authentic exchanges in academic and workplace environments. Topics include offering and asking for directions, advice, help, and permission, and talking about past events. (Nontransferable, nondegree applicable)

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 rhythm of English. (Nontransferable, nondegree applicable)

ESL 055 (1.0 UNIT)
PRONUNCIATION 5
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Recommended Companion Courses: ESL 005, ESL 015.
ESL 055 is a short-term intensive pronunciation course designed for students whose main interest is to focus on improved clarity of speech, and on control of the stress, intonation, and rhythm of English. (Nontransferable, nondegree applicable)

ESL 060 (1.0 UNIT)
VOCABULARY 1
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Recommended Preparation: ESL 001.
ESL 060 provides students additional review, practice, and instruction in basic vocabulary. Topics to be covered include: personal information, family, everyday activities, numbers, time, money, the calendar, and the home. Focus will be on written and communicative activities designed to increase fluency for learners at the low beginning level of English. (Nontransferable, nondegree applicable)

ESL 061 (1.0 UNIT)
VOCABULARY 2
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Recommended Preparation: ESL 001
ESL 061 provides beginning level students additional review, practice, and instruction in basic vocabulary. Topics to be covered include: community life, home, describing people and places, food, colors and clothing. Focus will be on a written and communicative activities designed to increase fluency. (Nontransferable, nondegree applicable)

ESL 062 (1.0 UNIT)
VOCABULARY 3
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Recommended Preparation: ESL 002
ESL 062 provides students additional review, practice and instruction in basic vocabulary. Topics to be covered include: shopping, community services, health, and school. Focus will be on written and communicative activities designed to increase fluency for learners at the high beginning level of English. (Nontransferable, nondegree applicable)

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 that focuses on understanding and using vocabulary utilized in actions and processes in work, town, and national environments. Emphasis will be placed on development of dictionary skills and acquisition of vocabulary from the Academic Word List. (Nontransferable, nondegree applicable)

ESL 065 (1.0 UNIT)
VOCABULARY 6
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Recommended Preparation: ESL 003.
ESL 065 provides high-intermediate level students with additional review, practice, and instruction that focuses on understanding and use of vocabulary utilized in actions and processes in relation to personal life and experiences. Emphasis will be places on development of dictionary skills and acquisition of vocabulary from the Academic Word List. (Nontransferable, nondegree applicable)

ESL 066 (1.0 UNIT)
VOCABULARY 7
TERM HOURS: 18 LEC, 0 LAB
LETTER GRADE ONLY
Recommended Preparation: ESL 003.
ESL 066 provides high-intermediate students with additional review, practice, and instruction that focuses on understanding and the use of vocabulary utilized in actions and processes in relation to personal life and experiences. Emphasis will be placed on development of dictionary skills and acquisition of vocabulary from the Academic Word List. (Nontransferable, nondegree applicable)

ESL 067 (1.0 UNIT)
VOCABULARY 8
Term Hours: 18 Lec, 0 Lab
Letter Grade only
ESL 067 provides intermediate through advanced students with review, practice, and instruction that focuses on understanding the use of vocabulary as well as word building skills. Emphasis will be placed on development of dictionary skills and acquisition of vocabulary from the Academic Word List, specifically in the fields of Science and Technology. (Nontransferable, nondegree applicable)

ESL 068 (1.0 UNIT)
VOCABULARY 0
Term Hours: 18 Lec, 0 Lab
Letter Grade only
ESL 068 provides intermediate through advanced students with review, practice, and instruction that focuses on understanding and use of vocabulary as well as word building skills. Emphasis will be placed on development of dictionary skills and acquisition of vocabulary from the Academic Word List, specifically in the fields of Criminology and Information. (Nontransferable, nondegree applicable)

ESL 069 (1.0 UNIT)
VOCABULARY 10
Term Hours: 18 Lec, 0 Lab
Letter Grade only
ESL 069 provides intermediate through advanced students with review, practice, and instruction that focuses on understanding and use of vocabulary as well as word building skills. Emphasis will be placed on development of dictionary skills and acquisition of vocabulary from the Academic Word List, specifically dealing with time, movement, and other related topics. (Nontransferable, nondegree applicable)

ENVIRONMENTAL SCIENCE

ENVS 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 AG 110) (CSU, UC)

FIRE SCIENCE

FIRE 100 (3.0 UNITS)
FIRE PROTECTION ORGANIZATION
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course provides an introduction to fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection; fire loss analysis; organization and function of public and private fire protection services; fire department as a part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire systems; and an introduction to fire strategy and tactics. (CSU)

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 defibrillation 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 b 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
This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. (CSU)

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 space areas. (CSU)

FIRE 130 (5.5 UNITS)
BASIC FIRE ACADEMY I
Term Hours: 83 Lec, 47 Lab
Letter Grade only
Prerequisites: Successful completion of application process. Acceptance into program by Fire Technology Coordinator. Pass Basic Fire Academy Entrance Exam with a proficiency score of 70% or better.
Corequisites: Physical training is an important component of being a Firefighter. all candidates should be in good physical condition before entering into a career of being a firefighter.
Recommended preparation: ENGL 101.
Basic Fire Academy I is the first of two courses of the Fire Academy designed for the individual who desires a career as a professional fire fighter. This course includes instruction in basic firefighting skills, personnel rules and regulations in professional organizations, equipment operation and maintenance, elementary fire behavior, fireground safety and operations, self-contained breathing apparatus operation and maintenance, portable fire extinguisher operation and maintenance, firefighting tactics and strategies on the fireground. This course is intensive, requiring the students' total dedication for successful completion. (CSU)

FIRE 131 (6.0 UNITS)
BASIC FIRE ACADEMY II
Term Hours: 97 Lec, 27 Lab
Letter Grade only
Prerequisites: Successful completion of Basic Fire Academy I.
Corequisites: Physical training is an important component of being a fire fighter; all candidates should be in good physical condition before entering into a firefighting career.
Recommended Preparation: ENGL 101.
Basic Fire Academy II is the second of two courses of the Fire Academy designed for the individual who desires a career as a professional firefighter. This course includes instruction in the operation and maintenance of fire service ground ladders, forcible entry tactics and strategies, rescue safety and operations, fire control techniques, salvage and overhaul operations, principles of fire protection water systems, fire investigation, fire prevention, vehicle extrication, and wild land firefighting. This course is intensive, requiring the students' total dedication for successful completion. (CSU)

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 fire apparatus. Topics include basic inspections, documentation, maintenance, and troubleshooting fire apparatus, and techniques on driving and position fire 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 fire 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 keeping, team building, disciplinary functions, and dealing with change and stress. (CSU)

FIRE 225 (2.5 UNITS)
FIRE PREVENTION 1A
Term Hours: 45 Lec, 0 Lab
Letter Grade only
This course is the study of fire prevention. Course will include introduction to organization and function of fire prevention inspections, surveying and mapping procedures and recognition of fire and life hazards. Material presented will focus on code use, improvements, enforcement and fire cause, considerations of various flammable materials, properties of plastics, and portable and fixed fire protection equipment. Successful completion fulfills one of the fire prevention requirements for California State Officer Certification. (CSU)

FIRE 226 (2.5 UNITS)
FIRE PREVENTION 1B
Term Hours: 45 Lec, 0 Lab
Letter Grade only
Prerequisite: FIRE 225 with a grade of "C" or better.
This course is a continuation of the study of fire prevention. Topics include a continuation of fire and life hazards, enforcing the solution, and public relations as affected by fire prevention. Other focuses include building construction, flame spread classification, fire doors, exiting standards, calculations of occupant load, smoke proof enclosures, sprinkler system design, electrical hazards, fire alarm and detection systems and devices. Successful completion of this course and FT 204 A fulfills the fire prevention requirements for California State Officer Certification. (CSU)

FIRE 227 (2.5 UNITS)
FIRE INSTRUCTOR 1A
Term Hours: 45 Lec, 0 Lab
Letter Grade only
This course is designed to provide fire and other service personnel with the instructional terms and concepts associated with vocational education. It will provide a variety of methods and techniques for training their subordinates in accordance with the latest concepts in vocational education. Preparation techniques will be presented on how to select, develop, organize, and utilize instructional materials appropriate for teaching manipulative lessons. An opportunity to apply major principles of learning through teaching demonstrations will be provided. Successful completion of this course will satisfy one of the requirements to become a State Fire Training Registered Fire Instructor. (CSU)

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 education. Opportunities to apply major principles of learning through practice teaching demonstrations will be given. Material and information will be given to assist the participant to prepare for Fire Officer Certification and Fire Instructor I requirements within the State of California. Successful completion of this course will satisfy one of the requirements to become a State Fire Training Registered Fire Instructor. (CSU)

FIRE 229 (2.5 UNITS)
FIRE COMMAND 1A
Term Hours: 45 Lec, 0 Lab
Letter Grade only
Prerequisite: FIRE 121 with a grade of 'C' or better.
Recommended Preparation: Completion of Core Fire Technology courses.
A course designed for the initial response, "first in" officer at emergency scenes. This officer may be a company officer, senior engineer, captain, lieutenant, or acting officer. This course provides the Fire Company Officer with information and experience in comannd and control techniques at the scene of an emergency. The topics emphasize managerial and decision making skills required for command. The managerial concepts of this course are applicable to all types and sizes of incidents. The course emphasis is centered on structual fire fighting. This course will satisfy one of the prerequisites for Fire Command 2B presented through the State Fire Academy. (CSU)

FIRE 230 (2.5 UNITS)
FIRE COMMAND 1B
Term Hours: 45 Lec, 0 Lab
Letter Grade only
Prerequisites: FIRE 121 and FIRE 229 with a grade of "C" or better and experience as mandated by State Fire Training Course Information & Required Materials Manual, California Department of Forestry & Fire Protection, May 2008.
This course provides the student with information on tactics, strategies, and scene management for multi-casualty incidents, hazardous materials incidents, and wildland fires. Each student also has the opportunity to increase his or her knowledge and skills by handling initial operations at these types of incidents through simulation and class activities. (CSU)

FIRE 231 (1.5 UNITS)
INCIDENT COMMAND SYSTEM (ICS) 300
Term Hours: 27 Lec, 0 Lab
Letter Grade only
Prerequisite: FIRE 121 with a grade of "C" or better.
This course is designed to enable personnel to operate efficiently using ICS in supervisory roles on expanding for Type 3 incidents. (CSU)

FIRE 232 (2.5 UNITS)
PUBLIC EDUCATION 1
Term Hours: 45 Lec, 0 Lab
Letter Grade only
Key topics include systematic planning process for public education, use of CFIRS to analyze local fire problems, communication skills, program evaluation, working with the media, integrating programs into schools, gaining community support, fire safety for children, interviewing and counseling juvenile fire settings, creating and using audio/visual resources, and idea and resource sharing. (CSU)

FIRE 233 (2.5 UNITS)
FIRE COMMAND 1C
Term Hours: 45 Lec, 0 Lab
Letter Grade only
Prerequisites: FIRE 121 and FIRE 229 with a grade of "C" or better, and experience as mandated by State Fire Training Course Information Materials Manual, California Department of Forestry & Fire Protection, May 2008.
Recommended Preparation: FIRE 230.
This course is designed around the responsibilities of the Company Officer at a wild land/urban interface incident. It will bring the structural Company Officer out of the city and into the urban/interface; in other words, from his or her comfort zone into an area that would very well be quite unfamiliar. (CSU)

FIRE 234 (2.5 UNITS)
FIRE PREVENTION 1C
Term Hours: 45 Lec, 0 Lab
Letter Grade only
Prerequisites: FIRE 225 and FIRE 226 with a grade of "C" or better.
This course focuses the participants on the special hazards associated with flammable and combustible liquids and gases. Some topics of discussion include bulk storage and handling transportation of flammable gases and liquids, and more. (CSU)

FIRE 235 (2.5 UNITS)
FIRE INSTRUCTOR 2A
Term Hours: 45 Lec, 0 Lab
Letter Grade only
Prerequisites: FIRE 227 and FIRE 228 with a grade of "C" or better.
This course provides the instructor and/or supervisor with the techniques of evaluation. It includes: Construction of written (technical knowledge) and performance (manipulative skills) tests, as well as test planning, test analysis, test security, and evaluation of test results to determine instructor and student effectiveness. Essential course for writing valid objective tests. (CSU)

FRENCH

FREN 100 (5.0 UNITS)
ELEMENTARY FRENCH I
Term Hours: 90 Lec, 0 Lab
Letter Grade only
A beginning course stressing the basic skills of listening comprehension, speaking, reading and writing to develop control of the sounds and the basic forms and structure of French. Introduction to aspects of French culture and civilization. Students must plan for an hour of individual language laboratory by arrangement. Not open to students who have completed three years of high school French. (CSU, UC)

FREN 110 (5.0 UNITS)
ELEMENTARY FRENCH II
Term Hours: 90 Lec, 0 Lab
Letter Grade only
Recommended Preparation: FREN 100.
Continues the development of all four language skills, emphasizing vocabulary building, increasing fluency and control of correct pronunciation, basic forms and structure. Students must plan for an hour of individual language laboratory by arrangement. (CSU,UC)

FREN 200 (4.0 UNITS)
INTERMEDIATE FRENCH I
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Recommended Preparation: FREN 100 and FREN 110.
An intermediate course offering review and expansion of grammar and vocabulary learned in FREN 100 and FREN 110. Emphasis on communication and application of knowledge in highly functional life situations. Students must plan for one hour per week of required language laboratory practice by individual study arrangement. (CSU, UC)

FREN 210 (4.0 UNITS)
INTERMEDIATE FRENCH II
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Continuation of FREN 200. An intermediate course emphasizing communication and application of knowledge in highly functional life situations. Students must plan for one hour per week of required language laboratory practice by individual study arrangement. (CSU, UC)

FREN 220 (3.0 UNITS)
INTERMEDIATE FRENCH READING AND WRITING
TERM HOURS: 54 LEC, 0 LAB
Letter Grade only
Intensive reading and vocabulary development based on cultural and literary materials, including critical analysis and summaries. (CSU, UC)

FREN 230 (3.0 UNITS)
INTERMEDIATE CONVERSATIONAL FRENCH I
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Concurrent enrollment in FREN 200.
Practical conversational skills are developed through listening exercises, directed conversations on assigned readings from newspaper and magazine articles, current topics, simple dialogues and plays. Emphasis on contemporary life in countries where French is spoken. Student must plan for an additional hour of individual language laboratory by arrangement. (CSU)

FREN 232 (3.0 UNITS)
INTERMEDIATE CONVERSATIONAL FRENCH II
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: Concurrent enrollment in FREN 210.
Continuation of FREN 230. Practical conversational skills are developed through listening exercises, directed conversations on assigned readings from newspaper and magazine articles, current topics, simple dialogues and plays. Emphasis on contemporary life in countries where French is spoken. Student must plan for an additional hour of individual language laboratory by arrangement. (CSU)

FREN 297 (1.0 UNIT)
French - Honors
Term Hours: 18 Lec, 0 Lab
Letter Grade or Credit/No Credit
Corequisite: Current enrollment in FREN 110.
This course will give the student the opportunity to apply and expand his or her French language skills through the reading, analysis, and subsequent discussion of French films and literary texts. Students will learn to state opinions and offer supporting arguments in written forms as well as in roundtable discussions. (CSU, UC)

GEOGRAPHY

GEOG 100 (3.0 UNITS)
PHYSICAL GEOGRAPHY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introduction to the physical characteristics of the earth. Topics include: climate, landforms, natural vegetation, and the water and mineral resources of the earth. (CSU, UC)

GEOG 102 (3.0 UNITS)
CULTURAL GEOGRAPHY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introduction to the regions and cultures of the world. Emphasis on the contemporary demographic, linguistic, religious, and economic characteristics of major regions in the world. May be taken before GEOG 100. (CSU, UC)

GEOG 104 (3.0 UNITS)
ECONOMIC GEOGRAPHY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
The geography of commercial products. Distribution of production as related to climate, surface features, soils, labor supply and market areas, and the routes along which products move to consuming areas. (CSU, UC)

GEOG 108 (3.0 UNITS)
WORLD REGIONAL GEOGRAPHY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
World Regional Geography is a survey course which introduces students to the physical and cultural geographic aspects of the world's realms. Geography's interdisciplinary approach is used to analyze regions and illustrate their interdependence. (CSU, UC)

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, galaxies, water movements, ocean floor, weather and climate, along with other related topics, will be studied. (CSU) (UC credit limited. See a Counselor.)

GEOL 120 (3.0 UNITS)
GEOLOGY FIELD STUDIES
Term Hours: 18 Lec, 108 Lab
Letter Grade only
Recommended Preparation: GEOL 100 or GEOL 110.
Introductory course to geology field techniques. Basic field techniques in geologic mapping, field observations and specimen collection will be introduced and practiced in the classroom and at several locations in Imperial Valley during the first week. The second week will be a field trip to a National or State Park to observe and interpret geologic processes and features of the area. During the third week a field report will be submitted on the geology of the location. Open to all students. Maximum credit six units. (CSU)

HEALTH EDUCATION

HE 100 (2.0 UNITS)
HEALTH EDUCATION - MILITARY SERVICE
Term Hours: 0 Lec, 0 Lab
Credit/No Credit only
Prerequisite: The satisfactory completion of basic or recruit training and 180 days or more active service in the military of the United States of America.
The student wishing credit for military service must present his/her DD214 or equivalent supporting document to the Veterans Assistant and register for the credit. If the student registers for military credit and does not submit verification of service, he/she will be dropped as a No-Show and will not receive credit. HE 100 does not count for units toward VA, Financial Aid, or full-time student status. These are not contact hours. May receive credit only once. (CSU)

HE 102 (3.0 UNITS)
HEALTH EDUCATION
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Fundamentals of healthful living designed to provide scientific health information, and promote desirable attitudes and practices, to include the relationship of alcohol, narcotics, and smoking to health, and the factors involved in family and community health and safety. (CSU, UC)

HE 104 (3.0 UNITS)
FIRST AID
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This class is designed to prepare students to take the American Red Cross First Responder certification test. Giving the students the confidence to respond to emergencies with the knowledge and the skills necessary in an emergency to help sustain life, reduce pain, and minimize the consequences of injury or sudden illness until professional medical help arrives. (CSU, UC)

HISTORY

HIST 100 (3.0 UNITS)
EARLY WORLD HISTORY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Early World History is a broad survey of the diverse societies of Africa, Asia, Europe, the Americas, and Oceania from prehistory through the 1400s. This course seeks to describe the emergence and development of civilizations, societies, trade, religions and cultures, and to recognize the interconnections between different peoples and across time. (CSU, UC)

HIST 101 (3.0 UNITS)
MODERN WORLD HISTORY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Modern World History is a broad survey of the diverse societies of Africa, Asia, Europe, the Americas, and Oceania from the 1400s to the present. This course emphasizes the political, cultural, social, imperial, and trade connections between western and non-western societies of the modern era. (CSU, UC)

HIST 110 (3.0 UNITS)
EARLY WESTERN CIVILIZATION
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course is a survey of the major developments in the Western heritage from the world of the ancient Greeks to 16th century Europe. Emphasis will be placed on the foundations of Western culture, religion, politics, economics, and society. (CSU, UC)

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 the political, economic, cultural, social and intellectual changes and developments in Western society which have led to our modern global society. May be taken before HIST 110. (CSU, UC)

HIST 120 (3.0 UNITS)
UNITED STATES TO 1877
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course is a survey of American history from the pre-Columbian era to the end of Reconstruction. This course will cover the major political, economic, social, gender, racial, cultural and intellectual transformations of the colonial and early American eras. At the completion of this course students will have a broad understanding of the most important ideas, personalities, movements, and events in the colonial and early American periods. (CSU, UC)

HIST 121 (3.0 UNITS)
UNITED STATES FROM 1877
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course is a survey of American history from the end of Reconstruction to the present. This course will cover the major political, economic, social, gender, racial, cultural and intellectual transformations of the modern American eras. Of special note will be an examination of America's rise to global power. At the completion of this course students will have a broad understanding of the most important ideas, personalities, movements, and events in the modern period. (CSU, UC)

HIST 130 (3.0 UNITS)
EARLY LATIN AMERICA
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course compares the different regions of Latin America from prehistory through the Early National Period, including Mexico, Central America, South America and the Caribbean. The course explores pre-Columbian American civilizations, European exploration and conquest, the colonial era, the independence movements, and the creation of nations. Emphasis is given to the economic and social changes, the political and legal struggles, and the cultural and intellectual evolution generated by the encounter of two cultures and the creation of a third distinctive culture. (Same as LAS 130) (CSU, UC)

HIST 131 (3.0 UNITS)
MODERN LATIN AMERICA
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course compares the nations and cultures of Latin America from the Early National Period to the present by studying the economic, social, political, and cultural evolution of the different regions, including Mexico, Central America, South America and the Caribbean. The region's changing interactions with and place in the international community and various other world factors are also explored. Emphasis is placed on the influence of various ethnic groups in the development of the different cultures of the region. (Same as LAS 131) (CSU, UC)

HIST 132 (3.0 UNITS)
HISTORY OF MEXICO
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course is a one semester survey of Mexican history from prehistory to the present. The course will explore the Native American cultures of Mesoamerica, the period of colonization, the struggle for independence and nationhood in the 19th century, the Mexican Revolution, the era of population, and political and economic crisis during the 20th century, and national rebirth in the 21st century. (Same as LAS 132) (CSU, UC)

HIST 140 (3.0 UNITS)
EAST ASIAN HISTORY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course is an introductory survey of the major cultures of East Asia, including the political, social and economic developments of China, Korea, and Japan from the ancient period to the present. This course will illustrate not only the regional differences of East Asia, but also the commonalities that are shared, especially with regard to the major Asian philosophies and religions. The course will also look at the impact of Western culture on Asia and problems of political and economic modernization. (CSU) (UC)

HIST 150 (3.0 UNITS)
SURVEY OF AFRICAN HISTORY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introductory survey of African history from prehistory to the present. Emphasis will be on Africa's place in world history since 1500, with special attention paid to the legacy of colonialism, the interaction of Africans and the outside world, and the challenges faced by Africans since independence. (CSU) (UC)

HIST 160 (3.0 UNITS)
MIDDLE EAST FROM 600
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course examines the history of the Middle East from the rise of Islam in the 600's through the present. It discusses the interplay of various peoples and cultures, and the powerful Islamic empires of the Caliphs, Seljuks, and Ottomans. Special emphasis is given to the impact of European and American political and economic imperialism, the spread of Arab nationalism and Islamic fundamentalism, and the region's current strategic position in global affairs. (CSU) (UC)

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 English (ENGL 101). Any college level course in American History or Political Science.
A general survey of women's changing roles, status and contributions in American history from colonial times to the present. This course will analyze the social, political and economic aspects of women's lives and explore the ways in which race, ethnicity, and class influenced the American female experience. (CSU, UC)

HIST 222 (3.0 UNITS)
HISTORY OF CALIFORNIA
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Eligible for placement in college English (ENGL 101); any college level course in American History or Political Science.
A survey of the historical development of California from its earliest times to the present. The course provides an overview of both the physical characteristics and the diverse peoples of California and how they interacted and influenced the history of this state and its economic, social, cultural, and political institutions. This course may be of special interest to students planning a career in education. (CSU, UC)

HIST 223 (3.0 UNITS)
HISTORY OF THE AMERICAN WEST
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Completion of ENGL 099 (formerly ENGL 100) or equivalent; any college level course in American History or Political Science.
A historical survey of the trans-Mississippi American West with an emphasis on expansionism; race and ethnic relations; economic development; political and legal trends; the shift from rural to urban settlement; social and cultural patterns; labor and economic issues; gender roles; immigration; and significant environmental changes. (CSU, UC)

HIST 225 (3.0 UNITS)
MEXICAN AMERICAN HISTORY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
(Recommended Preparation: Eligible for enrollment in ENGL 101.
Survey of Mexican American history from colonization to the present. Examines the Spanish and native Mexican roots of people in the American Southwest, the Mexican War of 1846-48 and its aftermath, the interrelationship of Mexico and United States histories between 1860 and 1910, the effects of the Mexican revolution (1910) on Mexican Americans in the United States, and the Chicano experience of the 20th century. (Same as LAS 225) (CSU)

HIST 280 (3.0 UNITS)
RESEARCH TOPICS IN HISTORY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Eligible for placement in college English (ENGL 101). Any college level course in American or World History.
An indepth study of selected topics in history. These topics may be in the realm of cultural, economic, intellectual, political, or social history. Topic, time period, and region to be determined by the instructor. This course includes introductory historiography and historical methods and a significant research component. This course is designed to be taken by students in their last semester in the history major program. (CSU)

HUMANITIES

HUM 100 (3.0 UNITS)
INTRODUCTION TO THE HUMANITIES
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An exploratory course designed to introduce students to the major disciplines in the Humanities: art, architecture, literature, music, and dance. Examination of humanistic values and how they are reflected in the arts of world cultures. (CSU, UC)

HUM 212 (3.0 UNITS)
THE HISTORY AND APPRECIATION OF DANCE
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Foundations of dance in western civilization. Dance as art, therapy, ritual and social discourse. Analysis of dance in film, video, and live performance. Appreciation for artistic intent, technique and style. (Same as PE 212) (CSU, UC)

HUM 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 ENGL 226) (CSU, UC)

HUM 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 ENGL 230) (CSU, UC)

HUM 262 (3.0 UNITS)
INTRODUCTION TO CHICANO/A STUDIES
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
This course offers an introduction to Chicano/a studies as an academic discipline, with a focus on the cultural values, social organization, urbanization patterns of the Chicano/a in the U.S., as well as their struggles in education, politics and legislation. Due to the nature of the subject, students will be exposed to some Spanish phrases, words, and expressions. (Same as SPAN 262) (CSU, UC)

JOURNALISM

JRN 100 (3.0 UNITS)
INTRODUCTION TO JOURNALISM
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: ENGL 101.
The course focuses on the newspaper as a vehicle for communication within a community. Students study basic components of journalism, including types of articles, writing style, interview techniques, and ethics. (CSU)

JRN 101 (3.0 UNITS)
MULTIMEDIA NEWS WRITING AND REPORTING
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: JRN 100, ART 146, ART 160.
This course will provide students with in-depth instruction in interactive journalism. It builds on the skills of researching, interviewing, and reporting as they apply to multimedia storytelling via the internet and other electronic media. (CSU)

JRN 102 (3.0 UNITS)
NEWSPAPER PRODUCTION
Term Hours: 0 Lec, 108 Lab
Letter Grade only
Recommended Preparation: JRN 100.
Course provides a concrete introduction to principles and techniques of newspaper production through work on the student newspaper. Students assume specific staff positions with corresponding responsibilities for the paper's production. Lab work includes editing of stories, planning pages, headline writing, proofreading, and paste-up. Maximum credit nine units. (CSU)

JRN 104 (3.0 UNITS)
CAREER JOURNALISM
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: JRN 100, JRN 101, CIS 137, CIS 149.
The course explores the four communications media: video, audio, online and print. Students study the different types of news production as they relate to journalistic ethics and principles. Professional best practices will be employed to teach students how to gather, produce and report the news on each platform. Students will prepare news reports for print, television broadcast, radio broadcast and online. (CSU)

JRN 106 (3.0 UNITS)
PHOTOJOURNALISM
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: ART 110 and ART 170.
Photography applied to news media, public relations, and business. Instruction in basic and intermediate photojournalism style and technique using 35mm and digital cameras. Emphasis on communication of ideas by utilizing the various elements of the visual language. Maximum credit six units. (CSU)

JRN 108 (3.0 UNITS)
CRITICAL REASONING AND WRITING
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: ENGL 101.
This course focuses on critical thinking, close textual analysis, and composition in the area of journalism. It is recommended for college transfer students who wish to develop the critical reading and writing skills necessary to succeed in college-level courses. (CSU)

LATIN AMERICAN STUDIES

LAS 130 (3.0 UNITS)
EARLY LATIN AMERICA
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course compares the different regions of Latin America from prehistory through the Early National Period, including Mexico, Central America, South America and the Caribbean. The course explores pre-Columbian American civilizations, European exploration and conquest, the colonial era, the independence movements, and the creation of nations. Emphasis is given to the economic and social changes, the political and legal struggles, and the cultural and intellectual evolution generated by the encounter of two cultures and the creation of a third distinctive culture. (Same as HIST 130) (CSU, UC)

LAS 131 (3.0 UNITS)
MODERN LATIN AMERICA
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course compares the nations and cultures of Latin America from the Early National Period to the present by studying the economic, social, political, and cultural evolution of the different regions, including Mexico, Central America, South America and the Caribbean. The region's changing interactions with and place in the international community and various other world factors are also explored. Emphasis is placed on the influence of various ethnic groups in the development of the different cultures of the region. (Same as HIST 131) (CSU, UC)

LAS 132 (3.0 UNITS)
HISTORY OF MEXICO
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course is a one semester survey of Mexican history from prehistory to the present. The course will explore the Native American cultures of Mesoamerica, the period of colonization, the struggle for independence and nationhood in the 19th century, the Mexican Revolution, the era of population, and political and economic crisis during the 20th century, and national rebirth in the 21st century. (Same as HIST 132) (CSU, UC)

LAS 225 (3.0 UNITS)
MEXICAN AMERICAN HISTORY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Eligible for enrollment in ENGL 101.
Survey of Mexican American history from colonization to the present. Examines the Spanish and native Mexican roots of people in the American Southwest, the Mexican War of 1846-48 and its aftermath, the interrelationship of Mexico and United States histories between 1860 and 1910, the effects of the Mexican revolution (1910) on Mexican Americans in the United States, and the Chicano experience of the 20th century. (Same as HIST 225) (CSU)

LEGAL ASSISTANT

LEGL 115 (3.0 UNITS)
LEGAL PROCEDURES
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 an overview of various legal specialties offered under the legal assistant program and the job functions performed in them. Topics include an introduction to the litigation process, bankruptcy, family law, contract law, corporate law, estates, trusts and wills, federal court practices and procedures, legal communications, and legal research. Students also learn specialized legal terminology. (CSU)

LEGL 116 (3.0 UNITS)
LAW OFFICE MANAGEMENT
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 introduces systems and procedures for administration and management of a law office. Course emphasizes file management, personnel issues, law library maintenance, computer systems, ordering supplies, financial analysis and billing, risk management, and legal ethics. (CSU)

LEGL 117 (3.0 UNITS)
CRIMINAL LITIGATION AND PROCEDURES
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 will provide students with an understanding of criminal litigation practice and procedure, including the criminal court system, criminal investigation and prosecution, discovery and investigation, pretrial motions, trial preparation and procedures, and post-trial motions and relief. (CSU)

LEGL 119 (3.0 UNITS)
CIVIL PROCEDURES AND DISCOVERY
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 covers theory, concept, and rules of civil procedures. It includes types of evidence, prima facie cases, rules governing witness testimony, federal and state court systems, procedures for the removal of state court actions for transfer to the federal court system, initiation of federal and state court actions, remedies available under law and equity, alternative dispute resolution methods, drafting and filing complaints, answers, counterclaims, pre-trial motions, and in-court trial procedures. It also provides an examination of the rules of civil evidence and the admissibility of evidence, depositions, interrogations, admissions, notices to produce, and related rules of discovery and evidence. (CSU)

LEGL 120 (3.0 UNITS)
CORPORATIONS
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 reviews the types of business formation and law office procedures for selecting and setting up the correct type of business, including sole proprietorship, partnership, LLC, and corporations. (CSU)

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 conservator ships, 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, antenuptiual 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.
This course examines the types of bankruptcies including bankruptcy laws and procedures with topics on creditor's rights, debtors exemptions, and secured transactions. (CSU)

LEGL 129 (3.0 UNITS)
TORTS
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.
A study of the fundamental principles of the law of torts, and examination of the techniques of investigation involved in the lawyers handling of tort claims, including the various forms of pleading. (CSU)

LIBRARY TECHNICIAN

LBRY 151 (3.0 UNITS)
INTRODUCTION TO LIBRARY SERVICES
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Eligibility for ENGL 098 and ENGL 088 and CIS 100 or familiarity with the use of a personal computer.
An introduction to all types of libraries and their organization. This course is designed for students interested in employment as library technicians. Basic philosophy, policies, terminology, procedures, tools, techniques, services and current trends in today's library will be covered. (CSU)

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)

MATHEMATICS

Prerequisites for Mathematics Classes

The student may meet the prerequisite requirement for Mathematics classes in the following manner, with the following conditions:

1. *Earn the appropriate score for the course on the assessment test for that area; OR*
2. *Earn a grade of "C" or higher for the previous course, at Imperial Valley College or a comparable course at another college, in the sequence of courses for that area, i.e., Calculus I, Calculus II, Calculus III, etc.*

Students disagreeing with their placement standing as indicated by the assessment test score for mathematics may challenge their placement status through the Credit-by-Examination process, taking a comprehensive test over the course that serves as the prerequisite. (See Credit-by-Exam in the IVC General Catalog.) Upon passing the comprehensive examination, the student will have earned credit for the course in question, thereby satisfying the prerequisite.

Please see appendix page 150 for a complete mathematics prerequisite chart

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, nondegree 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 and radical expressions. (Nontransferable, nondegree applicable)

MATH 090 (4.0 UNITS)
INTERMEDIATE ALGEBRA
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite: MATH 080 with a grade of "C" or higher or appropriate placement.
Topics covered include the real number system, polynomials, rational expressions, exponential and radical forms, linear and quadratic equations, relations, functions and graphs, systems of equations and logarithmic and exponential functions. (Nontransferable, AA/AS degree only)

MATH 092 (1.0 UNIT)
GRAPHING CALCULATORS
Term Hours: 18 Lec, 0 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: MATH 080 with a grade of "C" or better.
This course is designed to teach students how to use their graphing calculators. No particular mathematics prerequisites are needed for the examples employed. The focus is on the use of the calculator itself. The course takes the student through the basic steps needed to do arithmetic and function evaluation and to enter, graph, and tabulate functions. It will also teach the students to use higher-level applications. The topics to be covered are: graphing, lists, statistics, tables, functions, draw, programming, regression equations, and linking. (Nontransferable, nondegree applicable)

MATH 110 (3.0 UNITS)
NUMBER SYSTEMS IN ELEMENTARY MATHEMATICS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: MATH 090 with a grade of "C" or better.
Recommended for students who are working towards a teaching credential in elementary education. Topics discussed are sets and relations, development of the number system from the natural numbers including whole, rational and real numbers, decimals and percents, number theory, ratio and proportion. (CSU) (UC credit limited. See a counselor)

MATH 112 (3.0 UNITS)
GEOMETRY IN ELEMENTARY MATHEMATICS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: MATH 090 with a grade of "C" or better.
Recommended for students who are working towards a teaching credential in elementary education. Topics discussed are probability and statistics, geometry, geometric constructions, rotations, translations, measurements and problem solving. (CSU) (UC credit limited. See a counselor)

MATH 113 (1.0 UNIT)
MATHEMATICS SOFTWARE - GEOMETER'S SKETCHPAD
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Prerequisite: Completion of MATH 090 with a grade of "C" or better.
An introduction to Geometer's Sketchpad. Geometer's Sketchpad will be used to perform geometrical tasks, develop geometrical theory, and to create presentations and lessons in geometry. (CSU)

MATH 114 (1.0 UNIT)
CHILDREN'S MATHEMATICAL THINKING
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Concurrent enrollment or completion of MATH 110 with a grade of "C" or better.
Explore children's mathematical thinking with in-depth analysis of their understanding of operations, place value, algorithms, and multiple representations of problems. Examine interviews of children to assess understanding of mathematics topics, then plan tutoring sessions on basis of interviews. (CSU)

MATH 119 (4.0 UNITS)
ELEMENTARY STATISTICS
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisites: MATH 090 with a grade of "C" or better, or appropriate placement.
Recommended Preparation: ENGL 101 or ENGL 111.
Graphical representation of statistical data, calculations, and uses of various averages, measures of variability, introduction to probability, probability distributions, confidence intervals, sample size determination and hypothesis testing, ANOVA, linear regression and Chi-square analysis. Students will learn to use technology to find confidence intervals, test statistics, regression lines, and to produce graphics. This course also provides supervised practice in the appropriate use of technology designed to assist students in calculations required in beginning statistics. (CSU, UC)

MATH 121 (1.0 UNIT)
MATHEMATICS SOFTWARE - FATHOM
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Prerequisite: Concurrent enrollment in or completion of MATH 119 or MATH 120 with a grade of "C" or better.
An introduction to Fathom, a statistical package designed for educational purposes. Fathom will be used to develop and enhance the central concepts of elementary statistics, including but not limited to: Central Tendency, Beginning Probability, Confidence, Intervals, Linear Regression, and Data Representation. (CSU)

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 Matrix Algebra. Additional topics include systems of equations, Linear Programming, and Analytic geometry. (CSU) (UC credit limited. See a counselor)

MATH 170 (4.0 UNITS)
INTRODUCTORY CALCULUS WITH APPLICATIONS
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite: MATH 150 with a grade of "C" or better.
To prepare for courses for which calculus is recommended and/or required. To study the ideas and concepts of advanced mathematics as applied to a modern computerized society. Topics covered include pre-calculus concepts, functions, differentiation, integration, differential equations, and functions of several variables. (CSU) (UC credit limited. See a Counselor.) (Formerly MATH 124)

MATH 190 (5.0 UNITS)
PRE-CALCULUS
Term Hours: 90 Lec, 0 Lab
Letter Grade only
Prerequisite: MATH 140 or equivalent with a grade of "C" or higher or appropriate placement.
This is a course intended for students who need a thorough foundation before attempting calculus. Included will be the study of the real number system, exponential, logarithmic, and trigonometric functions, the complex numbers, theory of equations, and systems of equations. (CSU) (UC credit limited. See a counselor.)

MATH 192 (5.0 UNITS)
CALCULUS I
Term Hours: 90 Lec, 0 Lab
Letter Grade only
Prerequisite: MATH 190 or equivalent with a grade of "C" or higher or appropriate placement.
Concepts dealing with limits, continuity, differentiation and applications, integration and applications, exponential and logarithmic functions, and other transcendental functions. (CSU) (UC credit limited. See a counselor.)

MATH 194 (5.0 UNITS)
CALCULUS II
Term Hours: 90 Lec, 0 Lab
Letter Grade only
Prerequisite: MATH 192 with a grade of "C" or better.
Concepts dealing with integration applications, methods of integration, infinite series, plane analytic geometry, parametric equations and polar coordinates. (CSU, UC)

MATH 210 (5.0 UNITS)
CALCULUS III
Term Hours: 90 Lec, 0 Lab
Letter Grade only
Prerequisite: MATH 194 with a grade of "C" or better.
Concepts dealing with partial differentiation, multiple integration, vectors and vector analysis. (CSU, UC)

MATH 220 (3.0 UNITS)
ELEMENTARY DIFFERENTIAL EQUATIONS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: MATH 194 with a grade of "C" or better.
First order differential equations with applications. Linear differential equations of higher order. Applications of second order differential equations, differential equations with variable coefficients. Laplace transforms. (CSU, UC)

MATH 230 (3.0 UNITS)
INTRODUCTION TO LINEAR ALGEBRA WITH APPLICATIONS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: MATH 194 with a grade of "C" or better.
A first course in linear algebra intended for students majoring in mathematics, the physical sciences, engineering or business. Topics included are: systems of linear equations, matrices and determinants, vector spaces, linear transformations, eigenvalues and eigenvectors, and selected applications. (CSU, UC)

MATH 240 (3.0 UNITS)
DISCRETE MATHEMATICS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: MATH 192 with a grade of "C" or better.
This course is an introduction to the theory of discrete mathematics and introduces elementary concepts in logic, set theory, graph theory, number theory and combinatorics. This forms a basis for upper division courses in mathematics and computer science, and is intended for the transfer student planning to major in these disciplines. The topics covered in this course include methods of proof, sets permutations, combinations, and graph theory. (CSU, UC)

MATH 241 (1.0 UNIT)
MATHEMATICS SOFTWARE - MATLAB
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Prerequisite: Completion of MATH 192 with a grade of "C" or better.
Recommended preparation: Any one of the following: CIS 12, CIS 13, CIS 15, OR CIS 16.
An introduction to MATLAB. MATLAB will be used to perform tasks in Algebra, Calculus, and Linear Algebra. There will be an emphasis on writing programs using MATLAB to perform these tasks. (CSU)

MUSIC

MUS 100 (3.0 UNITS)
INTRODUCTION TO MUSIC FOUNDATIONS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introduction to basic concepts of music. The development of the skills and knowledge needed to read music, to hear music, and to use some instrument (including the voice) with skill. (CSU) (UC credit limited. See a counselor.)

MUS 102 (3.0 UNITS)
INTRODUCTION TO MUSIC LITERATURE AND LISTENING
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introduction to music literature with emphasis on the listening experience. Students study the expressive materials of music and the major forms of music literature. Emphasis placed on the skills and understanding necessary for lifelong music listening experiences. (CSU, UC)

MUS 104 (3.0 UNITS)
INTRODUCTION TO TWENTIETH-CENTURY MUSIC
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introduction to contemporary music. Study includes twentieth-century art music, country western, and popular music with emphasis on the social and artistic factors that influence the development of each. (CSU, UC)

MUS 110 (2.0 UNITS)
BEGINNING MUSICIANSHIP I
Term Hours: 36 Lec, 0 Lab
Letter Grade only
Required of all music majors. A course designed to present basic skills and theory of music for persons interested in a background for appreciation of or further studies in music. Skills to be studied and developed are sight-singing, ear-training, keyboard harmony, and basic piano skills. (CSU, UC)

MUS 112 (2.0 UNITS)
BEGINNING MUSICIANSHIP II
Term Hours: 36 Lec, 0 Lab
Letter Grade only
Continuation of MUS 110. (CSU, UC)

MUS 120 (3.0 UNITS)
BEGINNING HARMONY I
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
Sight-singing, dictation and keyboard harmony. Traditional diatonic harmony, four-voice writing, analysis. (CSU, UC)

MUS 122 (3.0 UNITS)
BEGINNING HARMONY II
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A continuation of MUS 120. (CSU, UC)

MUS 140 (1.0 UNIT)
BEGINNING GROUP PIANO I
Term Hours: 18 Lec, 36 Lab
Letter Grade only
A course structured to correlate those musical skills, techniques and understanding which are basic to comprehensive keyboard musicianship at the early level of study. (CSU, UC)

MUS 142 (1.0 UNIT)
BEGINNING GROUP PIANO II
Term Hours: 18 Lec, 36 Lab
Letter Grade only
A continuation of MUS 140. (CSU, UC)

MUS 150 (1.0 UNIT)
BEGINNING VOICE I
Term Hours: 18 Lec, 36 Lab
Letter Grade only
The student receives guidance in the performance and appreciation of the various types of solo songs while acquiring the facilities for good vocal technique. Principles are applied through group and individual singing. (CSU, UC)

MUS 152 (1.0 UNIT)
BEGINNING VOICE II
Term Hours: 18 Lec, 36 Lab
Letter Grade only
A continuation of MUS 150. (CSU, UC)

MUS 154 (1.0 UNIT)
CHAMBER SINGERS
Term Hours: 36 Lec, 18 Lab
Letter Grade only
A study and performance representative of music of all styles, sacred and secular, a cappella, and accompanied. A minimum of six outside performances required each semester. Maximum credit four units. (CSU, UC)

MUS 156 (1.0 UNIT)
COLLEGE - COMMUNITY CHORUS
Term Hours: 36 Lec, 18 Lab
Letter Grade only
Open to all students who have an interest in learning to sing and who enjoy music. Breath control, tone placement, articulation and enunciation. Rehearsal, performance and study of choral literature. Introduction to music theory as a means of learning to read music rather than learning by rote. Maximum credit four units. (CSU, UC)

MUS 160 (1.0 UNIT)
BEGINNING GUITAR I
Term Hours: 18 Lec, 36 Lab
Letter Grade only
A basic course on how to accompany with the guitar. Stress will be placed on tuning, chording, different types of strums and elementary transposition. (CSU, UC)

MUS 162 (1.0 UNIT)
BEGINNING GUITAR II
Term Hours: 18 Lec, 36 Lab
Letter Grade only
A continuation of MUS 160 with the following additions: 1. Reading music (standard musical notation); 2. A thorough presentation of bar chords including sevenths, ninths, diminished, augmented, and various altered chords; 3. Advanced picking techniques. (CSU, UC)

MUS 171 (1.0 UNIT)
CHAMBER ORCHESTRA
Term Hours: 36 Lec, 18 Lab
Letter Grade only
A study and performance of literature for a small orchestra. Performances in local communities and on campus are required. Fieldtrips to other musical events will be included to help performers develop efficient listening and evaluating practices. Solo and ensemble rehearsals and performances are included. Maximum credit four units. (CSU, UC)

MUS 172 (1.0 UNIT)
COLLEGE - COMMUNITY BAND
Term Hours: 36 Lec, 18 Lab
Letter Grade only
A performance organization specializing in a wide range of literature for the wind band. The primary objective will be to provide the continuing music performing experiences needed by community adults, music educators, and advanced high school students. Maximum credit four units. (CSU, UC)

MUS 173 (1.0 UNIT)
CONCERT BAND
Term Hours: 36 Lec, 18 Lab
Letter Grade only
A performance organization specializing in literature for the wind band. Students will be afforded the opportunity to develop the musical skills and understanding necessary for the highest levels of expressive ensemble performance. Scheduled public performances are a part of the course obligations. Maximum credit four units. (CSU, UC)

MUS 174 (1.0 UNIT)
ESTUDIANTINA
Term Hours: 36 Lec, 18 Lab
Letter Grade only
A performance organization that is open to all students who wish to perform traditional and popular music of Spanish and Latin origin. Songs are sung in both Spanish and English. The ensemble is for singers and instrumentalists who play guitar, piano, bass or percussion. Maximum credit four units. (CSU, UC)

MUS 175 (1.0 UNIT)
INSTRUMENTAL ENSEMBLE
Term Hours: 36 Lec, 18 Lab
Letter Grade only
A performance organization specializing in literature for string, brass, woodwind, and percussion ensembles, or any combination thereof. Designed for musicians who wish to explore, rehearse, and perform literature of all styles and periods. Maximum credit four units. (CSU, UC)

MUS 176 (1.0 UNIT)
REHEARSAL AND PERFORMANCE
Term Hours: 0 Lec, 54 Lab
Letter Grade only
Enrollment contingent upon participation in campus major musical production. Maximum credit, one unit per semester for four semesters. Hours to be arranged. Maximum credit four units. (CSU, UC)

MUS 177 (1.0 UNIT)
STAGE BAND
Term Hours: 36 Lec, 18 Lab
Letter Grade only
A performance ensemble specializing in the literature of the stage and jazz band tradition. Students will be provided ensemble experiences necessary for developing and refining improvisation techniques and performance practices appropriate to jazz, rock, blues, and swing music traditions. Maximum credit four units. (CSU, UC)

MUS 178 (1.0 UNIT)
SYMPHONY ORCHESTRA
Term Hours: 36 Lec, 18 Lab
Letter Grade only
The study and performance of literature for full symphony orchestra in a wide variety of styles. Performances in local communities and on campus are required. Maximum credit four units. (CSU, UC)

MUS 179 (1.0 UNIT)
APPLIED MUSIC
Term Hours: 18 Lec, 9 Lab
Letter Grade only
A course designed to provide students with a concentrated sequence of private instruction in music within a particular performing medium. One section meeting per week on campus, in addition to private instruction. As required conditions, the student must: 1. Secure a teacher approved by the College. 2. Take a minimum of one 30 minute lesson per week. 3. Meet one hour of class per week on campus for performance as scheduled and turn in weekly lesson attendance form. Maximum credit four units. (CSU, UC)

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 the mixing console as it applies to recording, microphones 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 experiences in traditional harmony. An introduction to 20th century harmonic and melodic systems. (CSU, UC)

MUS 222 (3.0 UNITS)
INTERMEDIATE HARMONY II
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A continuation of MUS 220. (CSU, UC)

MUS 240 (1.0 UNIT)
INTERMEDIATE GROUP PIANO I
Term Hours: 18 Lec, 36 Lab
Letter Grade only
A course structured for those students who have attained the performance skill competencies required in Beginning Group Piano. (CSU, UC)

MUS 242 (1.0 UNIT)
INTERMEDIATE GROUP PIANO II
Term Hours: 18 Lec, 36 Lab
Letter Grade only
A continuation of MUS 240. (CSU, UC)

MUS 250 (1.0 UNIT)
INTERMEDIATE VOICE I
Term Hours: 18 Lec, 36 Lab
Letter Grade only
A continuation of MUS 152. (CSU, UC)

MUS 252 (1.0 UNIT)
INTERMEDIATE VOICE II
Term Hours: 18 Lec, 36 Lab
Letter Grade only
A continuation of MUS 250. (CSU, UC)

MUS 260 (1.0 UNIT)
INTERMEDIATE GUITAR I
Term Hours: 18 Lec, 36 Lab
Letter Grade only
A continuation of MUS 162. (CSU)

MUS 262 (1.0 UNIT)
INTERMEDIATE GUITAR II
Term Hours: 18 Lec, 36 Lab
Letter Grade only
A continuation of MUS 260. (CSU)

NURSING: ASSOCIATE DEGREE

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 checkoff 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 theory course that must be repeated, or for students who have dropped out of a semester of nursing and are now attempting to return to the program. (Nontransferable, nondegree applicable)

NURS 092 (1.0 UNIT)
NURSING REENTRY SKILLS LABORATORY II
Term Hours: 0 Lec, 54 Lab
Credit/No Credit only
Prerequisite: Successful completion of Second 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 checkoff 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 theory course that must be repeated, or for students who have dropped out of a semester of nursing and are now attempting to return to the program. (Nontransferable, nondegree applicable)

NURS 094 (1.0 UNIT)
NURSING REENTRY SKILLS LABORATORY III
Term Hours: 0 Lec, 54 Lab
Credit/No Credit only
Prerequisite: Successful completion of Third 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 checkoff 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 theory course that must be repeated, or for students who have dropped out of a semester of nursing and are now attempting to return to the program. (Nontransferable, nondegree applicable)

NURS 096 (1.0 UNIT)
NURSING REENTRY SKILLS LABORATORY IV
Term Hours: 0 Lec, 54 Lab
Credit/No Credit only
Prerequisite: Successful completion of Fourth 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 checkoff 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 theory course that must be repeated, or for students who have dropped out of a semester of nursing and are now attempting to return to the program. (Nontransferable, nondegree applicable)

NURS 100 (1.0 UNIT)
MEDICATION MATHEMATICS
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Prerequisite: Application and/or admission to the Nursing Program.
Recommended preparation: MATH 090 or higher.
This course focuses on those components of safe medication calculation and administration. The emphasis is on accuracy of calculation and the critical thinking involved in client safety. This is an intense class on med math calculations that is required of all nursing majors. Clinical application is integrated into the clinical nursing course. A CD with the class syllabus can be purchased for $2.00. (CSU)

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 experiencing adaptation problems across the lifespan in the physiologic mode, psychologic mode, and selected adaptation problems. Parameters of health are defined and philosophies of nursing are investigated. The aging process is introduced. The physical and psychological needs of the normal and ill individual are explored. Pain assessment, interventions, and evaluation are discussed. Basic nutrition is introduced as one of the caring practices involved in client care. Stress, adaptation, and communication skills are stressed as important nursing roles. Variations in nursing care for individuals of different socio-economic and cultural backgrounds will be considered. Students will be required to purchase malpractice liability insurance and assessment testing fees apply. (CSU)

NURS 111 (1.5 UNITS)
NURSING SKILLS LABORATORY I
Term Hours: 0 Lec, 81 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 110; NURS 112; NURS 116; and, SOC 101 OR ANTH 102.
Recommended Preparation: NURS 100
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 skills checkoff by an instructor. Skills theory will be part of the demonstration. (CSU)

NURS 112 (4.0 UNITS)
NURSING PROCESS APPLICATION I
Term Hours: 0 Lec, 216 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 110; NURS 111; NURS 116; and, SOC 101 OR ANTH 102.
Recommended Preparation: NURS 100.
This course involves clinical application of both theoretical concepts taught in Nursing Process I (NURS 110) and tactile skills taught in Nursing Skills Laboratory 1 (NURS 111). All aspects of the nursing process will be applied to client situations. (CSU)

NURS 113 (1.5 UNITS)
PHARMACOLOGY I
Term Hours: 27 Lec, 0 Lab
Letter Grade only
Prerequisites: MATH 090, ENGL 101, PSY 101, SOC 101 or ANTH 102, BIOL 220, BIOL 204 and BIOL 206 or BIOL 200 and BIOL 202, and NURS 100, all with a grade of "C" or better.
Corequisites: NURS 110, NURS 111, NURS 112.
This course focuses on those components of pharmacology related to safe nursing care and the reduction medication errors. The course includes information about the general classifications of drugs and principles of therapy related to the effects, actions, and therapeutic use of each drug. Nursing actions and rationale for nursing actions are explored. This class will cover drug administration throughout the lifespan, including psychosocial, gender, and cultural influences. Clinical application is integrated into the clinical nursing courses. (CSU)

NURS 121 (1.0 UNIT)
NURSING SKILLS LABORATORY II
Term Hours: 0 Lec, 54 Lab
Letter Grade only
Prerequisite(s): NURS 110; NURS 111; NURS 112; NURS 116; and, SOC 101 OR ANTH 102.
Corequisite(s): NURS 125 (formerly NURS 120 and NURS 122).
This course builds on theory, skills, and clinical applications learned in Semester 1. 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 skills checkoff by the instructor. Skills will be part of the demonstration. (CSU)

NURS 123 (1.5 UNITS)
PHARMACOLOGY II
Term Hours: 27 Lec, 0 Lab
Letter Grade only
Prerequisites: NURS 100, NURS 110, NURS 111, NURS 112, NURS 113, all with a grade of "C" or better.
Corequisites: NURS 121 and NURS 125
The course addresses the principles of medication therapy for acute and complex conditions including the effects, actions, algorithms and recommended use of drugs in the treatment of complex patient problems. Safe administration practices and reduction of medication errors will be covered. The student will learn to manage complex medication administration through various routes including intravenous routes. Nursing actions and rationale for nursing actions are explored. Clinical applications is integrated into the clinical nursing courses. (CSU)

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 in the various roles of the RN. 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 knowledge, skills, and practice in the classroom and laboratory are completed. (CSU)

NURS 211 (1.0 UNIT)
NURSING SKILLS LABORATORY III
Term Hours: 0 Lec, 54 Lab
Letter Grade only
Prerequisite(s): NURS 121, NURS 125 (formerly NURS 120 and NURS 122), NURS 200, and NURS 202.
Corequisite(s): NURS 231 (formerly NURS 210 and NURS 212).
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 skills checkoff by the instructor. Mastery of previous learned skills will be assessed. Skills theory will be part of the demonstration. (CSU)

NURS 214 (1.0 UNIT)
BASIC ARRHYTHMIA RECOGNITION
Term Hours: 18 Lec, 0 Lab
Letter Grade only
A basic program using a systematic approach to interpretation and recognition of cardiac arrhythmias in the monitored hospital patient and the appropriate treatment and/or nursing intervention required. Suitable for the ICU/CCU nurse or nursing assistant, beginning cardiopulmonary technician, the med/surg nurse who cares for the patient on telemetry, or for inactive nurses who wish to update their knowledge and maintain their competency. (Same as VN 214) (CSU)

NURS 216 (2.0 UNITS)
PATIENT CARE MANAGEMENT AND LEADERSHIP
Term Hours: 36 Lec, 0 Lab
Letter Grade only
Recommended preparation: NURS 110, 111, 112, 121, 125 (formerly NURS 120 and NURS 122).
This course provides an overview of leadership and management as related to the role of the registered nurse in providing patient care and case management. Concepts of critical thinking and patient care management are explored. Principle of delegation in a health care environment are discussed. The nurses role as team leader, facilitator or care and patient advocate are examined. (CSU)

NURS 221 (1.0 UNIT)
NURSING SKILLS LABORATORY IV
Term Hours: 0 Lec, 54 Lab
Letter Grade only
Prerequisite(s): NURS 211 and NURS 231 (formerly NURS 210 and NURS 212).
Corequisite(s): NURS 230 and NURS 241 (formerly NURS 220 and NURS 222).
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 skills checkoff by the instructor. Mastery of all previous learned skills will be assessed. Skills theory will be part of the demonstration. (CSU)

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 concurrent classroom and clinical settings. (CSU)

NURS 225 (1.0 UNIT)
PSYCHIATRIC & MENTAL HEALTH NURSING APPLICATIONS
Term Hours: 0 Lec, 36 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 224.
This course provides the clinical applications of theoretical concepts taught in Psychiatric and Mental Health Nursing. Emphasis is on the nursing process, communication, psychopathology, and the principles of psychiatric/mental health nursing, in a variety of clinical settings. (CSU)

NURS 230 (1.0 UNIT)
NURSING TRENDS
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Prerequisite(s): NURS 200; NURS 202; NURS 211; and, NURS 231 (formerly NURS 210 and NURS 212).
Corequisite(s): NURS 221, and NURS 241 (formerly NURS 220 and NURS 222).
The course is designed to integrate previous science and nursing course theory. The course addresses, reviews, and scrutinizes current issues affecting nursing and the health care community. Legal and ethical issues, health care in current society, nursing educational pathways, health care delivery systems, legal and ethical concerns, including the California Nurse Practice Act, are explored. Nursing educational pathways for life-long learning are reviewed. The course explores the profession of nursing and the transition from student to professional nurse. (CSU)

NURS 231 (8.5 UNITS)
NURSING PROCESS AND APPLICATION III
Term Hours: 81 Lec, 216 Lab
Letter Grade only
Prerequisite(s): NURS 121, NURS 125 (formerly NURS 120 and NURS 122), NURS 200, NURS 201.
Corequisite(s): NURS 211.
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 and developmental 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 the Cardiac, Gastrointestinal, Musculoskeletal, Endocrine and Renal Systems. Variations in nursing care for individuals of different socio-economic and cultural backgrounds will be considered. Theories of leadership and management as related to nursing in the acute care setting is introduced. This course involves clinical application of both theoretical concepts and tactile skills taught in Nursing Process and Nursing Application I and II, Nursing Skills Laboratory III, II and I, and Pharmacology. All aspects of the nursing process will be applied to client situations. Students will be required to purchase malpractice liability insurance, and assessment testing fees will be required. (CSU) (Replaces NURS 210 and NURS 212)

NURS 238 (3.0 UNITS)
HOME HEALTH NURSING
Term Hours: 27 Lec, 81 Lab
Letter Grade only
For the ADN graduate or licensed RN. Addresses opportunities and challenges in home care through didactic and clinical experiences. Topics include current issues of reimbursements and regulations, roles and responsibilities of the home health nurse, documentation, quality assurance, interpersonal aspects, risk management and future trends in home health nursing. (CSU)

NURS 240 (2.0 UNITS)
INTRAVENOUS THERAPY TECHNIQUES
Term Hours: 36 Lec, 0 Lab
Letter Grade only
Prerequisite: Permission of instructor.
A course of instruction in intravenous therapy which includes fluid solutions of electrolytes, nutrients, vitamins, blood and blood products. (Same as VN 240) (CSU)

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 systems. Multi-system stressors are presented. Community nursing and home health nursing are discussed. The nurse as a leader of the nursing team and case management in nursing is explored. This course involves clinical application of both new and previous theoretical concepts and tactile skills taught in Nursing Process and Application I, II and III, Nursing Skills Laboratory I, II, III and IV, and Psychiatric Nursing and Pharmacology. All aspects of the nursing process will be applied to client situations. Assessment testing fee is required from student. (CSU) (Replaces NURS 220 and NURS 222)

NURS 245 (3.0 UNITS)
NCLEX PREPARATION FOR FIRST TIME TEST TAKERS
Term Hours: 54 Lec, 0 Lab
Credit/No Credit only
Recommended Preparation: Completion of a Nursing (RN) program.
The participant who completes the NCLEX Preparation Program will meet the standards of competency, delineated by the Board of Registered Nursing for the State of California, by being able to pass the NCLEX exam and be licensed as a Registered Nurse. The successful participant will pass the licensing exam. (Nontransferable, nondegree applicable)

NURS 246 (6.0 UNITS)
NCLEX PREPARATION II
Term Hours: 90 Lec, 54 Lab
Credit/No Credit only
Prerequisite: Completed the requirements for the NCLEX-RN exam.
This NCLEX Preparation course is intended for the California State Board eligible graduate nurse who has graduated from an accredited/approved nursing program in or out of the United States and has taken the exam at least one time without successfully passing the exam, referred to as a "Repeat Test Takers". Emphasis will be placed on test taking ability. (Nontransferable, nondegree applicable)

NURSING: VOCATIONAL

VN 089 (1.0 UNIT)
INDIVIDUAL STUDIES: VN
Term Hours: 0 Lec, 54 Lab
Credit/No Credit only
Prerequisite: Admission to the Vocational Nursing Program.
This course is designed to facilitate the learning of nursing knowledge, skills, and concepts through individualized, computer enhanced and mediated instruction. It is open to students in the nursing program and recent graduates from the nursing program who seek additional NCLEX-PN preparation. (Nontransferable, nondegree applicable)

VN 110 (5.0 UNITS)
INTRODUCTION TO PATIENT CARE I
Term Hours: 36 Lec, 162 Lab
Letter Grade only
Prerequisites: AHP 100, BIOL 090, PSY 101, ENGL 101, current CPR certification (American Heart Health Care Provider Course only).
Theory and skills basic to the provision of safe nursing care are introduced in the classroom, skills laboratory, and clinical. Components of the nursing process are studied. Parameters of health are defined and the physical and psychological needs of the normal individual are explored. Students will be required to purchase malpractice liability insurance, and assessment testing fees will also apply. (CSU)

VN 112 (5.0 UNITS)
INTRODUCTION TO PATIENT CARE II
Term Hours: 36 Lec, 162 Lab
Letter Grade only
Prerequisites: VN 110, VN 114 or permission of instructor.
Communication skills are presented in this course. Basic psychological and physiological concepts related to stress that cause disruptions in the individual's ability to adapt to his/her environment are presented in the classroom. Concurrently, in clinical sessions, the student relates learned skills and theory to the care of clients with well-defined commonly occurring illnesses in the hospital setting. (CSU)

VN 114 (1.5 UNITS)
PHARMACOLOGY I
Term Hours: 27 Lec, 0 Lab
Letter Grade only
Prerequisite: Admission to the Nursing Program or permission of the instructor.
An introductory course in Pharmacology designed to assist the student to acquire basic skills in drug dosage calculations and the administration of medications. A skills laboratory requirement is included. Clinical application will be integrated into VN 112. (CSU)

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. Concepts acquired in previous courses are applied with increasing complexity in caring for individuals of all ages. Physiological, psychological, emotional, cultural, and social aspects are integrated into the planning and implementation of nursing care. Concurrent clinical experiences are provided whenever possible. In conjunction, appropriate nursing skills are learned in the classroom. Students will be required to purchase malpractice liability insurance, and assessment testing fees will apply. (CSU)

VN 132 (5.5 UNITS)
COMMON HEALTH PROBLEMS III
Term Hours: 45 Lec, 162 Lab
Letter Grade only
Prerequisite: VN 130 or permission of the instructor.
The final nine-week course designed to provide a progressive and sequential study of common, well-defined health problems is presented in VN 132. The concepts from previous courses are applied with increasing complexity to the caring of individuals throughout the lifespan. The pathophysiology, treatment, and nursing management of common disorders involving the neurological, integumentary, gastrointestinal, and renal systems are studied in a progressive sequence across the lifespan. Principles of growth and development are reinforced. The nursing process is utilized by the student to identify the problems and nursing interventions needed for selected patients in the clinical setting. (CSU)

VN 214 (1.0 UNIT)
BASIC ARRHYTHMIA RECOGNITION
Term Hours: 18 Lec, 0 Lab
Letter Grade only
Prerequisite: Permission of the instructor.
A basic program using a systematic approach to interpretation and recognition of cardiac arrhythmias in the monitored hospital patient and the appropriate treatment and/or nursing intervention required. Suitable for the ICU/CCU nurse or nursing assistant, beginning cardiopulmonary technician, the med/surg nurse who cares for the patient on telemetry, or for inactive nurses who wish to update their knowledge and maintain their competency. (Same as NURS 214) (CSU)

VN 240 (2.0 UNITS)
INTRAVENOUS THERAPY TECHNIQUES
Term Hours: 36 Lec, 0 Lab
Letter Grade only
Prerequisite: Permission of instructor.
A course of instruction in intravenous therapy which includes fluid solutions of electrolytes, nutrients, vitamins, blood and blood products. (Same as NURS 240) (CSU)

NUTRITION

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)

PERSONAL DEVELOPMENT

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, sexual identity and choices, substance abuse, and community resources. (Nontransferable, nondegree applicable) (Formerly HREL 064)

PD 066 (2.0 UNITS)
CONTEMPORARY COLLEGE AFFAIRS
Term Hours: 18 Lec, 36 Lab
Credit/No Credit only
This course is designed to develop leadership qualities in students desiring to better understand the principles of publicity, finance, organization procedures, group dynamics, and Human relations. Maximum of eight units. (Nontransferable, AA/AS degree only)

PD 100 (3.0 UNITS)
PERSONAL AND CAREER DEVELOPMENT
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
This course examines the process a student would follow in making a realistic career decision. Students planning to enter professions involving helping relationships such as education, social work, counseling, psychology, community work, and related areas, in addition to students who are undecided about their own future and would profit from the course. Self-awareness will be appraised by testing and discussing interests, aptitudes, abilities, limitations and life goals. Career awareness will be facilitated by exploring the world of work in terms of occupational outlook, wages, training required, opportunities for advancement and life styles. A $6 lab fee will be charged. (CSU) (Formerly HREL 100)

PD 120 (3.0 UNITS)
COLLEGE SUCCESS SKILLS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course is designed to assist students in learning how to reach their educational and life planning goals. Topics covered will include orientation to Imperial Valley College, study skills, and personal adjustments to college life. Strategies covered will include skills such as creative goal setting, note-taking, listening, time-management, learning styles, test taking, library and financial resources and educational program planning. Course is recommended for new and continuing students. (CSU)

PHILOSOPHY

PHIL 100 (3.0 UNITS)
INTRODUCTION TO PHILOSOPHY I
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Man's interpretation of the nature and meaning of reality. Emphasis placed upon the existence of God, free will, and mind-body problems. (CSU, UC)

PHIL 102 (3.0 UNITS)
INTRODUCTION TO PHILOSOPHY II
Term Hours: 54 Lec, 0 Lab
Letter Grade only
The place of philosophy in intelligent living and the methods and significance of philosophical inquiry. Emphasis is placed upon problems of value and human nature. PHIL 102 may be taken before PHIL 100. (CSU, UC)

PHIL 104 (3.0 UNITS)
ETHICS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introduction to significant and typical value theories and systems, and of the concrete problems such theories seek to explain. Emphasis placed upon teaching students to critically analyze their own value systems. (Same as RELS 104) (CSU, UC)

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 endurance, weight control, strength, flexibility, and relaxation. (CSU) (UC credit limited. See a counselor.)

PE 101 (1.0 UNIT)
EXERCISE LAB
Term Hours: 0 Lec, 36 Lab
Letter Grade or Credit/No Credit
This is an open-entry open-exit physical fitness course designed to develop and encourage positive attitudes and habits with regard to lifetime fitness. Students will engage in a cardiovascular endurance program, muscular strength and endurance program, flexibility program, or a combination of these. Physical fitness appraisals may be utilized to assist students in selecting an appropriate individualized program. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

PE 102 (1.0 UNIT)
PHYSICAL FITNESS
Term Hours: 0 Lec, 36 Lab
Letter Grade only
This course is designed to emphasize physical conditioning and development. Equips the student with a repertoire of exercises and conditioning activities which can be used to maintain physical fitness throughout college and adult life. Maximum credit four units. (CSU) (UC credit limited. See a counselor)

PE 103 (1.0 UNIT)
PHYSICAL FITNESS, WOMEN
Term Hours: 0 Lec, 36 Lab
Letter Grade only
This course is designed to emphasize physical conditioning and development. Equips the student with a repertoire of exercises and conditioning activities which can be used to maintain physical fitness throughout college and adult life. Maximum credit four units. (CSU) (UC credit limited. See a counselor)

PE 104 (1.0 UNIT)
WEIGHT TRAINING
Term Hours: 0 Lec, 36 Lab
Letter Grade only
A course designed to present the basic fundamentals of weight training such as the weight apparatus, proper lifting techniques and basic knowledge of specific muscle groups. Equips the students with a variety of exercises and conditioning activities which can be used to maintain physical fitness throughout college and adult life. Maximum credit four units. (CSU) (UC credit limited. See a counselor)

PE 105 (1.0 UNIT)
PUBLIC SAFETY FITNESS
Term Hours: 0 Lec, 36 Lab
Letter Grade or Credit/No Credit
The purpose of this course is to assist students with their physical fitness conditioning specific to Public Safety agencies. Students will engage in a variety of exercises and conditioning activities designed to help them pass the required physical fitness standards used by Public Safety agencies in hiring and/or promoting. Emphasis will be placed on aerobic, anaerobic, strength, and flexibility activities which will assist the student in meeting and/or maintaining the physical fitness levels demanded by their chosen careers. (CSU)

PE 106 (1.0 UNIT)
WALKING/JOGGING FITNESS
Term Hours: 0 Lec, 36 Lab
Letter Grade or Credit/No Credit
This course provides the knowledge and skills necessary to improve cardiovascular endurance and fitness through walking and/or jogging exercise. Class may be held on land or in the water. Topics will include general fitness principles, and aerobic endurance, muscle endurance and flexibility training exercises. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

PE 107 (1.0 UNIT)
AQUATIC EXERCISE
Term Hours: 0 Lec, 36 Lab
Letter Grade or Credit/No Credit
Prerequisite(s): Comfort in and around swimming pools.
Course will include the development of fundamental elements of fitness in the aquatic environment. Progressive instruction will include more strenuous exercises for cardiorespiratory fitness, muscular endurance and flexibility. Exercises will be performed in shallow and/or deep water. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

PE 110 (2.0 UNITS)
PHYSICAL EDUCATION ACTIVITY - MILITARY SERVICE
Term Hours: 0 Lec, 0 Lab
Credit/No Credit only
Prerequisite: The satisfactory completion of basic or recruit training and 180 days or more active service in the military of the United States of America. The student wishing credit for military service must present his/her DD214 or equivalent supporting document to the Veterans Assistant and register for the credit. If the student registers for the class for military credit and does not submit verification of service, he/she will be dropped as a No-Show and will not receive credit. PE 110 does not count for units toward VA, Financial Aid, or full-time student status. These are not contact hours. May receive credit only once. (CSU)

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. As a result of this class the student will improve his or her general physical fitness and volleyball skill performance. Principles, techniques, safe practices and strategies of volleyball will be taught throughout this class. (CSU) (UC credit limited. See a counselor.)

PE 129 (1.0 UNIT)
VOLLEYBALL - ADVANCED
Term Hours: 0 Lec, 36 Lab
Letter Grade only
Recommended Preparation: Completion of four semesters of PE 128 and demonstrate competency in advanced skills.
Continuation of PE 128. More advanced volleyball skills. More emphasis on tournament play and advanced strategy. More emphasis will be placed on spiking and blocking. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

PE 130 (1.0 UNIT)
ADAPTED PHYSICAL EXERCISE
Term Hours: 0 Lec, 36 Lab
Letter Grade or Credit/No Credit
Prerequisite: A signed physician's medical release form is required. Level of strength and ability sufficient to avoid injury to the student and others in course activities is required.
Open only to students who are unable to participate in the regular physical education program. The course is specifically designed to meet the individual needs of these students. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

PE 131 (1.0 UNIT)
ADAPTED SPORTS
Term Hours: 0 Lec, 36 Lab
Letter Grade or Credit/No Credit
Prerequisite: A signed physician's medical release form is required. Level of strength and ability sufficient to avoid injury to the student and others in course activities is required.
This course is designed to broaden the physically disabled student's awareness of group activities and develop a willingness to participate. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

PE 132 (1.0 UNIT)
GROUP SPORTS FOR PEOPLE WITH DISABILITIES
Term Hours: 0 Lec, 36 Lab
Letter Grade or Credit/No Credit
Prerequisite: A signed physician's medical release form is required. Level of strength and ability sufficient to avoid injury to the student and others in course activities is required.
This course is designed to broaden the physically disabled student's awareness of group activities and develop a willingness to participate. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

PE 140 (1.0 UNIT)
BASEBALL - ADVANCED
Term Hours: 0 Lec, 36 Lab
Letter Grade only
Recommended Preparation: Participation on high school (or equivalent) baseball team.
This course is designed for those students of advanced ability in baseball skills who have an interest in playing competitive baseball at the college level. Instruction will cover the development of fundamental offensive and defensive skills with an emphasis on advances techniques, strategies, physical training, and team preparation. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

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
Prerequisite(s): Student must be able to jump in deep water and swim 50 yards nonstop, including 25 yards of Front Crawl.
Recommended Preparation: Completion of PE 121. Previous swim training.
Supervised swim workouts designed to improve competitive strokes and turns and to enhance cardiovascular fitness. Pre- and post-tests of cardiovascular fitness levels will be incorporated. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

PE 143 (1.0 UNIT)
ADVANCED BASKETBALL - MEN
Term Hours: 0 Lec, 36 Lab
Letter Grade only
Recommended Preparation: Participation on the competitive high school (or equivalent) basketball team.
This course is designed for those students of advanced ability in basketball skills who have an interest in playing competitive basketball at the college level. Instruction will cover the development of fundamental offensive and defensive skills with an emphasis on advanced techniques, strategies, and team preparation. (CSU)

PE 144 (1.0 UNIT)
ADVANCED BASKETBALL - WOMEN
Term Hours: 0 Lec, 36 Lab
Letter Grade only
Recommended Preparation: Prior experience in basketball is strongly suggested.
This class is designed for students with previous basketball knowledge. This class is a preparatory for intercollegiate participation. Advanced principles, techniques, safe practices and strategies of basketball will be taught. Sportsmanship and enjoyment of the game will be emphasized. (CSU)

PE 150 (2.0 UNITS)
INTERCOLLEGIATE BASEBALL AND PE
Term Hours: 0 Lec, 180 Lab
Letter Grade only
Eligibility will be determined by Conference rules; IVC guidelines in the AS Handbook for athletics will also apply. Theory and practice of baseball. Limited to students trying out for varsity team. The student must schedule for a minimum of 10 hours per week. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

PE 151 (2.0 UNITS)
INTERCOLLEGIATE BASKETBALL AND PE
Term Hours: 0 Lec, 180 Lab
Letter Grade only
Eligibility will be determined by Conference rules; IVC guidelines in the AS Handbook for athletics will also apply. Theory and practice of basketball. Limited to students trying out for varsity team. The student must schedule for a minimum of 10 hours per week. Maximum credit eight units. (CSU) (UC credit limited. See a counselor.)

PE 152 (2.0 UNITS)
INTERCOLLEGIATE SOCCER AND PE
Term Hours: 0 Lec, 180 Lab
Letter Grade only
Eligibility will be determined by Conference rules; IVC guidelines in the AS Handbook for athletics will also apply. Theory and practice of soccer. Limited to students trying out for varsity team. The student must schedule for a minimum of 10 hours per week. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

PE 153 (2.0 UNITS)
INTERCOLLEGIATE SOFTBALL AND PE
Term Hours: 0 Lec, 180 Lab
Letter Grade only
Eligibility will be determined by Conference rules; IVC guidelines in the AS Handbook for athletics will also apply. Theory and practice of women's softball. Limited to students trying out for varsity team. The student must schedule for a minimum of 10 hours per week. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

PE 154 (2.0 UNITS)
INTERCOLLEGIATE TENNIS AND PE
Term Hours: 0 Lec, 180 Lab
Letter Grade only
Eligibility will be determined by Conference rules; IVC guidelines in the AS Handbook for athletics will also apply. Open to both men and women. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

PE 155 (2.0 UNITS)
INTERCOLLEGIATE VOLLEYBALL 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 volleyball experience in an athletic team.
This class is designed for preparation and training involved with intercollegiate volleyball competition. (CSU) (UC credit limited. See a counselor.)

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. Satisfies physical education activity class requirement. Maximum credit eight units. (CSU) (UC credit limited. See a counselor.)

PE 170 (1.0 UNIT)
BEGINNING BOWLING
Term Hours: 0 Lec, 36 Lab
Letter Grade only
This course emphasizes skill development and acquisition of knowledge about a life-time sport, bowling. The students will be introduced to bowling skills such as: approach, delivery, scoring, and league experience. Class meets off-campus at Brunswick XL Bowling Alley, located at 950 North Imperial Ave., El Centro. Phone 482-0554. Additional materials fees required. (CSU) (UC credit limited. See a counselor.)

PE 171 (1.0 UNIT)
INTERMEDIATE BOWLING
Term Hours: 0 Lec, 36 Lab
Letter Grade only
Recommended Preparation: PE 170.
This course emphasizes skill development and acquisition of knowledge about a life-time sport, bowling. The students will continue to develop in bowling skills such as: approach, delivery, scoring, and league experience, in addition to being able to analyze, evaluate and modify technique to improve performance. Class meets off-campus at the Brunswick XL Blowing Alley located at 950 North Imperial Ave., El Centro. Phone 482-0554. Additional materials fees required. (CSU) (UC credit limited. See a counselor.)

PE 172 (1.0 UNIT)
ADVANCED BOWLING
Term Hours: 0 Lec, 36 Lab
Letter Grade only
Recommended Preparation: PE 170 and PE 171.
This course is designed for the avid bowling, having thorough knowledge of bowling principles. Competition in tournament play will be initiated encouraging league experience. Class meets off-campus at the Brunswick XL Blowing Alley located at 950 North Imperial Ave., El Centro. Phone 482-0554. Additional materials fees required. (CSU) (UC credit limited. See a counselor.)

PE 200 (2.0 UNITS)
THEORY OF BASEBALL
Term Hours: 36 Lec, 0 Lab
Letter Grade only
A history of the game, knowledge of rules, current and possible future trends in the game, coaching techniques, and scouting. Recommended for physical education majors, potential coaches, and recreation majors. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

PE 201 (2.0 UNITS)
THEORY OF BASKETBALL
Term Hours: 36 Lec, 0 Lab
Letter Grade only
This course is designed for physical education majors, recreation majors, and potential coaches. Coaching techniques and theories, history rules and current possible future trends in the game will be offered. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

PE 202 (2.0 UNITS)
THEORY OF SOFTBALL
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, practice organization, strategies and theories, and possible future trends in softball will be offered. Maximum credit four units. (CSU) (UC credit limited. See a counselor.)

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
Foundations of dance in western civilization. Dance as art, therapy, ritual and social discourse. Analysis of dance in film, video, and live performance. Appreciation for artistic intent, technique and style. (Same as HUM 212) (CSU, UC)

PE 220 (2.0 UNITS)
INTRODUCTION TO ATHLETIC TRAINING
Term Hours: 36 Lec, 0 Lab
Letter Grade only
Introductory course in recognition, assessment, management, care and prevention of injuries in physical activities. Includes techniques of applying supportive materials, rehabilitation of injuries, and use of therapeutic modalities. (CSU, UC)

PE 221 (2.0 UNITS)
PSYCHOLOGY OF COACHING
Term Hours: 36 Lec, 0 Lab
Letter Grade only
A course covering all the aspects of the psychology of coaching sports. Includes certain guides to show how teaching and learning may be applied to the coaching of sports, and to bring out the relationship of meaningful learning to successful athletic coaching. (CSU)

PE 222 (3.0 UNITS)
SPORTS OFFICIATING
Term Hours: 36 Lec, 54 Lab
Letter Grade only
This course is designed to provide for the study and interpretation of rules for various men's and women's sports, and the philosophies, procedures, practices, and mechanics of officiating games including football, basketball, baseball softball, soccer, tennis, track, volleyball and wrestling. (CSU) (UC credit limited. See a counselor.)

PE 223 (2.0 UNITS)
STRUCTURING INTRAMURALS
Term Hours: 18 Lec, 36 Lab
Letter Grade only
Recommended Preparation: Basic knowledge and/or experience in competitive sports and recreational games. The course is designed to provide students experience in structuring various types of sports and recreation tournaments through assisting in the IVC intramural program. (CSU)

PE 224 (3.0 UNITS)
PHYSICAL EDUCATION FOR SPECIAL OLYMPICS
Term Hours: 36 Lec, 72 Lab
Letter Grade only
A course designed to train college students to condition and prepare retarded persons for competition in Special Olympics. Maximum credit 6 units. (CSU)

PHYSICAL SCIENCE

PHSC 110 (3.0 UNITS)
PHYSICAL SCIENCE
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: MATH 090 with a grade of "C" or better.
This course is designed to give an understanding of the fundamental principles of physics and chemistry as they relate to the structure and properties of matter and the principles of motion and energy, for the liberal studies student. (CSU) (UC credit limited. See a counselor.)

PHYSICS

PHYS 200 (5.0 UNITS)
GENERAL PHYSICS I
Term Hours: 72 Lec, 54 Lab
Letter Grade only
Prerequisite: MATH 192 with a grade of "C" or better.
This course is designed to give an understanding of the fundamental principles of physics in the area of mechanics. (CSU, UC)

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, quantum mechanics and atomic physics. (CSU, UC)

POLITICAL SCIENCE

POLS 100 (3.0 UNITS)
INTRODUCTION TO POLITICAL SCIENCE
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introduction to the theories, principles, and problems of modern political life and the methods of studying and acquiring political knowledge. Illustrative materials drawn primarily from the American experience. (CSU/UC)

POLS 102 (3.0 UNITS)
AMERICAN GOVERNMENT AND POLITICS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
The origin, development and operation of local, state and national political institutions within the United States emphasizing the contemporary operations of the American political system. (CSU, UC)

POLS 104 (3.0 UNITS)
COMPARATIVE POLITICS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: POLS 100 or POLS 102.
A comparative study of modern political systems. Emphasis upon patterns of political action and problems of decision-making in various cultural contexts. (CSU, UC)

POLS 106 (3.0 UNITS)
INTRODUCTION TO INTERNATIONAL RELATIONS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introductory course stressing the techniques of analysis of the basic factors making for conflict and adjustment in contemporary international relations. Problems of nationalism and imperialism, elements of national power, causes of war, methods of seeking peace, the role of international organizations, and the foreign policies of the major powers will be considered. Emphasis will be upon contemporary developments. (CSU, UC)

PSYCHOLOGY

PSY 101 (3.0 UNITS)
INTRODUCTION TO PSYCHOLOGY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Twelfth grade reading level highly recommended.
An introduction to the study of human behavior and cognition. Includes consideration of many of the major topics in psychology including, but not limited to, the biology of behavior, learning, human development, sleep and consciousness, personality, mental disorders and therapy, and social processes. (CSU, UC)

PSY 104 (3.0 UNITS)
CHILD GROWTH AND DEVELOPMENT
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. (Same as CDEV 104) (CSU) (UC credit limited. See a counselor.) (Formerly PSY/CFCS 106)

PSY 120 (3.0 UNITS)
INTRODUCTION TO COUNSELING
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A study of the theory, process, and practice of interviewing and counseling in community service and other counseling situations. The course is designed to assist the student to gain knowledge and develop skills in order to help a client or interviewee in counseling situations. Theories of counseling and basic helping skills will be presented, demonstrated, and practiced. (Same as ADS 120) (CSU)

PSY 130 (3.0 UNITS)
GROUP LEADERSHIP AND GROUP PROCESS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course will introduce the student to group theory and process, and how groups affect the whole social scene. It will examine membership in, and leadership of, various kinds of groups, emphasizing group process. Consideration will be given to goals and strategies of social change and the necessity for social change in relation to personal and social values. The factors involved in problems of communications, effective emotional responses and personal growth also will be highlighted, emphasizing the group process as a means of changing behavior. (Same as ADS 130) (CSU)

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
An exploration of the dynamics of interpersonal relationships. Starting, developing, understanding, and improving one's relationships with self and others will be the focus of this course. Topics will include love, jealousy, acceptance, listening skills, communication skills, perception of self and others, and self-disclosure. The course involves lecture, discussion, and experiential techniques. (CSU)

PSY 146 (3.0 UNITS)
PSYCHOLOGY OF HUMAN SEXUALITY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A study of the psychology of Human Sexuality. Includes anatomy and physiology of sexual function, sexual dysfunctions, sexually transmitted diseases, infertility, contemporary sexual attitudes and behaviors, sexual deviations, and controversies and implications for the individual and the society. (CSU, UC)

PSY 200 (3.0 UNITS)
BIOLOGICAL PSYCHOLOGY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Successful completion of PSY 101 strongly recommended and twelfth grade reading level highly recommended.
An exploration of the biological basis of human behavior. The development, structure and functions of the nervous system is thoroughly examined to provide insight into its complex relationship with human behavior, thought, and feelings. The history of neuroscience and methods of scientific inquiry are reviewed. (CSU, UC)

PSY 202 (3.0 UNITS)
LEARNING
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Successful completion of PSY 101 strongly recommended and the twelfth grade reading level highly recommended.
This course will explore the role of learning in the adaptation of humans and other animals to their changing environment. Research methodology, Pavlovian and operant theories, applications and implications, and higher cognitive processes will be examined. (CSU, UC)

PSY 204 (3.0 UNITS)
DEVELOPMENTAL PSYCHOLOGY: CONCEPTION TO DEATH
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A study of human development from conception to death, including conception, prenatal development, infancy, toddlerhood, preschool years, middle childhood, adolescence, early adulthood, middle adulthood, later adulthood, and death. The course covers psychodynamic theories of development, current research, and major developmental tasks. (CSU) (UC credit limited. See a counselor.)

PSY 206 (3.0 UNITS)
SOCIAL PSYCHOLOGY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
The study of how personality and behavior are influenced by the social environment. The conceptual and research focus is on the relationship between the individual and society. This course includes such topics as: self-concept and social identity, group behavior and group membership. (Same as SOC 206) (CSU, UC)

PSY 208 (3.0 UNITS)
ABNORMAL PSYCHOLOGY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Twelfth grade reading level highly recommended, PSY 101, PSY 142 and PSY 200 recommended.
Covers the major categories of mental disorders listed in the latest version of the "Diagnostic and Statistical Manual of Mental Disorders" (DSM). Draws upon important contributions from various disciplines and theoretical stances. Case studies and research-based explanations are examined. Controversial topics related to mental disorder are explored. (CSU, UC)

PSY 210 (3.0 UNITS)
CRISIS INTERVENTION AND REFERRAL TECHNIQUES
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Techniques used for brief therapy crisis intervention, intake interviewing and referral will be studied and practiced. Special attention will be given to the process of intervention, admitting, and recording of information as it pertains to alcohol and drug abuse clients. Through an experiential format, participants will learn and practice skills in brief therapy, different levels of client communication and intake interviewing. (Same as ADS 210) (CSU)

PSY 212 (3.0 UNITS)
RESEARCH METHODS IN PSYCHOLOGY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: Successful completion of PSY 101 strongly recommended.
This course introduces students to psychological research reports, as well as methods and critical analysis techniques that may be applied to diverse research studies and issues. (CSU, UC)

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 staff and professionally trained personnel. (Same as ADS 220) (CSU)

PSY 221 (3.0 UNITS)
PRACTICUM
Term Hours: 18 Lec, 108 Lab
Letter Grade only
Prerequisite: ADS/PSY 220.
A continuation of ADS/PSY 220 with emphasis in gaining further experience in the same institution or agency or a different institution or agency. (Same as ADS 221) (CSU)

RELIGIOUS STUDIES

RELS 100 (3.0 UNITS)
RELIGIONS OF THE MODERN WORLD
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introduction to the various contemporary religions of the world with an emphasis on their historical development. Study of the basic beliefs in religions such as Hinduism, Buddhism, Taoism, Confucianism, Judaism, Christianity, and Islam. (CSU, UC) (Formerly PHIL 108)

RELS 104 (3.0 UNITS)
ETHICS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introduction to significant and typical value theories and systems and of the concrete problems such theories seek to explain. Emphasis placed upon teaching students to critically analyze their own value system. (Same as PHIL 104) (UC, CSU)

SOCIAL WORK

SW 220 (3.0 UNITS)
INTRODUCTION TO SOCIAL WORK
Term Hours: 54 Lec, 0 Lab
Letter Grade only
A survey course that introduces the field of social work as a profession within the context of the institution of social welfare. Development of an understanding of social work principles, goals, values, and methods through readings and class discussion. An unpaid assignment in an agency setting is required. (CSU)

SOCIOLOGY

SOC 101 (3.0 UNITS)
INTRODUCTION TO SOCIOLOGY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introductory course to the study of society. Major ideas, concepts, and methods in the study of society to include culture, social structure, social stratification, deviance and social control, social change, and marriage in the family. (CSU, UC)

SOC 102 (3.0 UNITS)
CONTEMPORARY SOCIAL PROBLEMS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course deals with contemporary social problems and will cover those areas that are currently being defined by our society as problem issues. Emphasis will be given to understanding these problems on the societal level, the group level, and from the standpoint of the individual. (CSU, UC)

SOC 110 (3.0 UNITS)
MARRIAGE AND THE FAMILY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introductory course to marriage and the family. Major ideas and concepts include: the history of love and marriage, myths and hidden realities, sex roles, singlehood and pairing, communication and conflict resolution, separation and divorce, remarriage. (CSU)

SOC 124 (3.0 UNITS)
CRIMINOLOGY
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.
This course explores the nature of crime, measurement and research of crime, the extent of crime, major theories of crime causation, criminal typologies, criminal justice system response to crime, and societal reaction to crime. (Same as AJ 124) (CSU)

SOC 150 (3.0 UNITS)
SOCIOLOGY OF MINORITY GROUPS
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course includes the study of the theories of prejudice and discrimination of different groups within American society. It will cover an historical analysis of the problems of these groups and typical areas will include racism, sexism, ageism, and ethnic and religious discrimination. (Same as ADS 150) (CSU, UC)

SOC 206 (3.0 UNITS)
SOCIAL PSYCHOLOGY
Term Hours: 54 Lec, 0 Lab
Letter Grade only
The study of how personality and behavior are influenced by the social environment. The conceptual and research focus is on the relationship between the individual and society. This course includes such topics as: self-concept and social identity, group behavior and group membership. (Same as PSY 206) (CSU, UC)

SPANISH

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 of SPAN 110 covering the uses of all Spanish tenses with special emphasis on the subjunctive and imperative modes. (CSU) (UC credit limited. See a counselor.)

SPAN 210 (5.0 UNITS)
INTERMEDIATE SPANISH II
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 210 only after having achieved all of the minimal performance objectives specified for SPAN 100, SPAN 110, and SPAN 200. A recent course in SPAN 200 or the recent completion of 4 years of high school Spanish with good retention should enable the student to succeed in SPAN 210. A continuation of SPAN 200 but with greater emphasis on the reading and writing skills. The student will work with all tenses and modes of the Spanish language. (CSU) (UC credit limited. See a counselor.)

SPAN 220 (5.0 UNITS)
BILINGUAL SPANISH I
Term Hours: 90 Lec, 0 Lab
Letter Grade or Credit/No Credit
Prerequisite: Spanish speaking fluency, native or near-native or 3 years of high school Spanish.
The course is designed to develop in the student the four basic language skills of listening, speaking, reading, and writing with a constant comparison between Spanish and English usage. Emphasis will be on the indicative tenses: present, preterit, imperfect, and future. These skills will be explored through reading in the contemporary culture of Spain, Latin America, and the Spanish speaking communities in the United States - Mexican, Cuban, Puerto Rican, and Sephardic. (CSU) (UC credit limited. See a counselor.)

SPAN 221 (5.0 UNITS)
BILINGUAL SPANISH II
Term Hours: 90 Lec, 0 Lab
Letter Grade or Credit/No Credit
Continuation of SPAN 220. Emphasis on the conditional and the subjunctive forms. (CSU) (UC credit limited. See a counselor.)

SPAN 222 (3.0 UNITS)
BILINGUAL ORAL SPANISH
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
An intensive course in oral Spanish for students who have learned Spanish as a native language. It is intended for students who may read well and have good grammar but need more practice in oral structures. This course will include a brief grammar review and discussion of relevant everyday topics of social concern. Concurrent enrollment in SPAN 221 is recommended, but not required. (CSU, UC)

SPAN 223 (4.0 UNITS)
SPANISH READING AND WRITING
Term Hours: 72 Lec, 0 Lab
Letter Grade or Credit/No Credit
Recommended Preparation: SPAN 210 or SPAN 221.
This course is designed to develop reading and writing skills for the student of Spanish. Emphasis will be placed on the process of writing as preparation for upper division work. In addition, the student will review grammar, punctuation, and spelling. Selected readings from Chicano, Spanish American, and Spanish literature will be included. (CSU, UC)

SPAN 225 (3.0 UNITS)
INTRODUCTION TO SPANISH AMERICAN LITERATURE
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
Introductory survey of representative movements, authors, and works of Spanish American literature from the Spanish Discovery to the present. Course conducted in Spanish. (CSU, UC)

SPAN 262 (3.0 UNITS)
INTRODUCTION TO CHICANO/A STUDIES
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
This course offers an introduction to Chicano/a studies as an academic discipline, with a focus on the cultural values, social organization, urbanization patterns of the Chicano/a in the U.S., as well as their struggles in education, politics and legislation. Due to the nature of the subject, students will be exposed to some Spanish phrases, words, and expressions. (Same as HUM 262) (CSU, UC)

SPEECH

SPCH 100 (3.0 UNITS)
ORAL COMMUNICATION
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: ENGL 099 (Formerly ENGL 100) or higher.
Training in the fundamental processes involved in oral communication with emphasis on organizing material, outlining, constructing, and delivering various forms of speeches. (CSU, UC)

SPCH 110 (3.0 UNITS)
PUBLIC SPEAKING
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: SPCH 100.
A continuation of SPCH 100 with particular emphasis on organization and delivery, and study in the areas of parliamentary procedure, debate, discussion, and oral reading. (CSU,UC)

SPCH 120 (3.0 UNITS)
INTERPERSONAL COMMUNICATION
Term Hours: 54 Lec, 0 Lab
Letter Grade only
This course give sstudents an opportunity to learn, apply, and improve the practical principles of interpersonal communication. Emphasis is placed on personal, situational and cultural influences on interaction, with attention given to human perception, interpersonal dynamics, listening, conflict management, verbab and nonverbal symbol systems. (CSU)

SPCH 180 (3.0 UNITS)
ARGUMENTATION AND DEBATE
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Recommended Preparation: SPCH 100.
An introduction to debate, with emphasis on the creation and refutation of arguments concerning current social, political, and legal issues. (CSU, UC)

THEATRE ARTS

THEA 100 (3.0 UNITS)
INTRODUCTION TO THEATRE
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introduction to the art of theatre to include the nature of theatrical presentation, elements of dramatic structure, and the contributions of the playwright, actor, director, designer, technician, and audience. (CSU, UC)

THEA 120 (3.0 UNITS)
FUNDAMENTALS OF ACTING
Term Hours: 54 Lec, 0 Lab
Letter Grade only
An introduction to the interpretation of drama through the art of the actor. Development of individual insights, skills, and disciplines in the presentation of the dramatic materials to an audience. (CSU, UC)

THEA 121 (3.0 UNITS)
INTERMEDIATE ACTING
Term Hours: 0 Lec, 108 Lab
Letter Grade only
Recommended Preparation: THEA 120.
A continuation of THEA 120 with further emphasis on fundamental acting skills. Laboratory hours to be arranged. Maximum credit six units. (CSU, UC)

THEA 180 (1.0 UNIT)
REHEARSAL AND PERFORMANCE
Term Hours: 0 Lec, 36 Lab
Letter Grade only
Enrollment contingent upon participation in campus major dramatic production. Maximum credit one unit per semester for four semesters. Hours to be arranged. Maximum credit four units. (CSU, UC)

WATER TREATMENT TECHNOLOGY

WT 110 (4.0 UNITS)
WATER TREATMENT PLANT OPERATOR I
Term Hours: 72 Lec, 0 Lab
Letter Grade only
This course will provide information needed to operate a basic freshwater treatment plant as efficiently as possible. Course will consist of water sources and treatment, coagulation and flocculation, sedimentation, filtration, disinfection, corrosion control, taste and odor control, laboratory procedures, and plant operation math. (CSU)

WT 120 (3.0 UNITS)
COMPUTATIONAL PROCEDURES FOR TREATMENT PLANT OPERATOR I
Term Hours: 54 Lec, 0 Lab
Letter Grade or Credit/No Credit
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 calculation of treatment plant problems, fractions, decimals, percentages, ratios, proportions, averages, areas, volumes, metric system conversions, and estimation. (CSU)

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)

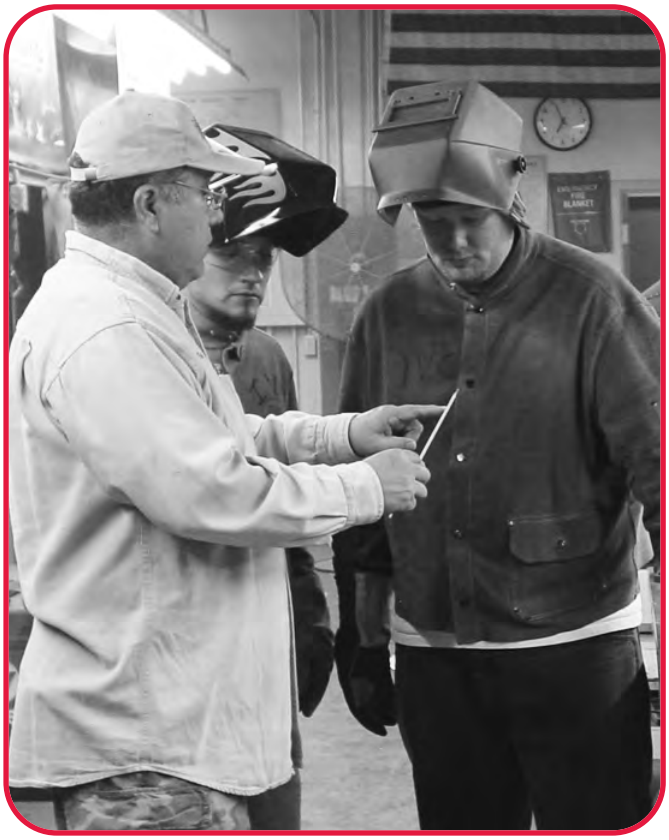
WT 220 (3.0 UNITS)
COMPUTATIONAL PROCEDURES FOR TREATMENT PLANT OPERATOR II
Term Hours: 54 Lec, 0 Lab
Letter Grade only
Prerequisite: WT 120.
This course is designed to give water and wastewater treatment operators a general knowledge of basic mathematics as applied to treatment plant operations. This 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)

WELDING

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 fitting along with heat input are emphasized throughout the course. Students will be required to demonstrate safe welding equipment setup, pipe welding in a 6G, 5G and 2G fixed position. (CSU)

WELD 105 (3.0 UNITS)
FLUX CORE ARC WELDING TECHNIQUES
Term Hours: 36 Lec, 72 Lab
Letter Grade only
Recommended Preparation: WELD 100 (formerly WELD 130.)
Complete study course in Flux Core Arc Welding process and safety. The course is created to prepare the student for entry welding performance test in manufacturing, fabrication, structural, and shipyard industries. Student will practice welding to build skills in FCAW process. Safety, equipment setup, trouble-shooting, and proper use of measuring tools will be complementing this course. (CSU)

WORK EXPERIENCE

WE 201 (1.0 UNIT)
EMPLOYMENT READINESS
Term Hours: 18 Lec, 0 Lab
Letter Grade or Credit/No Credit
A course that may be taken as a stand-alone or as a companion course related to WE 210 or WE 220. Skills development in the areas of job search, employer contact, résumé writing, applications and cover letter, interviewing techniques, appropriate dress, job-holding practices and on-site learning objectives. A review of factors relating to or contributing to job success, including motivation, attitude, human relations, leadership, personal, as well as, group relationships, and behavior. May be repeated for a total of four units. (CSU)

WE 210 (1.0 UNIT)
GENERAL WORK EXPERIENCE
Term Hours: 0 Lec, 63 Lab
Letter Grade or Credit/No Credit
Corequisite: Must be taken in conjunction with WE 201.
A sequence of on-the-job learning experiences designed to assist the student in acquiring desirable work habits, attitudes and career awareness. Current employment for volunteer/unpaid experience need not be related to the students' educational goal. One unit of credit is earned for each 60 hours of volunteer/unpaid work or 75 hours of paid work, with a maximum of three units per session, students must complete one other course in addition to Work Experience. May be repeated a maximum of three times for a maximum of six units. (CSU)

WE 220 (1.0 UNIT)
INTERNSHIP
Term Hours: 0 Lec, 63 Lab
Letter Grade or Credit/No Credit
Corequisite: Must be taken in conjunction with WE 201.
A course that is supervised employment extending classroom-based occupational learning at an on-the-job learning site relating to the students' educational or occupational (major or career) goals. One unit of credit is earned for each 60 hours (3.8 to 15 hours a week) of volunteer/unpaid work or 75 hours (4.7 to 18.8 hours a week) of paid work, with a maximum of 4 units per semester. During a regular semester, students must complete a minimum of 7 units, including Internship. During the summer session, students must complete one other course in addition to Internship. Maximum credit sixteen units. (CSU)

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 technical related and supplemented instruction (RSI) directly associated with the particular trade or industry. The OJT is co-ordinated through the Imperial Irrigation District (IID) and the RSI is provided by Imperial Valley College.

To be eligible to participate in any of the apprenticeship training programs, an individual must be an employee of the IID. Applicants for these apprenticeship programs are directed to the IID located at 333 E. Barioni Blvd, Imperial, California 92251, telephone (760) 482-9640. Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices. Majors and certificates are available for all of the Apprenticeship programs identified below. All required courses for the major and certificate must be completed with a grade of "C" or better.

The ELTT (101-104) courses are open to apprentices and non-apprentices, see Electrical Trades listing in courses section page 67. While completion of the ELTT courses does not require nor assure employment with the IID, it does place an individual in a better position to seek employment.

APPRENTICESHIP – ELECTRICIAN	APPRENTICESHIP – GENERATION MECHANIC	APPRENTICESHIP – METER TECHNICIAN	APPRENTICESHIP – POWER LINEMAN	APPRENTICESHIP – RELAYS TECHNICIAN	APPRENTICESHIP – SCADA/ TELECOMMUNICATIONS TECHNICIAN	APPRENTICESHIP – SUBSTATION-ELECTRICIAN
ELTT 101	ELTT 101	ELTT 101	ELTT 101	ELTT 101	ELTT 101	ELTT 101
ELTT 102	ELTT 102	ELTT 102	ELTT 102	ELTT 102	ELTT 102	ELTT 102
ELTT 103	ELTT 103	ELTT 103	ELTT 103	ELTT 103	ELTT 103	ELTT 103
ELTT 104	ELTT 104	ELTT 104	ELTT 104	ELTT 104	ELTT 104	ELTT 104
APEL 105	APGN 105	APMT 105	APLN 105	APRL 105	APSC 105	APSB 105
APEL 106	APGN 106	APMT 106	APLN 106	APRL 106	APSC 106	APSB 106
APEL 107	APGN 107	APMT 107	APLN 107	APRL 107	APSC 107	APSB 107
APEL 108	APGN 108	APMT 108	APLN 108	APRL 108	APSC 108	APSB 108

APPRENTICESHIP-ELECTRICIAN

APEL 105 (4.0 UNITS)
ELECTRICIAN V
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite(s): ELTT 104 - Electrical Trades IV.
Instruction in print reading, removal and 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) and implementation of applied calculations. (Nontransferable, AA/AS degree only)

APEL 106 (4.0 UNITS)
ELECTRICIAN VI
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite: APEL 105 - Electrician V.
Comprehensive review in AC theory and advanced training in control equipment, (i.e., capacitors, reactors, and circuit breakers), review of high voltage terminations, relays and transformers. Implementation and review of safety regulations applicable to switchyards, substations and confined spaces. (Nontransferable, AA/AS degree only)

APEL 107 (4.0 UNITS)
ELECTRICIAN VII
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite: APEL 106 - Electrician VI.
Instruction in Right-of-Ways/Easements, Flash outs and Electrical Burns. Training in a broad scope of areas usual to the power utility industry (i.e., meters, cable fault location, etc.). Review of various safety issues appropriate to the power utility industry. (Nontransferable, AA/AS degree only)

APEL 108 (4.0 UNITS)
ELECTRICIAN VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite: APEL 107 - Electrician VII.
Comprehensive review of practical electrical wiring including residential and commercial wiring systems. Review of construction safety and the use of test equipment, small electrical devices and transformers. Advanced apprentice training in resistance and wire size and Title VIII Underground and overhead work. Preparation for the National Electrical Code Journey Exam. (Nontransferable, AA/AS degree only)

APPRENTICESHIP-GENERATION MECHANIC

APGN 105 (4.0 UNITS)
GENERATION MECHANIC V
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite: ELTT 104 - Electrical Traces IV.
Comprehensive review in AC theory, application and generation line systems augmented with an introduction of hydro electric power, generation, dispatching, hydro power operations and related construction standards. (Nontransferable, AA/AS degree only)

APGN 106 (4.0 UNITS)
Generation Mechanic VI
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite: APGN 105 - Generation Mechanic V.
Advanced review in AC theory, application and generation line systems augmented with an introduction of hydro electric power, generation, dispatching, hydro power operations and related construction standards. (Nontransferable, AA/AS degree only)

APGN 107 (4.0 UNITS)
GENERATION MECHANIC VII
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisites: APGN 106 - Generation Mechanic VI.
Advanced theory in the use of rules and regulations, specialized equipment, repair and maintenance of hydro-generators, safety practices, local and state requirements, and control systems. (Nontransferable, AA/As degree only)

APGN 108 (4.0 UNITS)
GENERATION MECHANIC VII
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite: APGN 107 - Generation Mechanic VII.
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 usage of gloves and hot sticks). Preparation for the National Electrical Code Journey Exam. (Nontransferable, AA/AS degree only)

APPRENTICESHIP-METER TECHNICIAN

APMT 105 (4.0 UNITS)
METER TECHNICIAN V
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite: ELTT 104 - Electrical Trades IV.
Comprehensive review in AC theory and basic wiring for meter installations, working on de-energized lines, rigging for high voltage work, troubleshooting and testing for meter failures. (Nontransferable, AA/AS degree only)

APMT 106 (4.0 UNITS)
METER TECHNICIAN VI
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite: APMT 105 - Meter Technician V.
The basic principles in the construction, operation, maintenance procedures and print reading associated with substations and switchyards. (Nontransferable, AA/AS degree only)

APMT 107 (4.0 UNITS)
METER TECHNICIAN VII
Term Hours: 72 Lec, 54 Lab
Letter Grade only
Prerequisites: APMT 106 - Meter Technician VI.
Theory and practicum in the procedures for completing commercial and residential connections, extensive overview of watthour installations, and the advanced review of electrical test equipment. (Nontransferable, AA/AS degree only)

APMT 108 (4.0 UNITS)
METER TECHNICIAN VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite: APMT 107 - Meter Technician VII.
Advanced theory in the use of specialized test equipment, repair and maintenance of motors, generators and pumps, safety practices, local and state requirements, and electrical mathematics. (Nontransferable, AA/AS degree only)

APPRENTICESHIP-POWER LINEMAN

APLN 105 (4.0 UNITS)
POWER LINEMAN 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, rigging for high voltage work, hot transmission line repair, using temporary structures, and usage of gloves and hot sticks). (Nontransferable, AA/AS degree only)

APLN 106 (4.0 UNITS)
POWER LINEMAN VI
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite: APLN 105 - Power Lineman V.
The basic principles in the construction, operation, and maintenance procedures associated with substations and switchyards. (Nontransferable, AA/AS degree only)

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.

APPRENTICESHIP-RELAYS TECHNICIAN

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. (Nontransferable, 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)

APPRENTICESHIP-SCADA/TELE TECHNICIAN

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.
Comprehensive review of industry standards relative to constructing microwave and telecommunication systems. Review of construction safety and the use of test equipment, small electrical devices and transformers. Advanced apprentice training in resistance and wire size and Title VIII Underground and overhead work. (Nontransferable, AA/AS degree only)

APPRENTICESHIP-SUBSTATION-ELECTRICIAN

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 and state construction requirements. (Nontransferable, AA/AS degree only)

MAJORS

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.

Note: Effective for all students admitted to a community college for Fall 2009 or thereafter, each course counted toward the unit requirement for the major or area of emphasis must be completed with a grade of "C" or better.

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.

ADMINISTRATION OF 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 Law	3
AJ 104	Legal Aspects of Evidence	3
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 Operations	3
AJ 122	Criminal Investigation	3
AJ 123	Juvenile Control	3
AJ/SOC 124	Criminology	3
AJ 141	Arrest and Firearms	3.5
CSI 100	Introduction to Corrections	3
CSI 104	Concepts of Probation & Parole	3

III. Recommended as electives (do **NOT** fulfill major requirements)

AJ 142	Reserve Officer 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 Organization	3
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
AG 120	Soil Science	3
AG 138	Computer Applications in Agriculture	3
AG 140	Principles of Plant Science	4
AG 160	Food & Fiber in a Changing World	3
AG 170	Principles of Entomology	3
BUS 126	Business and the Legal Environment	3
BUS 210	Principles of Financial Accounting	4
BUS 220	Principles of Managerial Accounting	4
CHEM 100	Introduction to Chemistry	4
CIS 101	Intro to Information Systems	3
ECON 102	Intro to Microeconomics	3

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 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 MAJOR MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER.

Thirty (30) units required for the major

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 Measures	2
ACR 106	Air Conditioning Ventilation Duct Systems	3
BLDC 130	Carpentry Layout & Framing	4
EWIR 110	Electrical Principles	4
WELD 100	Welding Technology	5

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 MAJOR MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER.

Thirty-six (36) units required for the major

I. Required courses for the major (27 units)

ADS 101	Alcoholism: Intervention, Treatment, & Recovery	3
ADS 110	Physiological Effects of Alcohol & Drugs	3
ADS/PSY 120	Intro to Counseling	3
ADS/PSY 130	Group Leadership & Group Process	3
ADS 200	Family Counseling Approach to Alcohol & Drug Abuse	3
ADS/PSY 210	Crisis Intervention & Referral Techniques	3
ADS/PSY 220	Practicum	3
ADS/PSY 221	Practicum	3
ADS 230	Alcohol & Drug Prevention & Education	3

II. Maximum of three (3) units selected from:

ADS 176	Sex and Gambling Addiction	1
ADS 177	Anger Management	1
ADS 178	Life Skills	1

Additional Courses will be added to this section - see class schedule!

III. Minimum of six (6) units selected from:

ADS/SOC 150	Sociology of Minority Groups	3
PSY 101	General Psychology	3
PSY 144	The Psychology of Interpersonal Relationships	3
PSY 204	Develop Psych: Concept to Death	3
PSY 208	Abnormal Psychology	3
SW 220	Introduction to Social Work	3
SOC 101	Introduction to Sociology	3

ANTHROPOLOGY

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

Eighteen (18) units required for the major

I. Anthropology – The following four courses are required for the major.

ANTH 100	Physical Anthropology	3
ANTH 102	Cultural Anthropology	3
ANTH/AIS 106	Indians of North America	3
ANTH 120	Introduction to Archaeology	3

II. Natural Science – Student must choose one course from the following science courses (3.0 to 4.0 units)

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

ART

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

Twenty-four (27) units required for the major

I. Required courses for the major

ART 100	History and Appreciation of Art	3
ART 102	History and Appreciation of Art	3
ART 110	Design	3
ART 112	Design	
ART 120*	Drawing	3
ART 122	Drawing	3

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

ART 104	History and Appreciation of Modern Art	3
ART 106	Women Artists	3
ART 112	Design	3
ART 124	Painting	3
ART 126	Painting	3
ART 128	Watercolor Painting	3
ART 130	Life Drawing	3
ART 140	Ceramics	3
ART 150	Sculpture-Beginning	3
ART 160	Graphic Design	3
ART 170	Photography - Beginning	3-6
ART 220	Drawing	3
ART 222	Drawing	3
ART 224	Painting	3
ART 226	Painting	3
ART 228	Exploration of Painting Techniques	2
ART 230	Life Drawing	3-6
ART 240	Ceramics	3
ART 242	Ceramics - Technical	3
ART 262	Gallery Display	3
ART 270	Photography - Intermediate	3
ART 280	Career Preparation in the Visual Arts	3
ART 282	Art Fund for Educators	3

*Should be taken first semester, if possible, to allow for sequence of ART 122, ART 124, and ART 130.

AUTOMOTIVE COLLISION REPAIR

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

Thirty-one (31) units required for the major

I. Required courses for the major

AU B 120	Automotive Collision Repairs	5
AU B 140	Frame/Undercarriage Repair	5
AU B 220	Estimating and Collision Repair	5
AU B 240	Custom Refinishing and Shop Mgt	3
AU T 125	Automotive Brakes	4
AU T 155	Suspension and Wheel Alignment	4
WELD 100	Welding Technology (formerly WELD 130)	5

II. Acceptable courses for the major
(4 units from the following list may be accepted as major credit if the equivalent of AU B 120 has been completed in high school (two years of high school auto body).

AU T 110	Engine Technology or equivalent	4
WE 201	Cooperative Work Experience	1-4
WE 210	General Work Experience	1-3

AUTOMOTIVE TECHNOLOGY

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

Thirty-nine (39) units required for the major

I. Required courses for the major

AU T 110	Engine Technology	4
AU T 125	Automotive Brakes	4
AU T 130	Automotive Electronics I	3
AU T 150	Automatic Electronics II	4
AU T 155	Suspension and Wheel Alignment	4
AU T 160	Engine Performance Tune-Up	3
AU T 170	Engine Diagnosis and Repair	3
AU T 180	Manual Trans and Power Trains	4
AU T 210	Automotive Air Conditioning	3
AU T 220	Mechanical Automatic Transmissions	4
AU T 230	Emissions Control and Computer Systems	3

II. Recommended courses for the major (**NOT** required)

CIS 100	Computer Literacy	1
OR		
CIS 110	Windows Operating Systems	1
MATH 070	Basic Mathematics	3
WELD 100	Welding Technology (formerly WELD 130)	5
WE 201	Employment Readiness Class	1
WE 220	Internship	1-4

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.

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

I. Required courses for the major

Anthropology

ANTH 100	Physical Anthropology	3
ANTH 102	Cultural Anthropology	3

Psychology

DSPS/EDUC240	Understanding Exceptional Students	3
MATH 119	Elementary Statistics	4
PSY 101	Introduction to Psychology	3
PSY/DEV 104	Child Growth and Development	3
PSY/ADS 120	Introduction to Counseling	3
PSY 142	Psychology of Adjustment	3
PSY 144	The Psychology of InterpersonalRelationships	3
PSY 146	Psychology of Human Sexuality	3
PSY 200	Biological Psychology	3
PSY 202	Learning	3
PSY 204	Developmental Psychology: Conception to Death	3
PSY/SOC 206	Social Psychology	3
PSY 208	Abnormal Psychology	3
PSY 212	Research Methods in Psychology	3
PSY/ADS 220		
OR		
PSY/ADS 221	Practicum	3

Sociology

SOC 101	Introductory Sociology	3
SOC 102	Contemp Social Problems	3
SOC 110	Marriage and the Family	3
SOC/AJ 124	Criminology	3
SOC/ADS 150	Sociology of Minority Groups	3
SOC/PSY 206	Social Psychology	3

II. Recommended as electives (do **NOT** fulfill major requirements)

BIOL 100	Prin of Biological Science	4
BIOL 122	General Zoology II	4
CDEV 103	Child, Family, and Community	3

BUSINESS ACCOUNTING TECHNICIAN

This program provides students with entry level competencies for employment as a bookkeeper or other financial clerk. Accounting technicians can be found in settings such as banks and offices. Students who intend to pursue an accounting degree at a four-year school should follow the Business Administration major.

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

BUS 164	Office Tech & Procedures I	3
BUS 167	Machine Calculation	1
BUS 169	Records Management	2
BUS 172	Office Tech & Procedures II	3
BUS 210 **	Principles of Financial Accounting	4
CIS 101	Intro to Information Systems	3
CIS 108	Computer Accounting	3
CIS 124	Excel I	1
CIS 125	Excel II	1
WE 201 *	Employment Readiness	1
WE 220 *	Internship	1

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

BUS 010	Practical Accounting	3
BUS 061	Business English	3
BUS 124	Intro to Business	3
BUS 220	Prin of Managerial Accounting	4

III. Required skill level for the major

Keyboarding skill level 40 nwpm. (BUS 156, Keyboarding Speed & Accuracy, may be helpful in obtaining this speed level.)

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

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

BUSINESS ADMINISTRATION

The Business Administration program prepares students in lower division courses required for advanced degrees in areas such as International Business, Management, Marketing, and Accounting. 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 MAJOR MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER.

Twenty units (20) required for the major

I. Required courses for the major

BUS 126	Bus & the Legal Environment	3
BUS 210	Prin of Financial Accounting	4
BUS 220	Prin of Managerial Accounting	4
ECON 101	Intro to Microeconomics	3
ECON 102	Intro to Macroeconomics	3

II. Acceptable courses for the major

(select a minimum of one course)

BUS 260	Business Communications	3
CIS 101	Intro to Information Systems	3
CIS 108	Computer Accounting	3
MATH 119	Elementary Statistics	4
MATH 122	Finite Mathematics	3
MATH 140	Trigonometry	3
MATH 150	College Algebra	3
MATH 170	Introductory Calculus with Applications	4
MATH 190	Pre-Calculus	5
MATH 192	Calculus I	5

BUSINESS ADMINISTRATIVE ASSISTANT

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 nwpm. (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 FINANCIAL SERVICES

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

Twenty-six (26) units required for the major

I. Required courses for the major

BUS 124	Introduction of Business	3
BUS 126	Bus & the Legal Environment	3
BUS/AG 132	Business Management	3
BUS 210	Prin of Financial Accounting	4
BUS 260	Business Communications	3
CIS 101	Intro to Information Systems	3
CIS 102	Computer Applications Lab	1
ECON 102	Intro to Macroeconomics	3

II. Acceptable courses for the major

(minimum of three units from the following courses)

BUS 010	Practical Accounting	3
BUS 060	Essentials of Workplace Communication	3
BUS 148	Personal Finance	3
BUS 220	Prin of Managerial Accounting	4
CIS 108	Computer Accounting	3
CIS 124	Excel I	1
CIS 125*	Excel II	1
ECON 101	Intro to Microeconomics	3
WE 201	Employment Readiness	3
WE 220	Internship	1

* Highly recommended for this major

BUSINESS MANAGEMENT

The Business Management program provides students with education and training needed for entry level supervisory and management 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.

Twenty-six (26) units required for the major

I. Required courses for the major

BUS 126	Bus & the Legal Environment	3
BUS/AG 132	Business Management	3
BUS 210	Prin of Financial Accounting	4
BUS 260	Business Communications	3
CIS 101	Intro to Information Systems	3
CIS 102	Computer Applications Lab	1

II. Acceptable courses for the major

(minimum of nine units from the following courses)

BUS 010	Practical Accounting	3
BUS 060	Essentials in Workplace Communication	3
BUS 124	Intro to Business	3
BUS 134	Management Concepts of Supervision	3
BUS 136	Human Relations in Management	3
BUS 140	Business Retailing	3
BUS 142	Practical Salesmanship	3
BUS 144	Principles of Marketing	3
BUS 148	Personal Finance	3
BUS 220	Prin of Managerial Accounting	4
CIS 108	Computer Accounting	3
CIS 124	Excel I	1
CIS 125	Excel II	1
ECON 101	Intro to Micro Economics	3
ECON 102	Intro to Macro Economics	3
WE 201	Employment Readiness	1
WE 220	Internship	1

BUSINESS MARKETING

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

Twenty-nine (26) units required for the major

I. Required courses for the major

BUS 126	Business and the Legal Environment	3
BUS/AG 132	Business Management	3
BUS 144	Principles of Marketing	3
BUS 210	Principles of Financial Accounting	4
BUS 260	Business Communications	3
CIS 101	Intro to Information Systems	3
CIS 102	Computer Applications Lab	1

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

BUS 010	Practical Accounting	3
BUS 060	Essentials in Workplace Communication	3
BUS 124	Intro to Business	3
BUS 134	Management Concepts of Supervision	3
BUS 136	Human Relations in Management	3
BUS 140	Business Retailing	3
BUS 142	Practical Salesmanship	3
BUS 148	Personal Finance	3
BUS 220	Prin of Managerial Accounting	4
CIS 108	Computer Accounting	3
CIS 124	Excel I	1
CIS 125	Excel II	1
ECON 101	Intro to Micro Economics	3
ECON 102	Intro to Macro Economics	3
WE 201	Employment Readiness	1
WE 220	Internship	1

*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 in preparation for BUS 210.

BUSINESS OFFICE TECHNICIAN

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.

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

Twenty-eight (28) units and skill level required for the major

I. Required courses for the major

ENGL 060	Practical English for the Workplace	3
BUS 060	Essential in Workplace Communication	3
BUS 061	Business English	3
BUS 164	Office Tech & Procedures I	3
BUS 167	Machine Calculation	1
BUS 169	Records Management	2
BUS 172	Office Tech & Procedures II	3
BUS 176	Office Transcription	1
BUS 180	Microsoft Office for the Workplace	4
BUS 260	Business Communications	3
WE 201 *	Employment Readiness	1
WE 220 *	Internship	1

II. Required skill level for the major
Keyboarding skill level 40 nwpm. (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.

NOTE: ENGL 060 is recommended before BUS 060.

NOTE: BUS 060 is recommended before BUS 061.

CHILD DEVELOPMENT

The Child Development major is designed for students who are interested in working with young children as preschool teachers, daycare providers, and/or other child development careers.

The Child Development major provides students with a background of knowledge and skills in child growth and development. This major meets the requirements for the Child Development Permit Matrix: Teacher Permit.

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

A minimum of twenty-nine (29) units is required for the major

I. Required courses for the major

CDEV 100	Principles and Practices of Teaching Young Children	3
CDEV 101	Health, Safety and Nutrition	3
CDEV 102	First Aid and CPR for Teachers of Young Children	1
CDEV 103	Children, Family and Community	3
CDEV/PSY 104	Child Growth and Development	3
CDEV 105	Introduction to Curriculum	3
CDEV 106	Observation and Assessment	3
CDEV 107	Teaching in a Diverse Society	3
CDEV 200	Prcticum-Field Experience	3

II. Select four (4) to five (5) units from the following

CDEV 120	Language and Literature for Early Childhood	2
CDEV 121	Art for Young Children	2
CDEV 122	Science and Math for Early Childhood	2
CDEV 123	Music and Movement for Early Childhood	2
CDEV 124	Creative Cooking for Children	2
CDEV 125	Multilingual and Multicutural Curriculum for Young Children	3

III. Recommended General Education courses

ENGL 101	Reading & Composition	3
ENGL 201	Advanced Composition	3
SPCH 100	Oral Communication	3
MATH 119	Elementary Statistics	4

PLEASE SEE A COUNSELOR FOR ASSISTANCE WITH THIS PROGRAM OF STUDY.

COMMUNICATION ARTS

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

Twenty-seven (27) units required for the major

I. Required courses for this major

ENGL 250	Creative Writing	3
JRN 100	Introduction of Journalism	3
SPCH 100	Oral Communications	3
SPCH 110	Public Speaking	3
SPCH 120	Interpersonal Communication	3
SPCH 180	Argumentation and Debate	3

II. Acceptable courses for the major

(minimum of nine (9) units from the following courses)

BUS 260	Business Communications	3
AJ/CSI 120	Public Safety Communications	3
ENGL 201	Advanced Composition	3
JRN 101	Multimedia News Writing & Reporting	3
JRN 102	Newspaper Production	3
PSY 130	Group Leadership and Group Process	3
PSY 144	Psych. of Interpersonal Relationships	3
THEA 100	Introduction to Theatre	3
THEA 120	Fundamentals of Acting	3

COMPUTER INFORMATION SYSTEMS

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 MAJOR MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER.

Twenty (20) units required for the major

I. Required courses for the major

BUS 210	Prin of Financial Accounting	4
CIS 101	Intro to Information Systems	3

Select six (6) programming units

CIS 202	Programming in Visual Basic	3
CIS 210	Programming in C++	3
MATH 130	Programming in FORTRAN	3

II. Select at least seven (7) elective units

(programming courses taken above may not be used to satisfy this requirement):

BUS 152	Basic Keyboarding	1
OR		
BUS 154	Beg Keyboarding and Doc Formatting	3
OR		
BUS 156	Keyboarding: Speed and Accuracy	3
CIS 050	Online Learning - An Orientation	0.5
CIS 102	Computer Applications Lab-1 Unit Max	1
CIS 104	Intro to Telecommunications	3
CIS 106	PC Maintenance & Repair	3
CIS 107	Computer Networking	3
CIS 108	Computer Accounting	3
CIS 110	Windows Operating System	1
CIS 121	Microsoft Word II	1
CIS 125	Excel II	1
CIS 128	Access	1
CIS 130	Power Point I	1
CIS 131	Power Point II	1
CIS 137	Dreamweaver	3
CIS 149	Photoshop	3
CIS 202	Programming in Visual Basic	3
CIS 210	Programming in C++	3
MATH 130	Programming in FORTRAN	3
WE 201	Employment Readiness	1
WE 220	Internship	1-4

COMPUTER SCIENCE

PENDING CALIFORNIA COMMUNITY COLLEGE SYSTEM OFFICE APPROVAL

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

Thirty-One (31) units required for the major

I. Required courses for the major

CS 230	Interm Object Oriented Programming Using Java	4
CS 280	Assembly Language and Machine Organization	4
MATH 119	Elementary Statistics	4
MATH 192	Calculus I	5
MATH 194	Calculus II	5

II. Select nine (9) units from the following courses

BIOL 180	General Biology: Molecules, Cells, & Genetics	4
BIOL 182	General Biology: Principles of Organismal Biology	4
CHEM 200	General Inorganic Chemistry I	5
CHEM 202	General Inorganic Chemistry II	5
CS 170	Introduction to Unix/Linux	3
MATH 230	Introduction to Linear Algebra with Applications	3
MATH 240	Discrete Mathematics	3
PHYS 200	General Physics I	5
PHYS 202	General Physics II	5
PHYS 204	General Physics III	5

Students who intend to pursue a Computer Science bachelor's degree should see a counselor to determine any additional requirements necessary for transfer to their institution of choice.

CORRECTIONAL SCIENCE

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

CSI 100	Intro to Corrections	3
CSI/AJ 102	Concepts of Criminal Law	3
CSI 106	Correctional Interviewing & Counseling	3
CSI 108	Control & Supervision of Inmates	3
CSI/AJ 120	Public Safety Communications	3

II. Select nine (9) units from the following courses

AJ 080	Security Guard (Arrest)	0.5
AJ 100	Intro to Admin of Justice	3
AJ 110	Police Community Relations	3
AJ 122	Criminal Investigation	3
AJ 123	Juvenile Control	3
AJ 141	Arrest & Firearms	3.5
CSI 104	Concepts of Probation & Parole	3

III. Recommended courses (do **NOT** fulfill major requirements).

ENGL 101	Reading & Composition	3
PSY 101	Introduction to Psychology	3
SPAN 100	Elementary Spanish	3
CIS 101	Introduction to Information Systems	3
PE 100	Lifetime Exercise Science	2
OR		
PE 101	Exercise Lab	1
SPCH 100	Oral Communication	3

DISABILITY SERVICES TECHNICIAN

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

Nineteen to twenty (19-20) units required for the major

I. Required courses for the major

DSPS/EDUC 240	Understanding Excep Students	3
DSPS/EDUC 242	Practicum Experience to Work with Disabled Persons	2
PSY 101	Introduction to Psychology	3

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

AHP 060	Health Assistant	5
AMSL 100	American Sign Language 1	4
AMSL 102	American Sign Language 2	4
AMSL 200	American Sign Language 3	3
AMSL 202	American Sign Language 4	3
AMSL 204	American Sign Language 5	3
AMSL 210	Interpreting Amer Sign Lang 1	3
AMSL 212	Interpreting Amer Sign Lang 2	3

III. A minimum of two (2) courses from the following (5 Units)

ADS/PSY 120	Intro to Counseling	3
ADS/PSY 210	Crisis Intervention and Referral Tech	3
AMSL 104	Fingerspelling and Numbers	3
AMSL 110	Introduction to Deaf Culture	3
AMSL 112	Interpreting as a Profession	3
CDEV/PSY 104	Child Growth and Development	3
DSPS/EDUC 242	Practicum Experience to Work with Disabled Persons	2
DSPS/EDUC 250	Working with Autistic Children	2
PE 224	PE for Special Olympics	3
PSY 142	Psych of Adjustment	3
PSY/SOC 206	Social Psychology	4
SOC 101	Introductory Sociology	3
SOC 102	Contemp Social Problems	3
SOC 220	Intro to Social Work	3

EMERGENCY MEDICAL SERVICES

The Associate's Degree in emergency medical services prepares the student for licensure as a Paramedic (EMT-P) and to care for the sick and injured at the scene of an emergency and/or during transport to a healthcare facility. Acceptance into the program requires successful completion of the application process, approval by the EMS Faculty Coordinator and the EMS Medical Director, current certification as an EMT I or EMT II with at least 1 year experience, current American Heart Association BLS/CPR certification, and for the applicant to be at least 18 years of age prior to any clinical experience. Contact the Nursing and Allied Health Division for more specifics.

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

Forty-one and one-half (41.5) units required for this major

I. Prerequisites for the major

BIOL 090	Anatomy & Physiology for Health Occupations	3
EMT 105	Emer. Medical Technician I (or state certification)	7.5

II. Required courses for the major

EMTP 200	EMT - Paramedic Didactic 1	9
EMTP 210	EMT - Paramedic Didactic 2	9
EMTP 215	EMT - Paramedic Didactic 3	5
EMTP 225	EMT - Paramedic Clinical 1	3.5
EMTP 235	EMT - Paramedic Field 1	6.5
EMTP 245	EMT - Paramedic Field 2	5.5

III. Select one of the following acceptable courses for the major

BUS 132	Business Management	3
BUS 136	Human Relations in Management	3

ENGLISH

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 LiteratureI-II	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/HUM 226	Introduction to Mythology	3
ENGL 228	Introduction to the Bible as Literature	3
ENGL/HUM 230	Introduction to Film Hist & Criticism	3
ENGL 250	Creative Writing	3
ENGL 270	Intro to Linguistics	3

*ENGL 220 or 221 or 222 or 223 or 224 or 225 if not used for required courses under I above.

FIRE TECHNOLOGY

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

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

Thirty-three (33) units are required for this major

I. Required courses for the major

FIRE 100	Fire Protection Organization	3
FIRE 101	Fire Prevention Technology	3
FIRE 102	Fire Protec Equip & Systems	3
FIRE 103	Building Construction for Fire Protection	3
FIRE 104	Fire Behavior and Combustion	3
FIRE 108	Fire & Emergency Services Safety & Survival	3

II. Select 15 units from the following acceptable courses for the major

AJ/CSI 120*	Report Writing for Admin of Just	3
CIS 101	Introduction to Information Systems	3
FIRE/EMT 105*	Emergency Medical Technician I	7.5
FIRE 109*	Haz Materials for the 1st Responder	2
FIRE 220**	Fire Apparatus 1A	2.5
FIRE 221**	Fire Apparatus 1B	2.5
FIRE 222**	Fire Investigation 1A	2.5
FIRE 223**	Fire Investigation 1B	2.5
FIRE 224**	Fire Management 1	2.5
FIRE 225**	Fire Prevention 1A	2.5
FIRE 226**	Fire Prevention 1B	2.5
FIRE 227**	Fire Instructor 1A	2.5
FIRE 228**	Fire Instruction 1B	2.5
FIRE 229**	Fire Command 1A	2.5
FIRE 230**	Fire Command 1B	2.5
FIRE 231**	Incident Command System (ICS 300)	1.5
FIRE 232**	Public Education 1	2.5
FIRE 233**	Fire Command 1C	2.5
FIRE 234**	Fire Prevention 1C	2.5
FIRE 235**	Fire Instructor 2A	2.5

*Recommended

** Core courses required. Fire Fighter II and/or experience requirements as mandated by State Fire Training Course Information and Required Materials Manual, California Department of Forestry and Fire Protection, May 2008.

FRENCH

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

Twenty-one (21) units required for the major

I. Required courses for the major

FREN 100	Elementary French	5
FREN 110	Elementary French	5
FREN 200	Intermediate French	4
FREN 210	Intermediate French	4

II. Acceptable courses for the major

(select a minimum of one course from the following courses)

FREN 220	Inter French Read & Writ	3
FREN 230	Inter Conversational French	3
FREN 232	Inter Conversational French	3

GENERAL SCIENCE

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

Minimum 18 units required for the major

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

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

ANTH 100	Physical Anthropology	3
BIOL 100	Prin of Biological Science	3
BIOL 180	Gen Biol; Molecules/Cells/Genetics	4
BIOL 182	Gen Biol: Prin of Organismal Biology	4

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-Calculus	5
MATH 192	Calculus I	5
MATH 194	Calculus II	5
MATH 210	Calculus III	5
PHYS 200	General Physics I	5
PHYS 202	General Physics II	5
PHYS 204	General Physics III	5

HISTORY

The Associate in Arts degree in history prepares students to transfer to four-year institutions for continued study in the fields of history or other social sciences. This degree program fulfills the lower division requirements for those intending to major in history at San Diego State University and is typical of requirements at other four-year schools. For specific requirements, transfer students should consult the catalog of the college or university of their choice.

A history major provides useful background for students in such fields as history, education, political science, and law.

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. Core Requirement - 12 Units

HIST 100	Early World History	3
HIST 101	Modern World History	3
HIST 120	United States History to 1877	3
HIST 121	United States History since 1877	3

II. Electives - Select nine (9) units from:

HIST 110	Early Western Civilization	3
HIST 111	Modern Western Civilization	3
HIST/LAS 130	Early Latin America	3
HIST/LAS 131	Modern Latin America	3
HIST/LAS 132	History of Mexico	3
HIST 140	East Asian History	3
HIST 150	Survey of African History	3
HIST 160	Middle Eastern from 600	3
HIST 220	Women in American History	3
HIST 222	History of California	3
HIST 223	History of the American West	3
HIST/LAS 225	Mexican American History	3

III. Capstone - Three (3) units:

HIST 280	Research Topics in History	3

HUMANITIES

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 Course for the major

HUM 100	Intro to the Humanities	3

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

ART 100	History & Appreciation of Art I	3
ART 102	History & Appreciation of Art II	3
ART 104	History & Appreciation of Modern Art	3
ART 106	Women Artists	3
MUS 200	History & Literature of Music I	3
MUS 202	History & Literature of Music II	3

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

ART 100	History & Appreciation of Art I	3
ART 102	History & Appreciation of Art II	3
ART 104	History & Appreciation of Modern Art	3
ART 106	Women Artists	3
ART 110	Design	3
ART 120	Drawing	3
ART 130	Life Drawing	3
ART 140	Ceramics	3
ART 228	Exploration of Paint Tech	2
ART 262	Gallery Display	3
MUS 100	Intro to Music Foundations	3
MUS 102	Intro to Music Lit & Listening	3
MUS 104	Intro to 20th Century Music	3
MUS 110	Beginning Musicianship	2
MUS 120	Beginning Harmony	3
MUS 154	Chamber Singers	1
MUS 156	College-Community Chorus	1
MUS 171	Chamber Orchestra	1
MUS 172	Community Band	1
MUS 175	Instrumental Ensemble	1
MUS 178	Symphony Orchestra	1
MUS 200	History & Literature of Music I	3
PE 114	Dance Theater, Coed	2
PE/HUM 212	The Hist & Apprec of Dance	3

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 PhilosophyII	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
THEA 180	Rehearsal & Performance	1

HUMAN RELATIONS

Areas of emphasis: Community Mental Health Worker, Counseling, School, Social Services Personnel, Employment Counseling, and Supervision.

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

Twenty-four units required for the major

I. Required courses for the major

ADS/PSY 120	Intro to Counseling	3
ADS/PSY 220	OR 221 Practicum	3
PSY 101	Intro to Psychology	3
PSY 142	Psych of Adjustment	3
SOC 101	Introductory Sociology	3

II. With the approval of his/her counselor and the Division Chairperson, the student will select a minimum of 9 units (depending on areas of emphasis) from the following courses. It is considered advisable for students in certain areas of emphasis to take more than 9 units from the list below.

ADS/SOC 150	Sociology of Minority Groups	3
ADS/PSY 210	Crisis Intervention & Referral Tech	3
ANTH 102	Cultural Anthropology	3
BUS 134	Mgmt Concepts of Supervision	3
BUS 136	Human Relations in Mgmt	3
CDEV/PSY 104	Child Growth and Development	3
CIS 101	Intro to Information Systems	3
PD 100	Personal & Career Development	3
MATH 119	Elementary Statistics	4
PSY 144	The Psych of Interpersonal Relationships	3
PSY 200	Biological Psychology	3
PSY 202	Learning	3
PSY 204	Dev Psych: Conception to Death	3
PSY/SOC 206	Social Psychology	3
PSY 208	Abnormal Psychology	3
SOC 102	Contemp Social Problems	3
SOC110	Marriage & the Family	3

JOURNALISM

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

Twenty-one (21) units required for the major

I. Required courses for the major

JRN 100	Introduction to Journalism	3
JRN 101	Multimedia News Writing & Reporting	3
CIS 137	Dreamweaver	3
CIS 149	Photoshop	3

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

ART 160	Graphic Design	3
CIS 155	Flash	3
ENGL 102	Intro to Literature	3
ENGL/HUM 230	Intro to Film Hist & Criticism	3
ENGL 250	Creative Writing	3
JRN 102	Newspaper Production	3
JRN 104	Career Journalism	3
JRN 106	Photojournalism	3
JRN 108	Critical Reasoning and Writing	3
POLS 102	Amer Government & Politics	3
SOC 102	Contemporary Social Problems	3
SPCH 100	Oral Communication	3

LEGAL ASSISTANT

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 MAJOR MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER.

Twenty-seven (27) units required for the major

I. Required courses for the major

BUS 126	Bus & the Legal Environment	3
LEGL 115	Legal Procedures	3
LEGL 116	Law Office Management	3
LEGL 117	Criminal Litigation and Procedures	3
LEGL 119	Civil Proc and Discovery	3
LEGL 120	Corporations	3
LEGL 121	Legal Research	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 to transfer to a university, please see a counselor and work with the catalog or ASSIST website (www.assist.org) for specific transfer requirements.

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

I. Required courses for the degree

A. English Communication and Critical Thinking (6 + 6.5 units)

SPCH 100	Oral Communication	3

Select one course from (minimum 3.0 units)

ENGL 111	Reading IV: Analytical and Critical Reading	3.5
ENGL 201	Advanced Composition	3
PHIL 106	Logic	3
SPCH 180	Argumentation and Debate	3

B. Science and Mathematics (6-7 units)

BIOL 100	Principles of Biological Science	4
OR		
GEOL 110	Earth and Space Science	3
MATH 110	Number Sys in Elem Math	3

C. Arts and Humanities (3 units)

HIST 100	Early World History	3
OR		
MUS 100	Intro to Music Foundations	3

D. Social, Political, and Economic Institutions (3 units)

HIST 120	United States to 1877	3

E. Lifelong Understanding and Self Development (6 units)

PSY 101	Intro to Psychology	3
AND		
CDEV/PSY104	Child Growth and Development	3

LIBERAL STUDIES – SDSU TEACHER PREPARATION OPTION

The Liberal Studies major pertains to requirements at San Diego State University only. The major is designed for students who intend to teach at the elementary level. The goal is to 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, in addition to teaching, if they so choose.

If you are planning to transfer to SDSU (San Diego Campus), check catalog or ASSIST website (www.assist.org) for additional transfer requirements.

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

I. Required courses for the degree

A. English Communication and Critical Thinking (6 + 6.5 units)

SPCH 100	Oral Communication	3
ENGL 101	Reading & Composition	3

Select one course from (minimum 3.0 units)

ENGL 111	Reading IV: Analytical and Critical Reading	3
ENGL 201	Advanced Composition	3
PHIL 106	Logic	3
SPCH 180	Argumentation and Debate	3

Select one course from (minimum 3.0 units)

ENGL 102	Intro to Literature	3
ENGL 222	Survey of World Literature	3
ENGL 223	Survey of World Literature	3

B. History and Social Science (9.0 Units)

HIST 100	Early World History	3
HIST 120	United States to 1877	3
POLS 102	Amer Government & Politics	3

C. Mathematics (7 Units)

MATH 110	Number Sys in Elem Math	3
MATH 112	Geometry in Elem Math	3
MATH 114	Children's Mathematical Thinking	1

D. Science (7 Units)

GEOL 110	Earth & Space Science	3
BIOL 100	Principles of Biological Science with lab	4

E. Visual and Performing Arts (3 Units)

MUS 100	Intro to Music Foundations	3

F. Developmental, Health & Physical Education (12 Units)

PE 211	Physical Ed in the Elementary School	3
HE 102	Health Education	3
PSY 101	Intro to Psychology	3
CDEV/PSY 104	Child Growth & Dev	3
OR		
PSY 204	Dvlpmntl Psych: Conception to Death	3

G. Physical Science Elective (3 Units)

PHSC 110	Physical Science	3

*SDSU also has humanities requirement. Please see a counselor to determine the course(s) necessary to meet this requirement.

LIBRARY TECHNICIAN

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

LIFE SCIENCE

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 Human Cultures	3
BIOL 150	Human Genetics	3
BIOL 180	General Biology: Molecules, Cells, and Genetics	4
BIOL 182	General Biology: Principles of Organismal Biology	4
BIOL 200	Human Anatomy and Physiology I	4
BIOL 202	Human Anatomy and Physiology II	4
BIOL 204	Human Anatomy	4
BIOL 206	Human Physiology	4
BIOL 220	General Microbiology	5

II. Select a minimum of 6 units from the following

AG/ENVS 110	Environmental Science	3
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
GEOL 100	General Geology	4
GEOL 110	Earth & Space Science	3
MATH 119	Elementary Statistics	4

MATHEMATICS

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

Twenty-seven (27) units required for the major

I. Fifteen units (15)

MATH 192	Calculus I	5
MATH 194	Calculus II	5
MATH 210	Calculus III	5

II. Three units (3) select from

MATH 220	Elem Differential Equations	3
MATH 230	Intro to Linear Algebra w/Applications	3

III. Nine units selected from (no duplicates from the previous category)

CIS 210	Programming in C++	3
CS 220	Intro to Object-Oriented Prog Using Java	4
MATH 113	Mathematics Software-Geometer's Sketchpad	1
MATH 119	Elementary Statistics	4
MATH 121	Mathematics Software - FATHOM	3
MATH 130	Programming in FORTRAN	3
MATH 220	Elementary Differential Equations	3
MATH 230	Introduction to Linear Algebra w/App	3
MATH 240	Discrete Mathematics	3
MATH 241	Mathematics Software - MatLab	1
PHYS 200	General Physics I	5
PHYS 202	General Physics II	5
PHYS 204	General Physics III	5

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 computer, Web, and/or multimedia graphics, animation, sound and video production, and/or content materials. The program provides entry level training to qualify students for collaborative projects working from within small design firms or for developing web pages for small or large businesses.

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

Twenty-six (26) units for the major

I. Required course for the major

ART 112	Design	3
ART 160	Graphic Design	3

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

NURSING-ASSOCIATE DEGREE (R.N.)

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

Students wishing to complete a Bachelors of Science in Nursing program (BSN) may be required to complete such a course.

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: Must pass a criminal background check as a requirement of the clinical agencies.

Drug Screen: Must pass a drug screen as defined by the Nursing Program as a requirement of the clinical agencies.

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 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 Skills Lab I	1.5
NURS 112	Nursing Process Application I (Clinical)	4
NURS 113	Pharmacology I	1.5
Semester 2:		
NURS 121	Nursing Skills Lab II	1
NURS 123	Pharmacology II	1.5
NURS 125	Nursing Process and Application II	8.5
Semester 3:		
NURS 211	Nursing Skills Lab III	1
NURS 231	Nursing Process and Application III	8.5
NURS 224	Psychiatric & Mental Health Nursing	2
NURS 225	Psychiatric Nursing Applications (Clinical)**	1
Semester 4:		
NURS 221	Nursing Skills Lab IV	1
NURS 230	Nursing Trends	1
NURS 241	Nursing Process and Application IV	8.5

** *Clinical experience may include a rotation outside of county.*

Total Nursing Units	46.5
Total General Education/Support Courses	37- 40
Total Units for Degree	83.5-86.5

***LVN to RN Student** - Advanced placement options are found in the Nursing Appendix on page 151 at the end of the catalog.*

NURSING - VOCATIONAL (V.N.)

The Vocational Nursing Program 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.

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

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

Total Nursing Units	38
Total General Education/Support Courses	30
Total Units for Degree	68

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
PE 211	PE in the Elementary School	3

II. Select six (6) units from the following courses

BIOL 204	Human Anatomy	4
PE 101	Exercise Lab	1
PE 102	Physical Fitness	1
PE 103	Physical Fitness-Women	1
PE 104	Weight Training	1
PE 106	Walking/Jogging Fitness	1
PE 107	Aquatic Exercise	1
PE 111	Aerobics - Step	1
PE 112	Basketball - Men	1
PE 113	Basketball -Women	1
PE 114	Dance Theater	2
PE 115	Dance - Jazz	1
PE 116	Dance-Modern	1
PE 117	Golf	1
PE 118	Golf Advanced	1
PE 119	Self-defense	1
PE 120	Softball	1
PE 121	Swimming	1
PE 123	Water Safety Instructor Train	2
PE 124	Team Sports	1
PE 125	Sports Activity - Advanced	2
PE 126	Tennis	1
PE 127	Tennis-Advanced	1
PE 128	Volleyball	1
PE 129	Volleyball-Advanced	1
PE 130	Adapted Physical Exercises	1
PE 131	Adapted Sports	1
PE 140	Baseball-Advanced	1
PE 141	Softball-Women	1
PE 142	Swimming-Advanced	1
PE 150	Intercollegiate Baseball & PE	2
PE 151	Intercollegiate Basketball & PE	2
PE 152	Intercollegiate Soccer & PE	2
PE 153	Intercollegiate Softball & PE	2
PE 154	Intercollegiate Tennis & PE	2
PE 155	Intercollegiate Volleyball & PE	2
PE 161	Pre-Season Conditioning for Athletes	1.5
PE 162	In Season Conditioning for Athletes	1.5
PE 163	Song & Cheer	2
PE 170	Bowling-Beginning	2
PE 171	Bowling-Intermediate	2
PE 172	Bowling-Advanced	2
PE 200	Theory of Baseball	2
PE 201	Theory of Basketball	2
PE 202	Theory of Softball	2
PE 203	Theory of Volleyball	2
PE 220	Introduction to Athletic Training	2
PE 221	Psychology of Coaching	2
PE 222	Sports Officiating	3
PE 223	Structuring Intramurals	2
PE 224	PE for Special Olympics	3

PHYSICAL SCIENCE

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

Forty (40) units required for the major

I. Thirty-five (35) units from:

CHEM 200	General Inorganic Chemistry I	5
CHEM 202	General Inorganic Chemistry II	5
MATH 192	Calculus I	5
MATH 194	Calculus II	5
PHYS 200	Principles of Physics I	5
PHYS 202	Principles of Physics II	5
PHYS 204	Principles of Physics III	5

Five (5) units from

AG/ENVS 110	Environmental Science	3
ASTR 100	General Astronomy	3
CHEM 204	Organic Chemistry I	5
CHEM 206	Organic Chemistry II	5
GEOG 100	Physical Geography	3
GEOL 100	General Geology	4
GEOL 110	Earth and Space Science	3
MATH 119	Elementary Statistics	4
MATH 130	Programming in FORTRAN	3
MATH 210	Calculus III	5
MATH 220	Elem Differential Equations	3
MATH 230	Intro to Linear Algebra with Applications	3
PHSC 110	Physical Science	3

PRE-ENGINEERING

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. Eighteen (18) units required from

CHEM 200	General Inorganic Chemistry I	5
ENGR 210	Statics	3
MATH 210	Calculus III	5
PHYS 200	General Physics I	5

II. Three (3) units from

MATH 220	Elem Differential Equations	3
MATH 230	Intro to Linear Algebra with Applications	3

III. Three (3) units from

ENGR 212	Dynamics	3
ENGR 240	Electric Circuit Analysis	3

IV. Five (5) units from (no duplicates from previous categories)

CHEM 202	General Inorganic Chemistry II	5
CHEM 204	Organic Chemistry I	5
CHEM 206	Organic Chemistry II	5
CIS 210	Programing in C++	3
CS 220	Intro Object-Oriented Prog Using Java	4

ENGR 212	Dynamics	3
ENGR 240	Electric Circuit Analysis	3
MATH 119	Elementary Statistics	4
MATH 130	Programming in FORTRAN	3
MATH 220	Elem Differential Equations	3
MATH 230	Intro to Linear Algebra with Applications	3
PHYS 202	General Physics II	5
PHYS 204	General Physics III	5

PSYCHOLOGY

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

Twenty-one (21) units required for the major

I. Required courses for the major

PSY 101	Intro to Psychology	3
PSY 200	Biological Psychology	3
PSY 202	Learning	3

Minimum of 12 units from any of the following courses

ADS/PSY 120	Intro to Counseling	3
ADS/PSY 220 **OR** 221	Practicum	3
MATH 119	Elementary Statistics	4
PSY 142	Psy of Adjustment	3
PSY 144	The Psy of Interpersonal Relationships	3
PSY 146	Psych of Human Sexuality	3
PSY 204	Developmental Psychology	3
PSY/SOC 206	Social Psychology	3
PSY 208	Abnormal Psychology	3
PSY 212	Research Methods in Psychology	3

SOCIAL SCIENCE

The requirements for a major in Social Science may be satisfied by completing eighteen (18) units from the following list of courses with grades of "C" or better. At least one course must be taken from four of the following nine fields.

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

I. Required courses for the major (18) units

American Indian Studies

AIS/ANTH 104	California Indians	3
AIS/ANTH 106	Indians of North America	3
AIS/ANTH 108	Indians of the Southwest	3

Anthropology

ANTH 100	Physical Anthropology	3
ANTH 102	Cultural Anthropology	3
ANTH/AIS 104	California Indians	3
ANTH/AIS 106	Indians of North America	3
ANTH/AIS 108	Indians of the Southwest	3
ANTH 120	Intro to Archaeology	3

Economics

ECON 101	Introduction to Microeconomics	3
ECON 102	Introduction to Macroeconomics	3

Geography

GEOG 100	Physical Geography	3
GEOG 102	Cultural Geography	3
GEOG 104	Economic Geography	3
GEOG 108	World Regional Geography	3

History

HIST 100	Early World History	3
HIST 101	Modern World History	3
HIST 110	Early Western Civilization	3
HIST 111	Modern Western Civilization	3
HIST 120	United States History to 1877	3
HIST 121	United States History from 1877	3
HIST/LAS 130	Early Latin America	3
HIST/LAS 131	Modern Latin America	3
HIST/LAS 132	History of Mexico	3
HIST 140	East Asian History	3
HIST 150	Survey of African History	3
HIST 160	Middle East from 600	3
HIST 220	Women in American History	3
HIST 222	History of California	3
HIST 223	History of the American West	3
HIST/LAS 225	Mexican American History	3
HIST 280	Research Topics	3

Latino/Latina Studies

LAS/HIST 130	Early Latin America	3
LAS/HIST 131	Modern Latin America	3
LAS/HIST 132	History of Mexico	3
LAS/HIST 225	Mexican American History	3

Political Science

POLS 100	Intro to Political Science	3
POLS 102	American Govt & Politics	3
POLS 104	Comparative Politics	3
POLS 106	Intro to International Relations	3

Sociology

SOC 101	Introductory Sociology	3
SOC 102	Contemp Social Problems	3

Religious Studies

RELS 100	Religions of the Modern World	3

SPANISH: NATIVE SPEAKER

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

HUM/SPAN 262	Intro to Chicano/a Studies	3
SPAN 220	Bilingual Spanish I	5
SPAN 221	Bilingual Spanish II	5
SPAN 222	Bilingual Oral Spanish	3
SPAN 223	Spanish Reading & Writing	4
SPAN 225	Intro to Spanish American Lit	3

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

HIST/LAS 130	Early Latin America	3
HIST/LAS 131	Modern Latin America	3
HIST/LAS 132	History of Mexico	3
MUS 174	Estudiantina	1

SPANISH: NON-NATIVE

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

SPAN 100	Elementary Spanish I	5
SPAN 110	Elementary Spanish II	5
SPAN 200	Intermediate Spanish I	5
SPAN 210	Intermediate Spanish II	5
SPAN 223	Spanish Reading and Writing	4

II. Acceptable courses for the major
(select a minimum of 5 units from the following courses)

MUS 174	Estudiantina	1
SPAN 222	Bilingual Oral Spanish	3
SPAN 225	Intro to Spanish American in Literature	3
SPAN/HUM 262	Intro to Chicano/a Studies	3

UNIVERSITY STUDIES

The Associate in Arts (A.A.) degree in University Studies is a degree program designed for students who would like to earn an associates degree while preparing to transfer to an accredited four-year university. Students planning to transfer are cautioned that this curriculum may not provide for completion of the lower division requirements for transfer to a four-year institution. See a counselor for specific transfer requirements.

Students may receive only one University Studies degree.

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

ASSOCIATE DEGREE REQUIREMENTS

1. **Graduation Requirements – ALL OPTIONS**
   a. Complete all IVC Graduation and Institutional Requirements.....3-6

2. **General Education (GE)** – Select one pattern related to your educational goal: 34-39
   a. CSU GE-Breadth Pattern.....(39 Units)
   b. IGETC Pattern.....(34-37 Units)

3. **Minimum of eighteen (18) units in one selected Emphasis**.....18
   a. Emphases – Select one:
      (1) Emphasis in Arts and Humanities
      (2) Emphasis in Behavioral and Social Sciences
      (3) Emphasis in Science and Mathematics
   b. Within the selected Emphasis:
      (1) Select a minimum of two different subject areas.
      (2) Complete a minimum of six (6) units in one subject area.
      (3) Courses selected can be used to also fulfill GE areas.

4. **Electives**
   Enough elective units, if necessary, to total 60 degree applicable units required for this degree.

Emphasis in Arts and Humanities

Select a minimum of 18 units from the following Arts and Humanities 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 completion of General Education requirements.

These courses emphasize the study of cultural, literary, humanistic activities and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students will also learn to value aesthetic and understanding and incorporate these concepts when constructing value judgments.

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 Art History, Communication Studies, Language Studies, Literature, Humanities, Philosophy/Religious Studies and other related disciplines.

AMSL	100, 102, 104, 200, 202, 204
ART	100, 102, 104, 106
ENGL	102, 220, 221, 222, 223, 224, 225, 226, 228, 230, 250
FREN	100, 110, 200, 210
HIST	100, 101, 110, 111, 120, 121, 130, 131, 132, 140, 150, 160, 220, 222, 223, 225
HUM	100, 226, 230, 262
JRN	100
LAS	130, 131, 132, 225
MUS	100, 102, 104, 200, 202
PHIL	100, 102, 104, 106
RELS	100, 104
SPAN	100, 110, 200, 210, 220, 221, 225, 262
SPCH	100, 110, 180
THEA	100

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 subgroups 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

WATER TREATMENT 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 I	4
WT 120	Computational Proced for Treatment Plant Oper I	3
WT 130	Wastewater Treatment I	4
WT 210	Water Treat Plant Oper II	4
WT 220	Computational Proced for Treatment Plant Oper II	3
WT 230	Wastewater Treatment II	4

II. Recommended courses for the major

AG/BUS 132	Business Management	3
BUS 134	Mgmt Concepts of Supervision	3
BUS 136	Human Relations in Management	3
CHEM 200	General Inorganic Chemistry I	5

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 Pipe	3
WELD 104	Gas Tungsten Arc Welding on Pipe	3
WELD 105	Flux Core Arc Welding Techniques	3

CERTIFICATE PROGRAMS

ADMINISTRATION OF JUSTICE

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 & Proced 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

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

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 Counseling Approach to Alcohol & Drug Abuse	3
ADS/PSY 210	Crisis Intervention & Referral Techniques	3
ADS/PSY 220	Practicum	3
ADS/PSY 221	Practicum	3
ADS 230	Alcohol & Drug Prevention & Education	3

II. Maximum of three (3) units selected from:

ADS176	Sex and Gambling Addiction	1
ADS177	Anger Management	1
ADS178	Life Skills	1

III. Minimum of six (6) units selected from:

ADS/SOC 150	Sociology of Minority Groups	3
PSY 101	General Psychology	3
PSY 144	The Psychology of Interpersonal Relationships	3
PSY 204	Develop Psych: Concept to Death	3
PSY 208	Abnormal Psychology	3
SW 220	Introduction to Social Work	3
SOC 101	Introduction to Sociology	3

AUTOMOTIVE COLLISION REPAIR

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

Thirty-one (31) units required for the certificate

I. Required courses for the certificate

AU B 120	Automotive Collision Repairs	5
AU B 140	Frame/Undercarriage Repair	5
AU B 220	Estimating and Collision Repair	5
AU B 240	Custom Refinishing & Shop Mgt	3
AU T 125	Automotive Brakes	4
AU T 155	Suspension and Wheel Alignment	4
WELD 100	Welding Technology (formerly WELD 130)	5

AUTOMOTIVE TECHNOLOGY

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

Thirty-nine (39) units required for the certificate

I. Required courses for the certificate

AU T 110	Engine Technology	4
AU T 125	Automotive Brakes	4
AU T 130	Automotive Electronics I	3
AU T 150	Automatic Electronics II.4	4
AU T 155	Suspension & Wheel Alignment	4
AU T 160	Engine Performance Tune-Up	3
AU T 170	Engine Diagnosis & Repair	3
AU T 180	Manual Trans & Power Trains	4
AU T 210	Automotive Air Conditioning	3
AU T 220	Mechanical Automatic Transmissions	4
AU T 230	Emissions Control & Computer Systems	3

II. Recommended courses for the certificate (NOT required)

CIS 100	Computer Literacy	1
OR		
CIS 110	Windows Operating Systems	1
MATH 070	Basic Mathematics	3
WELD 100	Welding Technology (formerly WELD 130)	5
WE 201	Employment Readiness Class	1
WE 220	Internship	1-4

**Student must satisfy the Imperial Valley College mathematics competency . requirements for the certificate.*

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 with trades people, subcontractors, architects, engineers, and inspectors will also be included. This certificate is designed for individuals with Building Construction Trades experience and who have an average to above average mastery of technical mathematics and technical communication skills.

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

Twenty-one (21) units required for the certificate

I. Required courses for the certificate

BLDC 110	Construction Blueprints, Specifications, Measurements and Codes	3
BLDC 140	Building Construction Methods & Materials	3
BLDC 160	Construction Technical & Contract Documents	3
BLDC 170	Essentials of Efficient Green Construction	3
BLDC 180	Building Planning & Cost Estimation	3
BLDC 201	Building Construction Project Management	3
BLDC 210	Construction Management & Organizations	3

BUSINESS ACCOUNTING TECHNICIAN

This program provides students with entry level competencies for employment as a bookkeeper or other financial clerk. Accounting technicians can be found in settings such as banks and offices. Students who intend to pursue an accounting degree at a four-year school should follow the Business Administration major.

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

Twenty-six (26) units required for the certificate

I. Required courses for the certificate

BUS 164	Office Tech & Procedures I	3
BUS 167	Machine Calculation	1
BUS 169	Records Management	2
BUS 172	Office Tech & Procedures II	3
BUS 210 **	Principles of Financial Accounting	4
CIS 101	Intro to Information Systems	3
CIS 108	Computer Accounting	3
CIS 124	Excel I	1
CIS 125	Excel II	1
WE 201 *	Employment Readiness	1
WE 220 *	Internship	1

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

BUS 010	Practical Accounting	3
BUS 061	Business English	3
BUS 124	Intro to Business	3
BUS 220	Prin of Managerial Accounting	4

III. Required skill level for the certificate

Keyboarding skill level 40 nwpm.

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

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

BUSINESS ADMINISTRATIVE ASSISTANT

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 CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

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

I. Required courses for the certificate

BUS 126	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 certificate

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

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

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

BUSINESS FINANCIAL SERVICES

The Business Financial Services program provides students with education and training needed for entry level positions in the banking and finance industry. 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 CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

Twenty-six (26) units required for the certificate

I. Required courses for the certificate

BUS 124	Introduction of Business	3
BUS 126	Bus & the Legal Environment	3
BUS/AG 132	Business Management	3
BUS 210	Prin of Financial Accounting	4
BUS 260	Business Communications	3
CIS 101	Intro to Information Systems	3
CIS 102	Computer Applications Lab	1
ECON 102	Intro to Macroeconomics	3

II. Acceptable courses for the certificate
(minimum of three units from the following courses)

BUS 010	Practical Accounting	3
BUS 060	Essentials of Workplace Communication	3
BUS 148	Personal Finance	3
BUS 220	Prin of Managerial Accounting	4
CIS 108	Computer Accounting	3
CIS 124	Excel I	1
CIS 125*	Excel II	1
ECON 101	Intro to Microeconomics	3
WE 201	Employment Readiness	1
WE 220	Internship	1

** Highly recommended for this certificate.*

BUSINESS MANAGEMENT

The Business Management program provides students with education and training needed for entry level supervisory and management 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 CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

Twenty-six (26) units required for the certificate

I. Required courses for the certificate

BUS 126	Bus & the Legal Environment	3
BUS/AG 132	Business Management	3
BUS 210	Prin of Financial Accounting	4
BUS 260	Business Communications	3
CIS 101	Intro to Information Systems	3
CIS 102	Computer Applications Lab	1

II. Acceptable courses for the certificate
(minimum of nine units from the following courses)

BUS 010	Practical Accounting	3
BUS 060	Essentials in Workplace Communication	3
BUS 124	Intro to Business	3
BUS 134	Management Concepts of Supervision	3
BUS 136	Human Relations in Management	3
BUS 140	Business Retailing	3
BUS 142	Practical Salesmanship	3
BUS 144	Principles of Marketing	3
BUS 148	Personal Finance	3
BUS 220	Prin of Managerial Accounting	4
CIS 108	Computer Accounting	3
CIS 124	Excel I	1
CIS 125	Excel II	1
ECON 101	Intro to Microeconomics	3
ECON 102	Intro to Macroeconomics	3
WE 201	Employment Readiness	1
WE 220	Internship	1

BUSINESS MARKETING

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 CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

Twenty-six (26) units required for the certificate

I. Required courses for the certificate

BUS 126	Business and the Legal Environment	3
BUS/AG 132	Business Management	3
BUS 144	Principles of Marketing	3
BUS 210	Principles of Financial Accounting	4
BUS 260	Business Communications	3
CIS 101	Intro to Information Systems	3
CIS 102	Computer Applications Lab	1

II. Acceptable courses for the certificate
(minimum of six units from the following courses)

BUS 010	Practical Accounting	3
BUS 060	Essentials of Workplace Communication	3
BUS 124	Intro to Business	3
BUS 134	Management Concepts of Supervision	3
BUS 136	Human Relations in Management	3
BUS 140	Business Retailing	3
BUS 142	Practical Salesmanship	3
BUS 148	Personal Finance	3
BUS 220	Prin of Managerial Accounting	4
CIS 108	Computer Accounting	3
CIS 124	Excel I	1
CIS 125	Excel II	1
ECON 101	Intro to Microeconomics	3
ECON 102	Intro to Macroeconomics	3
WE 201	Employment Readiness	1
WE 220	Internship	1

BUSINESS OFFICE TECHNICIAN

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.

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

Twenty-eight (28) units and skill level requried for the certificate

I. Required courses for the certificate

ENGL 060	Practical English for the Workplace	3
BUS 060	Essential in Workplace Corresdn	3
BUS 061	Business English	3
BUS 164	Office Tech & Procedures I	3
BUS 167	Machine Calculation	1
BUS 169	Records Management	2
BUS 172	Office Tech & Procedures II	3
BUS 176	Office Transcription	1
BUS 180	Microsoft Office for the Workplace	4
BUS 260	Business Communications	3
WE 201 *	Employment Readiness	1
WE 220 *	Internship	1

II. Required skill level for the certificate

Keyboarding skill level 40 nwpm. (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.*

NOTE: BUS 060 is recommended before BUS 061.

CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION BREADTH (CSU GE-B)

A minimum of 39 units from the following: Student must complete a minimum of 39 units used to satisfy the CSU General Education-Breadth requirements. Students must receive full certification of the CSU GE-B lower division pattern, which requires a grade of "C" or higher in Area A and Area B-4. See the CSU General Education-Breath requirements pattern listed in the Imperial Valley College catalog under "Transfer Preparation" or consult with an Imperial Valley College counselor.

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

CHILD DEVELOPMENT ASSOCIATE TEACHER

PENDING CALIFORNIA COMMUNITY COLLEGE SYSTEM OFFICE APPROVAL

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

Sixteen (16) units required for the certificate

I. Required Courses for the certificate

CDEV 101	Health, Safety and Nutrition	3
CDEV 102	First Aid &CPR for Teachers of Young Children	1
CDEV 103	Children, Family and Community	3
CDEV/PSY 104	Child Growth and Development	3
CDEV 105	Introduction to Curriculum	3
CDEV 106	Observation and Assessment	3

Note: To be eligible for the State of California Child Development Permit; Associate Teacher students must complete the following experience requirements: fifty (50) days of three or more hours per day within two years.

CHILD DEVELOPMENT ADMINISTRATION SPECIALIZATION

The Administration Specialization Certificate is a certificate demonstrating a completion of specialized course work above the major in the area of Administration. This specialization certificate will prepare students to supervise and manage early childhood programs.

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

I. The major plus nine (9) additional units in Administration

CDEV 210	Administration and Supervision	3
CDEV 211	Advanced Management Functions	3
CDEV 212	Adult Supervision	3

CHILD DEVELOPMENT INFANT/TODDLER SPECIALIZATION

The Infant/Toddler Specialization Certificate is a certificate demonstrating a completion of specialized course work above the major in Infant/Toddler studies. This certificate will also meet the requirements for the specialization field in applying for the Master Teacher Permit.

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

I. The major plus six (6) units in Infant/Toddler course work.

CDEV 220	Infant/Toddler Development	3
CDEV 221	Infant/Toddler Curriculum	3

CHILD DEVELOPMENT SCHOOL-AGE SPECIALIZATION CERTIFICATE

The School-Age Specialization Certificate is a certificate demonstrating a completion of specialized course work above the major in working with school-age children. This certificate will also meet the requirements for the specialization field in applying for the Master Teacher Permit.

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

I. The major plus six (6) units in School-Age course work.

CDEV 230	School-Age Development	3
CDEV 231	School-Age Curriculum	3

COMPUTER INFORMATION SYSTEMS

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

I. Required courses for the certificate

BUS 210	Prin of Financial Accounting	4
CIS 101	Intro to Information Systems	3

Select six (6) programming units

CIS 202	Programming in Visual Basic	3
CIS 210	Programming in C++	3
MATH 130	Programming in FORTRAN	3

II. Select at least seven (7) elective units

(Programming courses taken above may not be used to satisfy this requirement):

BUS 152	Basic Keyboarding	1
OR		
BUS 154	Beg Keyboarding and Doc Formatting	3
OR		
BUS 156	Keyboarding: Speed and Accuracy	3
CIS 050	Online Learning -- An Orientation	5
CIS 102	Computer Applications Lab-1 Unit Max	1
CIS 104	Intro to Telecommunications	3
CIS 106	PC Maintenance & Repair	3
CIS 107	Computer Networking	3
CIS 108	Computer Accounting	3
CIS 110	Windows Operating System	1
CIS 121	Word	1
CIS 125	Excel II	1
CIS 128	Access	1
CIS 130	Power Point I	1
CIS 131	Power Point II	1
CIS 137	Dreamweaver	3
CIS 149	Photoshop	3
CIS 202	Programming in Visual Basic	3
CIS 210	Programming in C++	3
MATH 130	Programming in FORTRAN	3
WE 201	Employment Readiness Class	1
WE 220	Internship	1-4

CORRECTIONAL SCIENCE

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

Twenty-four (24) units required for the certificate

I. Required courses for the certificate

CSI 100	Intro to Corrections	3
CSI/AJ 102	Concepts of Criminal Law	3
CSI 106	Correctional Interviewing & Counseling	3
CSI 108	Control & Supervision of Inmates	3
CSI/AJ 120	Public Safety Communication	3

II. Select nine (9) units from the following courses

AJ 080	Security Guard (Arrest)	0.5
AJ 100	Intro to Admin of Justice	3
AJ 110	Police Community Relations	3
AJ 122	Criminal Investigation	3
AJ 123	Juvenile Control	3
AJ 141	Arrest & Firearms	3.5
CSI 104	Concepts of Probation & Parole	3
ENGL 101	Reading & Composition	3

COURT SERVICES SPECIALIST

PENDING CALIFORNIA COMMUNITY COLLEGE SYSTEM OFFICE APPROVAL

This program is intended to provide an opportunity for court employees and others interested in the justice process to enhance their professional and personal skills.

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

CIS 101	Introduction to Information Systems	3
CIS 120/121	Microsoft Word I or II	1
CIS 124/125	EXCEL I or II	1

II. Acceptable courses for the certificate (12 Units)

Select ONE course from the following (3 Units):

AJ 100	Introduction to Administration of Justice	3
AJ/CSI 102	Concepts of Criminal Law	3
AJ 106	Principles and Procedures of the Justice System	3

Select ONE course from the following (3 Units):

BUS 260	Business Communication	3
ENGL 240	Introduction to Technical and Report Writing	3

Select ONE course from the following (3 Units):

BUS 126	Business and the Legal Environment	3
BUS 136	Human Relations in Management	3

Select ONE course from the following (3 Units):

LEGL 119	Civil Procedures and Discovery	3
LEGL 121	Legal Research	3
POLS 100	Intro to Political Science	3
POLS 102	American Government and Politics	3

DISABILITY SERVICES TECHNICIAN

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 Persons	2
PSY 101	Introduction to Psychology	3

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

AHP 060	Health Assistant	5
AMSL 100	American Sign Language 1	4
AMSL 102	American Sign Language 2	4
AMSL 200	American Sign Language 3	3
AMSL 202	American Sign Language 4	3
AMSL 204	American Sign Language 5	3
AMSL 210	Interpreting Amer Sign Lang 1	3
AMSL 212	Interpreting Amer Sign Lang 2	3

III. A minimum of two (2) courses from the following (5 units)

ADS/PSY120	Intro to Counseling	3
ADS/PSY 210	Crisis Intervention & Referral Techniques	3
AMSL 104	Fingerspelling and Numbers	3
AMSL 110	Introduction to Deaf Culture	3
AMSL 112	Interpreting as a Profession	3
CDEV/PSY 104	Child Growth and Development	3
DSPS/EDUC 242	Practicum Exper to Work w/Disabled Persons	2
DSPS/EDUC 250	Working with Autistic Children	3
PE 224	PE for Special Olympics	3
PSY 142	Psych of Adjustment	3
PSY/SOC 206	Social Psychology	3
SOC 101	Introductory Sociology	3
SOC 102	Contemp Social Problems	3
SW 220	Intro to Social Work	3

EMERGENCY MEDICAL SERVICES

The certificate program prepares the student for licensure as a Paramedic (EMT-P). Acceptance into the program requires successful completion of the application process, approval by the EMS Faculty Coordinator and the EMS Medical Director, current certification as an EMT I or EMT II, current BLS/CPR certification, and for the applicant to be at least 18 years of age prior to any clinical experience. 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.

Thirty-eight and one- half (38.5) units required for the certificate

I. Prerequisites for the certificate

BIOL 090	Anatomy & Physiology for Health Occupations	3
EMT 105	Emer. Medical Technician I (or state certification)	7.5

II. Required Courses for the certificate

EMTP 200	EMT Paramedic - Didactic 1	9
EMTP 210	EMT Paramedic - Didactic 2	9
EMTP 215	EMT Paramedic - Didactic 3	5
EMTP 225	EMT Paramedic – Clinical 1	3.5
EMTP 235	EMT Paramedic - Field 1	6.5
EMTP 245	EMT paramedic - Field 2	5.5

FIELD ARCHAEOLOGY

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

Twenty-four (24) to twenty-five (25) units and 100 hours of field work required for the certificate

I. Required courses for the certificate

ANTH 100	Physical Anthropology	3
ANTH 102	Cultural Anthropology	3
ANTH/AIS 104	California Indians	3
ANTH 110	Intro to Arch Site Surveying	3
ANTH 112	Intro to Arch Excavations	3
ANTH 210	Adv Archaeological Survey	3
ANTH 212	Adv Archeological Excavations	3

II. Three (3) units to be selected from the following course

BIOL 100	Prin of Biological Science	4
BIOL 120	General Zoology I	4
BIOL 122	General Zoology II	4
GEOG 100	Physical Geography	3

FIREFIGHTER I

Successful completion of this certificate will meet the educational requirements for a California State Fire Marshall Firefighter I Certificate. Upon completion of the certificate program the candidate is required to become affiliated with a fire agency for one year of part-time/volunteer or 6 month of full-time work experience as a firefighter meet the requirements of work experience. The candidates work experience must be verified by the agency's Fire Chief with a written letter to the California State Fire Marshall.

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

FIRE/EMT 105	Emergency Medical Technician I	7.5
FIRE 109	Haz. Materials for the 1st Responder (formerly FIRE 120)	3
FIRE 121	ICS 200 Incident Command System	1
FIRE 122	Confined Space Awareness	5
FIRE 130	Basic Fire Academy I	5.5
FIRE 131	Basic Fire Academy II	6
PE 100	Lifetime Exercise Science	2
PE 104	Weight Training	1

FIRE TECHNOLOGY

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 Firefighter 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.

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

Thirty-three (33) units are required for this certificate

I. Required courses for the certificate

FIRE 100	Fire Protection Organization	3
FIRE 101	Fire Prevention Technology	3
FIRE 102	Fire Protec Equip & Systems	3
FIRE 103	Building Construction for Fire Protection	3
FIRE 104	Fire Behavior and Combustion	3
FIRE 108	Fire & Emergency Services Safety & Survival	3

II. Select 15 units from the following acceptable courses for the certificate

AJ/CSI 120*	Report Writing for Admin of Just	3
CIS 101	Introduction to Information Systems	3
FIRE/EMT 105*	Emergency Medical Technician I	7.5
FIRE 109*	Haz Materials for the 1st Responder	2
FIRE 220**	Fire Apparatus 1A	2.5
FIRE 221**	Fire Apparatus 1B	2.5
FIRE 222**	Fire Investigation 1A	2.5
FIRE 223**	Fire Investigation 1B	2.5
FIRE 224**	Fire Management 1	2.5
FIRE 225**	Fire Prevention 1A	2.5
FIRE 226**	Fire Prevention 1B	2.5
FIRE 227**	Fire Instructor 1A	2.5
FIRE 228**	Fire Instruction 1B	2.5
FIRE 229**	Fire Command 1A	2.5
FIRE 230**	Fire Command 1B	2.5
FIRE 231**	Incident Command System (ICS 300)	1.5
FIRE 232**	Public Education 1	2.5
FIRE 233**	Fire Command 1C	2.5
FIRE 234**	Fire Prevention 1C	2.5
FIRE 235**	Fire Instructor 2A	2.5

**Recommended*

*** Core courses required. Fire Fighter II and/or experience requirements as .... mandated by State Fire Training Course Information and Required Materials Manual, California Department of Forestry and Fire Protection, May 2008.*

HUMAN RELATIONS

Areas of emphasis: Community Mental Health Worker, Counseling, School, Social Services, Personnel, Employment Counseling, and Supervision.

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

Twenty-four (24) units required for the certificate

I. Required courses for the certificate

ADS/PSY 120	Intro to Counseling	3
ADS/PSY 220 or 221	Practicum	3
PSY 101	Intro to Psychology	3
PSY 142	Psychology of Adjustment	3
SOC 101	Introductory Sociology	3

II. With the approval of his/her counselor and the Division Chairperson, the student will select a minimum of 9 units (depending on areas of emphasis) from the following courses. It is considered advisable for students in certain areas of emphasis to take more than 9 units from the list below

ADS/SOC 150	Sociology of Minority Groups	3
ADS/PSY 210	Crisis Intervention & Referral Tech	3
ANTH 102	Cultural Anthropology	3
BUS 134	Mgmt Concepts of Supervision	3
BUS 136	Human Relations in Mgmt	3
CDEV/PSY 104	Child Growth and Development	3
CIS 101	Intro to Information Systems	3
MATH 119	Elementary Statistics	4
PD 100	Personal & Career Development	3
PSY 144	The Psych of Interpersonal Relationships	3
PSY 200	Biological Psychology	3
PSY 202	Learning	3
PSY 204	Developmental Psychology	3
PSY/SOC 206	Social Psychology	3
PSY 208	Abnormal Psychology	3
SOC 102	Contemp Social Problems	3
SOC 110	Marriage & the Family	3

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

A minimum of 34 units from the following: Student must complete a minimum of 34 units used to satisfy the IGETC requirements. Students must receive full certification of the IGETC pattern, which requires a grade of "C" or higher in each IGETC course. See the IGETC requirements pattern listed in the Imperial Valley College catalog under "Transfer Preparation" or consult with an Imperial Valley College counselor.

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

LEGAL ASSISTANT

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 Compesition	3
LEGL 115	Legal Procedures	3
LEGL 116	Law Office Management	3
LEGL 117	Criminal Lititgation 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 TECHNICIAN

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 ASSISTANT

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 computer, Web, and/or multimedia graphics, animation, sound and video production, and/or content materials. The program provides entry level training to qualify students for collaborative projects working from within small design firms or for developing web pages for small or large businesses.

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

Twenty-six (26) units for the certificate

I. Required courses for the certificate

ART 112	Design	3
ART 160	Graphic Design	3
BUS 260	Business Communications	(3)
OR		
ENGL 101	Reading & Composition	(3)
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

NURSING - VOCATIONAL (V.N.)

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 Units	38
Total General Education/Support Courses	15
Total Units for Degree	53

WELDING TECHNOLOGY

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**

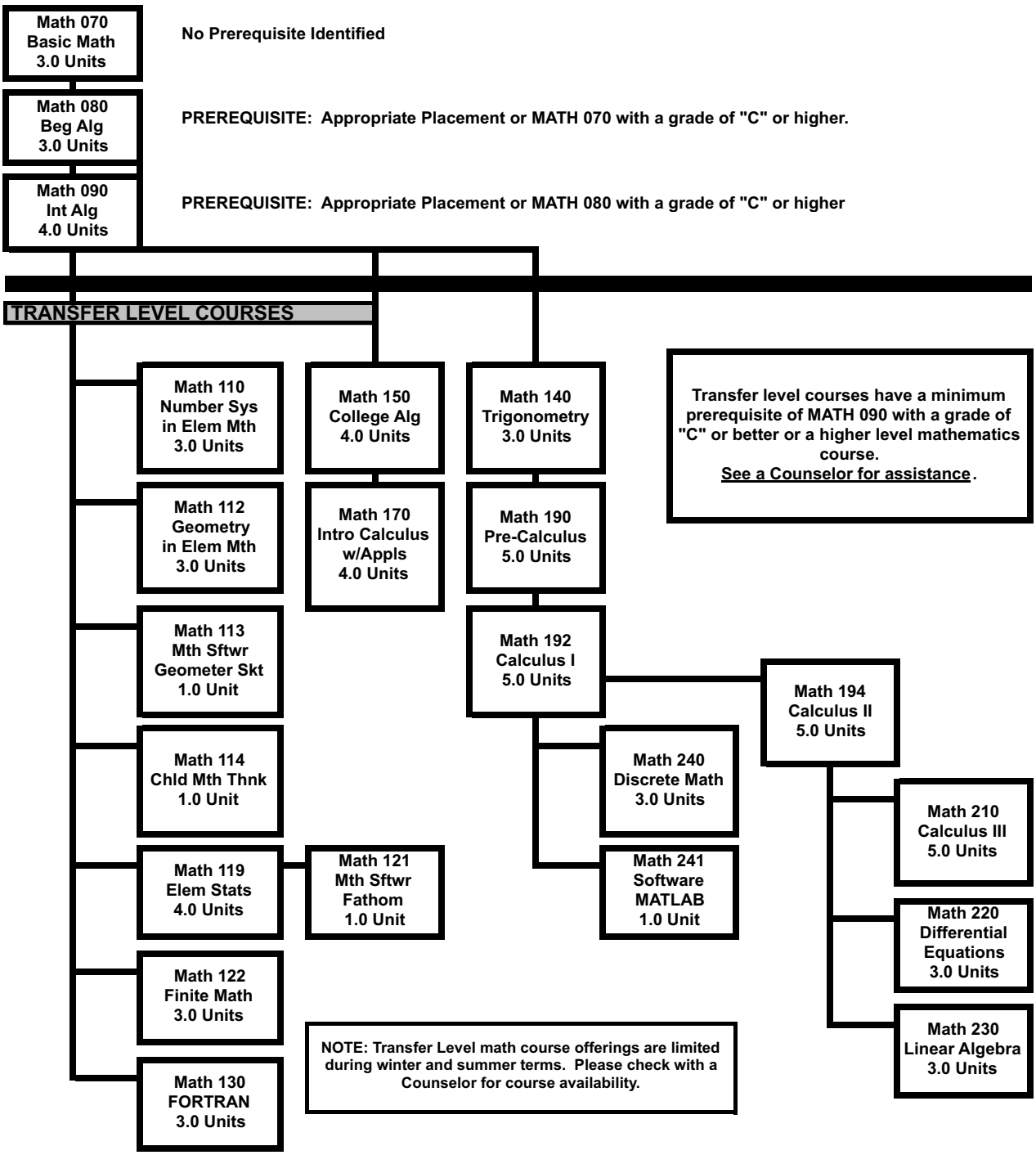
WELD 100	Welding Technology (formerly WELD 130)	5
WELD 101	Gas Tungsten Arc Welding on Plate (formerly WELD 160)	3
WELD 102	Arc Welding on Plate (formerly WELD 220)	5
WELD 103	Arc Welding on Pipe	3
WELD 104	Gas Tungsten Arc Welding on Pipe	3
WELD 105	Flux Core Arc Welding Techniques	3

MATHEMATICS PREREQUISITE CHART

IVC Graduation Requirements and Transfer Level Courses

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



REFERENCE: IVCWritReadHandout.doc Math Tab 04/21/08 CEL

NURSING APPENDIX

NURSING - ASSOCIATE DEGREE (ADN) REGISTERED NURSING

Please contact the Nursing & Allied Health Division prior to applying and/or scheduling.

The student who completes the Registered Nursing (RN) Program, approved by the California Board of Registered Nursing, will be eligible to take the National Council Licensure Examination and if successful will be able to provide nursing care to patients and/or clients in a variety of health care agencies as a registered nurse. The curriculum consists of support course work in general education, nursing didactic work, and nursing clinical experience in local hospitals or health care agencies and facilities outside of the county. Admission to the Nursing Program is by application only. Applications are available online at www.imperial.edu.or in the Nursing and Allied Health Division.

Admission Process

Eligibility and Application *

1. Determine compliance with eligibility requirements and submit proof with application:
    a. Eligible for admission to Imperial Valley College.
    b. Proof of high school graduation or GED.
    c. Be at least 18 years of age at the time of admission.
    d. Meet the Reading competency requirement for graduation.
    e. Meet the Math competency requirement for graduation.
    f. Meet the minimum academic scores:
        i. Overall College a minimum GPA of 2.5 or higher.
        ii. ENGL 101 English and Composition a minimum GPA of 2.0 or higher.
        iii. Core Science ** a minimum GPA of 2.5 or higher on each of the following:
            - BIOL 220 Microbiology
            - BIOL 200 Human Anatomy & Physiology I **and**
              BIOL 202 Human Anatomy & Physiology II
              OR
            - BIOL 204 Human Anatomy **and**
              BIOL 206 Human Physiology

   * NOTE: Meeting eligibility does not guarantee immediate admission and the Nursing Program does not maintain a wait list.
   ** Core science courses must be completed within seven (7) years.

2. **Re-entry students** and advanced placement students must meet all requirements listed above.

3. **Transfer students** requesting acceptance into the IVC Nursing Program must meet all requirements listed above and comply with the following:

   a. Transfer students must present a letter from the director of the former nursing program, stating the circumstances necessitating the transfer and an evaluation of clinical safety.
   b. Transfer students are not eligible for the IVC Nursing Program, if they were deemed unsafe in the clinical area.
   c. Transfer students are not eligible for the IVC Nursing Program, if they received two or more nursing course grades less than a "C".

4. **Applications** will only be accepted during the following two applications periods:
   a. April 1 through April 30 for Fall Admission.
   b. September 1 through September 30 for Spring Admission.
   c. If the last date of the application period falls on a weekend, the following business day at 5:00 PM will serve as the deadline.
   d. Students not accepted to the program will need to resubmit another application. Students are not placed on a wait list.
   e. Applications must be submitted to Nursing and Allied Health Division.

5. **Recommendations** include
   a. Making an appointment with the nursing counselor to discuss transcripts and obtain a 'major sheet'.
   b. Contacting the Nursing and Allied Health for further details.
   c. Attending a nursing information session when available. Information on the dates and times will be posted on the Nursing page of the IVC website at www.imperial.edu .
   d. Ensuring the student has a valid social security number prior to completing the program .

6. **Credit by Exam**:
   Academic credit by examination may be obtained by those whose prior education and/or experience provides the knowledge and skills required to meet the objectives of one or more of the nursing courses. Courses that have a lab component are not open for credit by exam. Students who believe they may be eligible for credit should contact the Nursing Education Office for advisement. For further information on Credit by Examination refer to the college catalog.

Selection

1. The selection process includes a formula based on the California Community College Chancellor's Office and academic scores.
   a. Approximately 75% of qualified applicants are selected by academic rank above the minimum GPA.
   b. Approximately 25% of qualified applicants are selected by lottery.
2. Selections are done in May for Fall entry and October for Spring entry.
3. Students will receive notification within 30 days after the application deadline.

Admission into the Program

1. Prior to starting the program, the student must successfully pass:
    a. Test for Essential Academic Skills (TEAS) exam (If unsuccessful, the student will be required to complete additional coursework).
    b. A health examination by a licensed physician or nurse practitioner to determine physical and mental fitness for the role and duties of a student nurse.
    c. An American Heart Association Basic Life Support course and submit a current copy of the card.
    d. Criminal background clearance and drug screen:
        i. Students who do not pass the background check may not be eligible to participate in clinical training, and may, therefore, be dropped from the program. Students wishing to obtain more information on completing the background check can logon to the American Databank website at www.sdnsebackground.com.
        ii. Students who are known to be actively involved in child, spouse, or elder abuse or involved with drugs, WILL NOT be admitted to the program. Students in the program who are found to be involved with the above, face dismissal from the program. In the State of California, a convicted child abuser will never be allowed to obtain an RN license.
        iii. Students who have been convicted of a misdemeanor or felony are required to disclose this information on their application to take the RN licensure exam. A conviction may affect eligibility to take this exam.
        iv. Students who have concerns about these circumstances should contact the CA Board of Registered Nursing at (916) 322-3350 or logon at www.rn.ca.gov before starting the program.
2. Identified **alternates** for the Program:
    a. Should vacancies become available prior to the start of the term, space will be made available for those students chosen as alternates.
    b. Alternates will be selected from the remaining list of eligible students based on the stated selection criteria and the number of vacancies available.
    c. If not admitted into that term, the alternates must resubmit another application.

Additional Courses Recommended for Student Success

1. Students who have completed all Associate Degree general education requirements and associate degree nursing requirements may wish to take the following recommended courses prior to starting the RN Program:
    a. PSY 204 Developmental Psychology: Conception to Death
    b. AHP 100 Medical Terminology
    c. VN 214 Basic Arrhythmia Recognition
    d. VN 216 Physical Assessment

2. Students may take the following additional requirements to transfer to San Diego State University if a Bachelor's of Science in Nursing degree is desired.
    a. A critical thinking course (ENG 111, ENG 201, PHIL 106, or SPCH 180).

b. CHEM 160 - Introductory General, Organic & Bio Chem.
c. MATH 120 - Introductory Statistics with Applications.
d. POLS 102 - American Government and Politics.
e. HIST 120 or 121 - United States History.
f. PSY 204 - Developmental Psychology: Conception to Death.

Advanced Placement for LVNs seeking admission to the RN Program:
Imperial Valley College offers three (3) options for LVNs wishing to advance to the RN level. All options are open to students who have an active California LVN 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 1 - Associate Degree (ADRN)

1. LVNs seeking to complete the ADRN Program at Imperial Valley College must meet all requirements for admission as identified in the IVC Catalog and the Nursing Education Handbook/Brochure, complete all prerequisite courses, complete the application process above, submit proof of completion of an accredited LVN Program or Armed Services nursing courses deemed equivalent to the LVN level, and submit a copy of a current LVN California license. Applications are accepted throughout the year.

2. Pre-requisites - Courses required for the Associate Degree must be completed with a grade of "C" or better.

ENGL 101 Reading & Composition	3.0
BIOL 220 General Microbiology	5.0
BIOL 200 Human Anatomy & Physiology I **and**	4.0
BIOL 202 Human Anatomy & Physiology II	4.0
OR	
BIOL 204 Human Anatomy (4.0) **and**	
BIOL 206 Human Physiology (4.0)	

Math Competency: A 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 mathematics course with a grade of "C" or higher.

Reading Competency: A score of 3006 on the ACCUPLACER™ Reading Test OR English 089 (Reading IV: Intermediate Development) with a grade of "C" or higher OR English 111 (Reading IV: Analytical and Critical Reading) with a grade "C" or higher.

3. Additional Degree Requirements

SPCH 100 Oral Communication	3.0
PE 100 Lifetime Exercise Science	2.0
PE Elective Activity Course	1.0
Humanities Elective	3.0

Amer. Institutions Requirement (3-6 units)	6.0
Total Minimum Prerequisites and Degree Requirements	31

4. Recommended for the major:
   PSY 204 Developmental Psychology: Conception to Death 3.0
   (Students wishing to complete a Bachelors of Science in Nursing Program [BSN] may be required to complete such a course)

5. Nursing Program Admission Requirements:
   Background: Must pass a criminal background check as a requirement of the clinical agencies.
   Drug Screen: Must pass a drug screen as defined by the Nursing Program as a requirement of the clinical agencies.

6. 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. 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.

7. Registered Nursing Program **Option I Required Courses**:
   Entry into VN to RN Transition
   NURS 204 Transition Course 3.0
   Student standing at end of course will determine the best placement in the program for student success and includes:
   a. Assessment testing in the areas of OB/Maternal Child and Nursing Fundamentals. A fee is charged for each test which includes study materials.
   b. A medication administration exam which must be passed with a 92% score. Students will have three (3) attempts to pass this exam.
   c. A practical skills test to determine safety and proficiency regarding basic principles of nursing practice.
   d. Course grade, exams, assessments, skills test, and instructor recommendation will determine the student's most appropriate placement in the RN program.

   Semester 3:

NURS 224 Psychiatric Nursing	2.0
NURS 225 Psych. Nursing Applications (Clinical) **	1.0
NURS 211 Nursing Skills Laboratory III	1.0
NURS 231 Nursing Process and Application III	8.5

   Semester 4:

NURS 221 Nursing Skills Laboratory IV	1.0

NURS 230 Nursing Trends	1.0
NURS 241 Nursing Process and Application IV	8.5

***** Recommend: course to be taken prior to entering the Nursing Program
******Clinical experience may include a rotation outside of county

Total Nursing Units	26.0
Total Prerequisites and Degree Requirements	31.0
Total Units for Degree	57.0

OPTION II - 30-Unit Option (Non-degree)

1. This option was established by the CA Board of Registered Nursing for LVNs seeking to become eligible for their RN license. More information is available on the Board of Registered Nursing website at www.rn.ca.gov
2. LVNs seeking the 30-Unit Option must meet all requirements for admission as identified in the IVC Catalog and the Nursing Education Handbook/Brochure, complete prerequisite courses as outlined below, complete the application process above, submit proof of completion of an accredited LVN Program or Armed Services nursing courses deemed equivalent to the LVN level, submit a copy of a current LVN California license, submit a signed Disclaimer Form indicating they understand the requirements and limitations of this option. Applications are accepted throughout the year.

3. The program requires students to complete eight (8) units of prerequisite courses. All courses required for Option II – 30 Unit Option must be completed with a grade of "C" or better.
   a. BIOL 092 Microbiology for Advanced Placement 4.0
      or
      BIOL 220 General Microbiology (5 units)
      and
   b. BIOL 202 Human Anatomy & Physiology II 4.0
      or
      BIOL 206 Human Physiology (4 units)
   c. Core science courses must be completed within seven (7) years

   * Human Physiology cannot be substituted with the Human Anatomy course.

4. Non-Associate Degree status: Students who complete Option II may apply to take the National Council Licensure Examination (NCLEX) only as a Non-Degree candidate. If successful, the student will become licensed as a RN by the Calif. Board of Registered Nursing. Endorsement of a non-degree RN in other states is questionable. At the time of application, students must sign and submit a Disclaimer Form indicating they understand the requirements and limitations of this option.

5. Nursing Program Admission Requirements:
   Background: Must pass a criminal background check as a requirement of the clinical agencies,
   Drug Screen: Must pass a drug screen as defined by the Nursing Program as a requirement of the clinical agencies ,

6. 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. Students completing Option II – 30 Unit Option must submit a transcript demonstrating successful completion of all course work prior to sitting for the National Council Licensure Examination for Registered Nurses.

7. Registered Nursing Program **Option II Required Courses**:

Semester 3:

NURS 224 Psychiatric Nursing	2.0
NURS 225 Psych. Nursing Applications (Clinical) **	1.0
NURS 231 Nursing Process and Application III	8.5
NURS 211 Nursing Skills Laboratory III	1.0

Semester 4:

NURS 241 Nursing Process and Application IV	8.5
NURS 221 Nursing Skills Laboratory IV	1.0

**Clinical experience may include a rotation outside of county

Total Nursing Units	22.0
Total General Education/Support Courses	8.0
Total Units for Degree	30.0

Highly recommended for successful completion of the major

NURS 204 Nursing Transition	3.0
NURS 230 Nursing Trends	1.0

OPTION III - Generic Program
The LVN may choose the option of taking the entire Registered Nursing curriculum. Applicants are encouraged to consider Option I or Option II unless they have been away from nursing for a prolonged period and feel the need to consider this option.

Vocational Nursing (VN) Program

The Vocational Nursing Program, approved by the California Board of Vocational Nurse and Psychiatric Technicians, is a three (3) semester program designed to qualify the student to take the National Council Licensure Examination (NCLEX) for Licensed Vocational Nurses (LVNs). If successful, the student may then be employed as a LVN in a variety of settings. Duties within the scope of practice of an LVN typically include, but are not limited to, provision of basic hygiene and nursing care, measurement of vital signs, basic client/patient assessment, medicated intravenous therapy and blood withdrawal (with VN Board certification). **It is strongly recommended the student meet with a counselor prior to applying to the nursing program.**

Admission Process

Admission to the VN Program is by special application, which is available in the Nursing Education Office or from the IVC website at www.imperial.edu. Applications are accepted every three semesters during the month of April for a fall admission or September for a spring admission.

Eligibility and Application *

1. To be eligible for consideration, the applicant must:
    a. Be eligible for admission to Imperial Valley College.
    b. Submit proof of high school graduation or GED.
    c. Be at least 18 years of age at the time of admission.
    d. Be in adequate health to perform the duties of a nurse.
    e. Submit copies of college transcripts indicating completion of the following college level courses, with an overall College GPA of 2.0 of higher:
        i. ENG 101 Reading & Composition
        ii. BIO 090 Anatomy & Physiology for Health Occupations**
        iii. AHP 100 Medical Terminology
        iv. PSY 101 - General Psychology

* NOTE: Meeting eligibility does not guarantee immediate admission and the Nursing Program does not maintain a wait list.
** Core science courses must be completed within seven (7) years.

2. Credit by Exam:
   Academic credit by examination may be obtained by those whose prior education and/or experience provides the knowledge and skills required to meet the objectives of one or more of the nursing courses. Courses that have a lab component are not open for credit by exam. Students who believe they may be eligible for credit should contact the Nursing

Education Office for advisement. For further information on Credit by Examination refer to the college catalog.

Selection for Admission:

1. Applicants are considered by a selection committee. Students are encouraged to complete all course work before submitting an application. More information is available on the IVC website at www.imperial.edu Nursing and Allied Health.

2. Prior to starting the program, the student must successfully pass:
    a. A health examination by a licensed physician or nurse practitioner to determine physical and mental fitness for the role and duties of a student nurse.
    b. Criminal background clearance and drug screen:
        i. Students who do not pass the background check may not be eligible to participate in clinical training, and may, therefore, be dropped from the program. Students wishing to obtain more information on completing the background check can logon to the American Databank website at www.sdnsebackground.com.
        ii. Students who are known to be actively involved in child, spouse, or elder abuse or involved with drugs, WILL NOT be admitted to the program. Students in the program who are found to be involved with the above, face dismissal from the program. In the State of California, a convicted child abuser will never be allowed to obtain an RN license.
        iii. Students who have been convicted of a misdemeanor or felony are required to disclose this information on their application to take the LVN licensure exam. A conviction may affect eligibility to take this exam.
        iv. Students who have concerns about these circumstances should contact the CA Board of Vocational Nursing and Psychiatric Technicians or logon at www.bvnpt.ca.gov before starting the program.
    c. An American Heart Association Basic Life Support course and submit a current copy of the card.

3. Identified alternates for the Program
    a. Should vacancies become available prior to the start of the term, space will be made available for those students chosen as alternates.
    b. Alternates will be selected from the remaining list of eligible students based on the stated selection criteria and the number of vacancies available.
    c. If not admitted into that term, the alternates must resubmit another application.

Vocational Nursing Associate Degree:

The Vocational Nursing Associate Degree Program is designed to provide the education necessary for licensure and practice as a Licensed Vocational Nurse (LVN). Acceptance into the program requires successful completion of all prerequisites, successful completion of the application, and successful completion of the selection processes. After selection, the student

must have a current American Heart Association BLS/CPR certification and successfully passed a criminal background and drug screening. If the student chooses to obtain an Associate of Science Degree in Vocational Nursing, additional degree courses must successfully completed. Students should meet with the Nursing Counselor to confirm class requirements. All required courses must be completed with a grade of "C" or better.
Contact the Nursing and Allied Health Division for further information.

Vocational Nursing Certificate

The Vocational Nursing Certificate Program is designed to provide the education necessary for licensure and practice as a Licensed Vocational Nurse (LVN). Acceptance into the program requires successful completion of all prerequisites, successful completion of the application, and successful completion of the selection processes. After selection, the student must have a current American Heart Association 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 further information.

Vocational Licensure:

More information on the vocational nurse licensure process can be obtained from the California Board of Vocational Nurse & Psychiatric Technicians' website at www.bvnpt.ca.gov.

ADMINISTRATION

AGUIRRE, JUSTINA
Associate Dean of Nursing/Health Technologies
M.S.N., Clarkson College
B.S.N., California State University, Dominguez Hills
A.S., Imperial Valley College

BERRY, KATHLEEN
Vice President for Academic Services, Professor
M.S.N., Clarkson College
B.S.N., California State University, Dominguez Hills
A.S., Imperial Valley College

CEASAR, TED
Associate Dean of Disabled Student Programs & Services
M.S.W., San Diego State University
B.A., University of Michigan

GOULD, EDWARD
Superintendent/President
Ed.D. University of Nevada
M.S., San Diego State College
B.A., California State College, Hayward
A.A., Hartnell College

GREGORY, TRAVIS
Associate Dean of Human Resources/EEO
M.Ed., Northern Arizona University
B.S., Northern Arizona University

HUERTA, GONZALO
Dean of Instruction for Applied Sciences
M.A., Northern Arizona University
B.S., Northern Arizona University
A.A.S., Arizona Western College

JAIME, VICTOR
Vice President for Student Services, Professor
Ed. D., Northern Arizona University
Ed. S., Point Loma Nazarene College
M.S., San Diego State University
B.A., University of California, Irvine

LAU, JOHN
Vice President for Business Services
B.S., San Diego State University

LOPEZ, SERGIO
Associate Dean of Student Affairs, Professor
M.Ed., University of San Diego
B.A., San Diego State University
A.A., Imperial Valley College

MAGNO, JANIS
Dean of Financial Aid and State Programs, Professor
M.S., San Diego State University
B.A., San Diego State University
A.A., Imperial Valley College

RUHL, TAYLOR
Associate Dean of Learning Services
Ed.D., University of the Pacific
M.S.L.S., University of Southern California
M.A., Pacific Union College
B.A., Pacific Union College

SILVA, EFRAIN
Dean of Instruction, Extended Campus
M.B.A., Northern Arizona University
B.A., San Diego State University
A.A., Imperial Valley College

WESTERFIELD, KATHIE
Associate Dean of Admissions and Records
M.B.A., Western Washington University, Washington
B.S., City University Washington
A.A., Skagit Valley College, Washington

YING, ROBIN
Dean of Technology
Ph.D., UC Berkley
M.S. Yale University

THE FACULTY

AGEE, JOHN
Instructor, Sociology
M.A., California State University, Los Angeles
B.S., California State University, Los Angeles

ALVARADO, BEATRIZ
Counselor, Associate Professor
M.A., University of San Diego
B.A., San Diego State University
A.A., Imperial Valley College

ARGÜELLES, TRINIDAD
Counselor, Associate Professor
M.A., University of Redlands
B.A., San Diego State University
A.A., Imperial Valley College

ARMENTA, CELESTE
Assistant Professor, Nursing
F.N,P., University of San Diego
M.S., National University
B.S., National University

ARTECHI, G. OLGA
EOPS/CARE Project Director, Counselor, Professor
M.A., San Diego State University
B.A., San Diego State University

AVILA, BEATRIZ
Counselor, Associate Professor
M.A., University of Redlands
B.S., California Polytechnic State University, San Luis Obispo

AYE, TYSON
Assistant Professor, Exercise Science, Wellness & Sports
M.A., San Jose State University
B.A., Concordia University
A.A., Fresno City College

BAUKHOLT, ROBERT
Instructor, English
M.A., California State University, Northridge
B.A., University of California, Los Angeles
A.A., College of the Canyons

BECKLEY, JEFFREY
Associate Professor, Business
J.D., University of Washington
B.A., Idaho State University

BEMIS, ROBERTA
Professor, English
M.A., Northern Arizona University
B.A., San Diego State University

BEOPE, FRANCES
Head Counselor, Professor
M.S., San Diego State University
B.A., San Diego State University

BILEY, PATTI
Professor, English
Ph.D., University of Texas, Austin
M.A., Southern Illinois University
B.A., Southern Illinois University

BLEK, CRAIG
Associate Professor, Economics
M.A., University of Delaware
B.A., University of California, Los Angeles

BYRD, KRISTA
Associate Professor, Psychology
M.A., Northern Arizona University
B.A., San Diego State University

CAMPOS, GILBERT
Counselor, Associate Professor
M.A., University of Redlands
B.A., San Diego State University

CAÑEZ - SAVALA, SAID
Counselor, Professor
M.Ed., University of San Diego
B.A., San Diego State University

CARLSON, C. MARYLYNN
Professor, Nursing
B.S.N., University of Connecticut

CASTRAPEL, RICK
Instructor, Computer Science
M.A., Claremont Graduate University
B.A., Portland State University

CHIEN, ANDREW
Assistant Professor, Biology
Ph.D., University of Illinois
M.S., Oklahoma State University
M.B.A., California State University, Los Angeles
B.S., Southeast Missouri State University

CORMIER, JUDY
Assistant Professor, English
M.A., California State University, Long Beach
B.A., California State University, Long Beach
A.A., Golden West College

CRAVEN, JULIE
Associate Professor, English as a Second Language
M.A., United States International University
B.A., San Diego State University
A.A., Fullerton College

DAVID, SAMUEL
Associate Professor, Chemistry
Ph.D., Biochemistry (India)
M.Sc., Biochemistry (India)

DAVIS, DONNA
Associate Professor, Nursing
N.P., San Jose State University
M.S.N, California State University, Dominguez Hills
B.A., Westfield State College
A.S., Imperial Valley College

DAVIS, HOPE
Instructor, Music
Ph.D., University of Southern Mississippi
D.M.A., Louisiana State University
M.A., University of Wyoming
B.M., Royal College of Music/Trinity College
A.M., Trinity College

DAVIS, LINCOLN
Associate Professor, English
M.A., California State University, Los Angeles
B.A., Columbia College, Chicago

DECKER, VAN
Associate Professor, Music
Ph.D., UCSD
B.M., M.M., California State University, Long Beach
A.A., Lansing Community College, Lansing MI

DEYO, JEFF
Professor, Exercise Science, Wellness & Sport
M.S., West Virginia University
B.A., Mount Marty College

DIAZ, DOLORES
Student Support Services Project Director
Counselor, Professor
M.Ed., University of San Diego
B.A., San Diego State University

DORANTES, KATHLEEN
Associate Professor, English
M.S., Columbia University, New York
M.A., California State University, Fullerton
B.A., McGill University, Montreal

DORSEY, TANYA
Counselor, Instructor
M.A., University of Redlands
B.A. California State University, Los Angeles
A.A., Pasadena City College

DRURY, DAVE
Professor, Chairperson Exercise Science, Wellness & Sport
M.S., Brigham Young University
B.S., University of La Verne

EDWARDS, AARON
Instructor, Philosophy
M.A., San Diego State University
B.A., San Diego State University
A.A., San Diego Mesa Community College

ESQUEDA, JESUS
Counselor, Professor
M.A., United States International University
B.A., San Diego State University

FINNELL, GAYLLA
Assistant Professor, Political Science
M.P.A., San Diego State University
B.S., San Diego State University
A.A., A.S., Imperial Valley College

FISHER, JAMES
Assistant Professor, Chemistry
Ph.D. University of Idaho
B.A., University of Montana

FITZSIMMONS, RICHARD
Professor, Nursing
F.N.P., Clarkson College
M.S.N., Madonna University
B.S.N., Madonna University

FLETES, MYRIAM
Educational Talent Search Project Director
Counselor, Associate Professor
M.A., University of Redlands
B.A., University of Arizona

FRISTRUP, CAREY
Outreach Coordinator, Assistant Professor
M.A., Point Loma Nazarene University
B.A., San Diego State University

GAGE-MOSHER, RONALD
Associate Professor, Psychology
Ph.D., Fielding Institute
M.A., Fielding Institute
M.A., San Jose State University
B.A., San Jose State University

GARCIA, RAQUEL
Instructional Specialist, Associate Professor
M.A., United States International University
B.A., San Diego State University

GARZA, ALEJANDRO
Instructor, English as a Second Language
M.A., California State Polytechnic University, Pomona
B.A., California State University, Los Angeles
A.A., Pasadena City College

GHANIM, WALID
Associate Professor, Computer Information Systems
M.A., California State University, Dominguez Hills
B.S., California State University, Dominguez Hills

GILBERTSON, THOMAS
Associate Professor, Art
M.F.A., University of Nevada, Las Vegas
M.A., San Jose State University
B.F.A., San Jose State University

GILISON, DANIEL
Assistant Professor, Biology
Ph.D., Stanford University
B.A., Johns Hopkins University

GOLDSBERRY, RICK
EMS Program Director/Coordinator?Instructor
A.A., Imperial Valley College

GRETZ, SUZANNE
Associate Professor, History
Chairperson, Division of Behavioral Health and Social Sciences
M.A. California State University, Fullerton
B.A. University of California, Santa Barbara

GUINN, MELANI
Assistant Professor, Speech
Chairperson, Division of Humanities
Ph.D., University of California, Berkeley
M.A., University of California, Berkeley
B.A., University of California, Berkeley

GUZMAN, CESAR
Counselor, Professor
M.S., La Verne College
B.A., Adams State College

HANSINK, TODD
Professor, Business
M.P.A., Brigham Young University
B.S., Brigham Young University

HARRIS, DIANE
Associate Professor, English as a Second Language
M.A., California State University, Fresno
B.A., California State University, Fresno

HEGARTY, CAROL
Assistant Professor, Art
M.F.A., The Art Institute of Chicago
B.F.A., The Art Institute of Chicago

HERNANDEZ, OSCAR
Instructor, Mathematics
B.S., San Diego State University

HEUMANN, MICHAEL
Assistant Professor, English
Ph.D., University of California, Riverside
M.A., University of California, Riverside
B.A., University of California, Riverside

HIGGINS, S. BRENDA
Assistant Professor, Nursing
B.S., National University
A.A., Imperial Valley College

HIGGINSON, JANE
Instructor, Environmental Science
M.R.P., Washington State University
B.S., Utah State University

HOLT, STEVE
Instructor, Emergency Medical Technologies
A.S., Imperial Valley College

HORTON, SIDNE
Professor, Exercise Science, Wellness & Sport
M.S., California State Polytechnic University, Pomona
M.A., California State University, Sacramento
B.A., California State University, Long Beach

JACOBSON, ERIC
Professor, History
M.P.A., California State University, Hayward
B.A., California State University, Hayward

JEPSON, ROSALBA
Instructor, Nursing
M.S., University of Phoenix
B.S., University of Phoenix
A.S., Imperial Valley College

KALIN, JANEEN
Counselor, Professor
B.A., California Polytechnic State University
M.A., California Polytechnic State University, San Luis Obispo

KAREVA, KSENIYA
Assistant Professor, English as a Second Language
M.A., Minnesota State University
M.E, Kaluga State Teacher's Training University
B.A., Kaluga State Teacher's Training University

KELLY, NANNETTE
Professor, Art
P.h.D., The Union Institute
M.A., Southern California School of Theology, Claremont
B.A., California State University, Fullerton

KNAAK, MANFRED
Assistant Professor, Anthropology
M.A., San Diego State University
B.A., San Diego State College

LAVERY, RUSSELL
Assistant Professor, Astronomy/Physics
Ph.D., University of Hawaii, Manoa
M.A., University of Hawaii, Manoa
B.S., University of Massachusetts

LAY, NANCY
Assistant Professor, English
M.A., San Diego State University
B.A, San Diego State University
A.A., Imperial Valley College

LEE, CAROL
Transfer Center Project Director
Counselor, Professor
M.S., National University
M.A., San Diego State University
B.A., San Diego State University

LEHTONEN, ERIC
Assistant Professor, Mathematics
M.A., San Diego State University
B.A., San Diego State University

LEON, ALLYN
Assistant Professor, Mathematics
M.S., Texas A&M University
B.A., University of California, San Diego

LOFGREN, MARY
Counselor, Professor
M.A., University of Redlands
B.A., University of Redlands

LOPEZ, JOSE
Professor, Automotive Technology
A.S., Imperial Valley College
Cert. Auto Tech., Los Angeles Trade Technology College
Automotive Master Technician Certification
Automotive Factory Training Certification
B.S., Long Beach State University

LOPEZ, ROSALIE
Upward Bound Project Director
Counselor, Professor
M.Ed., University of San Diego
B.A., San Diego State University

LOVITT, PAIGE
High Tech Center Specialist, Associate Professor
M.S., California State University, Fresno
B.A., California State University, Fresno

LUOMA, CRAIG
Professor, Nursing
B.S.N., Pacific Lutheran University

MARCUSON, BRUCE
Professor, Administration of Justice
B.A., San Diego State University
A.A., Imperial Valley College

MARQUEZ, RALPH
Counselor, Professor
M.Ed., University of San Diego
B.A., University of California, San Diego

MARTINEZ, ANDRES
Instructional Media Designer, ACCESO/Instructor
M.S., National University
B.A., San Diego State University
A.S., Imperial Valley College

MARTINI, DONALD
Associate Professor, English
M.A., State University of New York
B.A., Louisiana State University, Baton Rouge

MARTY, KEVIN
Assistant Professor, Geology
M.S., University of New Orleans
B.S., Central Washington University

MASON, CHARLES
Assistant Professor, American Sign Language
A.A., Palomar College

MAZEROLL, LORRAINNE
Counselor, Associate Professor
M.A., University of Redlands
B.A., San Francisco State University

McCLAIN, JOHN
Assistant Professor, English as a Second Language
M.A., San Francisco State University
B.A., University of California, Berkeley

McNEECE, P. BRIAN
Professor, English
M.Ed., Northern Arizona University
M.A., San Diego State University
B.A., UC San Diego

MECATE II, JAMES
Professor, Exercise Science, Wellness & Sport
M.S., Brigham Young University
B.S., Brigham Young University

MEEK, AL
Professor, Nursing
M.S., Fresno State College
B.S., California State Polytechnic College, San Luis Obispo

MERCADO, MARIA LOURDES
Counselor, Associate Professor
M.A., Point Loma Nazarene University
B.A., San Diego State University
A.A., Imperial Valley College

MILLER, FONDA
Associate Professor, Child, Family, and Consumer Sciences
M.S., Iowa State University
B.A., Otterbein College

MIRANDA, FRANK
Assistant Professor, Air Conditioning & Heat Ventilation
Contractors State License

MORALES, MARCO
Instructor, Welding
El Paso Community College, Welding Certificate

MORRELL, THOMAS
Assistant Professor, Biology
Ph.D., Pennsylvania State University
M.S., University of Nevada
B.S., University of Montana
A.A., Columbia Community College

MOSIER, LAURA
Assistant Professor, Speech
M.A., San Diego State University
B.A., San Diego State University
A.A., Grossmont Community College

MOSS, SUSAN
Instructor, Biology
M.S., University of Florida
M.S., University of Oklahoma
B.A., Mercer University

NAVA, NORMA
Counselor, Professor
M.S., San Diego State University
B.S., San Jose State University

NILSON, BARBARA
Professor, Mathematics
B.A., San Diego State University

NORRIS, TERRY
Learning and Tutorial Services Specialist, Instructor
M.D., Northwest Baptist Seminary
B.A., The Master's College

NUÑEZ, NORMA
Matriculation Project Director, Professor
M.S., San Diego State University
A.B., San Diego State University
A.A. Imperial Valley College

ORFANOS-WOO, STELLA
Counselor, Professor
M.A., Point Loma Nazarene College
B.A., University of California, Riverside

PAGE, BRUCE
Assistant Professor, Speech/Journalism
M.A., American University
B.A., University of British Columbia
A.A., Skagit Valley College

PAINE, THOMAS
Associate Professor, Computer Information Systems
M.S., National University
B.S., California College of Podiatric Medicine
B.S., Regents College
A.S., Grantham College of Engineering

PAINE, YVONNE
Instructor, English
B.A., San Diego State University
A.A., Mesa Community College

PASTRANA, LETICIA
Instructor, English as a Second Language
M.A., Monterey Institute of International Studies
B.A., University of California, Riverside

PATTERSON, JAMES
Professor, English
Ph.D., The Union Institute
M.A., Arizona State University
B.A., Grand Canyon University

PAULEY, PATRICK
Instructor, Agriculture
Ed.D., Texas Tech University
M.S., California State Polytechnic University
B.S., California State Polytechnic University
A.S., West Hills Community College

PFISTER, TONI
Assistant Professor, Exercise Science/Wellness/Sports
Ed.D., University of San Diego
M.S., California State University, Hayward
B.A., San Diego State University

PLASCENCIA, JOSE
Counselor, Associate Professor
M.S.W., San Diego State University
B.A., San Diego State University
A.A., Imperial Valley College
A.S., Imperial Valley College

POLLOCK-BLEVINS, DIEDRE
Professor, Nursing
M.S.N., University of Phoenix
B.S.N., Consortium of California State Universities & Colleges

PRADIS, RICARDO
Associate Professor, Automotive Technology
Universal Technical Institute, Phoenix AZ

RANGEL, JAVIER
Instructor, Spanish
Ph.D., University of California, Los Angeles
M.A., California State University, San Diego
A.B., California State University, San Diego
A.A., Imperial Valley College

RAPP, FRANK
Instructor, English
M.A., San Diego State University
B.A., San Diego State University

RICE, SYDNEY
Instructor, English as a Second Language
M.A., California State University, Long Beach
B.A., Whitworth College

RIEHLE, BETSY
Assistant Professor, Mathematics
B.A., San Diego State University
A.A., Imperial Valley College

RODGERS, GARY
Professor, Administration of Justice, Anthropology & Sociology
M.S., National University
B.A., San Diego State University

RODGERS, VALERIE
Professor, Business
Chairperson, Division of Business
M.A., Webster University
B.S., San Diego State University

ROWLEY, DEIRDRE
Associate Professor, English
M.A., Northeastern University
B. A., University of New Hampshire

RUIZ, ANGELICA
Associate Professor, Business
M.A., California State University, San Bernardino
B.A., Loma Linda University
A.A., Imperial Valley College

RUIZ, JOSE
Assistant Professor, Spanish
Ph.D., University of California, San Diego
M.A., San Diego State University
B.A., San Diego State University

SANCHEZ-DOMINGUEZ, ROMANO
Assistant Professor, Spanish
M.A., University of California, San Diego
B.A., University of California, San Diego

SANDOVAL, LILIA
Counselor, Associate Professor
M.A., Point Loma Nazarene University
B.S., San Diego State University
A.S., Imperial Valley College

SANTISTEVAN, JUDY
Associate Professor, Business
M.A., Webster University
B.A., San Diego State University
A.A., Imperial Valley College

SCHEUERELL, EDWARD
Professor, English as a Second Language
M.A., University of Illinois
M.A., (Spanish) University of Illinois
B.A., University of Illinois

SEIVERTSON, BRUCE
Assistant Professor, Geography
Ph.D., University of Arizona
M.A., California State University, Chico
B.A., California State University, Chico

SHANER, CHRISTINA
Instructor, English
M.A., Carnegie Mellon University
B.A., Texas Christian University

SHEPPARD, DAVID
Assistant Professor, Child, Family, and Consumer Sciences
M.S., San Diego State University
B.S., Cal State University Fullerton

SHOKOUFI, MARDJAN
Associate Professor, Mathematics
M.S., San Diego State University
B.S., California State University, Northridge

SIMPSON, SCOTT
Associate Professor, English as a Second Language
M.A., University of Illinois
M.A., Michigan State University
B.A., University of Maine

SOLOMON, LISA
Instructor, History
M.A., California State University, Stanislaus
B.A., California State University, Fresno

STATON, M. ROBIN
Professor, Psychology
M.A., West Virginia University
B.A., University of Charleston

STROUD, V. JEAN
Professor, Nursing
M.S., San Diego State University
B.A., San Diego State University
B.S.N., Consortium of California State Universities & Colleges
R.N., Imperial Valley College
A.S., Imperial Valley College

SWIADON, GLENN
Instructor, French
P.h.D., Universidad Nacional Autonoma de Mexico
M.A., University of California, Berkeley
B.A., University of California, Berkeley

THORESEN, JOSEFINA P.
Professor, English as a Second Language
M.A., Northern Arizona University
B.A., San Diego State University
A.A., Imperial Valley College

TUCKER, JILL
Associate Professor, Exercise Science
M.A., Grand Canyon University
B.A., Eastern New Mexico University

VELASQUEZ, JOSE
Instructor, Construction Technologies
B.A., San Diego State University
A.S., Imperial Valley College

VOLDMAN, ALEKSANDR
Associate Professor, Mathematics
Ed.D, Kishinev Math Institute
M.S., San Bernardino University
B.S., Northeastern University

WAINWRIGHT, MARY JO
Assistant Professor, History
M.A., California State University, Hayward
B.A., University of California, Berkeley
A.A., Chabot College

WHITE, KEVIN
Assistant Professor, Political Science
M.A., San Diego State University
B.A., San Diego State University

WILLIAMS, JACK
Assistant Professor, Nursing
M.S., University of Phoenix
B.S., National University
A.S., Imperial Valley College

WRIGHT, BRADFORD
Instructor, History
M.A., University of San Diego
B.A., San Diego State University
A.A., Imperial Valley College

ZHAO, LIANNA
Professor, Science
Chairperson, Division of Science, Math, and Engineering
M.D., Capital Institute of Medicine
M.S., Northeast Louisiana University

ZIELINSKI, DAVID
Professor, English
Chairperson, Division of English
M.A., San Diego State University
B.MSC, University of Metaphysics
A.B., San Diego State University
M.D., Capital Institute of Medicine
M.S., Northeast Louisiana University

ZIELINSKI, DAVID
Professor, English
Chairperson, English
M.A., San Diego State University
B.MSC, University of Metaphysics
A.B., San Diego State University

EMERITUS FACULTY

AKERS, H. RUSSELL
Physically Limited
1973-1987

ALBERDA, STANLEY
Dean of Learning Services
1969-1993

ANDERSON, LESLIE
Law Enforcement
1967-1983

ARAGON, RAUL
Counselor, Professor
1973-2006

ARCHULETA, JOE
Math
1974-2008

BACON, JEANNE
Physically Limited
1973-1985

BANKS, STANLEY †
Sociology
1966-1987

BARKALOW, N.C. †
Law Enforcement
1974-1981

BARKER, MICHAEL †
Anthropology
1968-1979

BILLINGS, LANELLE
Business
1974-1999

BILLINGS, ROBERT C.
Physical Ed, Auto Tech
1968-1999

BORCHARD, MARY KAY
Professor, Administration of Justice
P.O.S.T. Coordinator
1983-2006

BRUNGARDT, MARTHA †
Nursing
1972-1985

BUCKEL, EILEEN
Dean of Learning Services
1993-2005

BERNARD, WILLIS C.
Art
1969-1988

CARNES, DENNIS
Biology
1995-2009

CERDA, DANIEL
English
1974-2003

CERDA, ERNESTINE
English
1974-2003

CHAMPAGNE, PHILIP
Welding
1971-1989

DePAOLI, JOHN A. †
Superintendent/President
1965-1995

DOMINGUEZ, GILBERT
Superintendent/President
1996-2002

DUFF, JACK
Counseling
1981-1985

† Deceased

FARRAR, LLOYD †
History
1968-1992

FARRIER, PAUL
History
1970-1994

FIELDS, MAX
Health Education/Physical Education
1969-1994

FINLEY, LUTHER †
Engineering
1960-1981

FINNEY, DEE t
Physical Education
1967-1981

FISCHER, FRED
English
1982-2009

FUESLER, JACK †
Music
1964-1989

GALAMGAM, ADELE †
Assistant Librarian
1965-1994

GARTIN, HERBERT †
Psychology
1966-1978

GENTRY, GLENN A. †
Work Experience
1967-1981

GERARD, ROBERT †
Coord., Special Populations
1988-1993

GRANADOS, ESTHER
Business
1990-1999

GREVATT, JAMES
Counseling
1975-1996

GRIFFIN, WILLIAM †
Business
1961-1992

HANN, CAROL
Professor, English
1975-2006

HANN, RICHARD
Humanities
1967-2003

HEBERT, ROGER
Physical Education
1968-1994

HILLHOUSE, ROSANNE
English
1963-1999

HINSHAW, JOHN †
Mathematics
1942-1973

HUGHES, MERRLYNN
Nursing
1986-1997

JACKLICH, JOEL
Professor, Music
1989-2006

JERGE, MICHAEL
Business, Economics
1967-1999

JONES, SHIRLEY
Counseling
1982-1999

KELSOE, LEON
History & Exercise Science
1970-2003

KNOWLTON, ROGER
Mathematics
1976-1999

KOSKI, RAUHA K. †
Nursing
1974-1981

LANFORD, CONWAY
Counseling
1970-1984

LARSSON, HAROLD
Astronomy
1966-1984

LEGARRA, STANLEY
Health Education/Physical Education
1974-1992

LEONARD, THOMAS †
Psychology
1964-1972

LEPTICH, DEAN
Speech
1965-1996

LEWIS, STANLEY H.
Ag/Heavy Equip. Mech.
1969-1983

LOPEZ, HECTOR
VP/Stu Svcs/Deputy Supt
1970-1999

LOPEZ, RUEBEN 0.
Dean of Extended Campus
1974-2001

LOWE, JUANITA
Art
1961-1990

MARKS, BETTY
Nursing
1984-2000

MACCI, BARBARA
Dean of Voc Ed
1976-1996

MCCORMICK, J. MICHAEL †
English
1972-2008

MELLINGER, ELWOOD
Agriculture
1961-1989

MONTENEGRO, JEAN
English, ESL, and Exercise
Science, Wellness & Sport
1966-2000

MOORE, ERNEST †
Business
1970-1978

MOORE, ROBERT
Business
1970-1988

NADEAU, NANCY
English Instructor
1975-2002

NOVAK, RUTH †
Dean of Counseling
1958-1972

ORENSZTEIN, ARMAND
Math
1967-2009

ORTEGA, ALICIA
Foreign Language
1967-2009

OVERMAN, RUTH †
Business
1965-1981

PAULSON, CLARENCE †
Business
1960-1988
PENDLEY, J.R.
Science
1967-2003

PERSKE, GERALD
Science
1960-1994

PETERSON, AVIS
Nursing
1984-1991

RAULSTON, JEAN †
English
1977-1994

RICE, PAULINE BENOIT †
Foreign Language/Humanities
1963-1988

RICHARDS-CROFT, DONNA LEA
Business
1998-2005

RICHWINE, HAROLD
Chemistry/Physical Ed
1960-1999

RODDEN, ROSE †
Health Education
1974-1986

RUDOLPH, WILLIAM †
Dean of Vocational Education
1964-1993

SAMSON, WALTER †
History
1963-1982

SAMUELS, CARMEN
Nursing
1971-1981

SANTOS, RAFAEL †
Business
1975-1999

SAXE, ELLEN
Nursing
1981-1990

SECHRIST, WILLIAM †
VP/Bus Svcs/Deputy Supt
1990-1998
SMITH, MARY M.
English
1975-1996

SMITH, MELVIN †
Disabled Student Programs
1990-2003

SPEER, WILLIAM †
English
1961-1987

SPENCER, TERREL †
Superintendent/President
1963-1978

STANDIFORD, SANDRA
Counseling, Dean of Admissions
1967-2003

STEARNS, HAROLD
Speech
1973-1986

STONE, JAMES
Mathematics/Music
1966-1986

STUART, BARBARA
English
1990-2007

SUCZEK, PETER
Psychology and Sociology
1974-2005

SWANN, MARIE †
English
1964-1980

THOMPSON, BLAINE
Business
1962-1999

THORNBURG, WILLIAM
VP for Business Services
1967-1990

TOPPER, IRENE †
Nursing
1976-1984

UPSON, JOHN †
English
1966-1977

VALENTINE, BARBARA
Early Childhood Education
1978-1999

VALENTINE, MARTIN
English
1976-2003

VON WERLHOF, JAY
Anthropology/Social Science
1973-1991

WALKER, JAMES D.
VP/Academic Services/Deputy
Superintendent
1969-1996

WASSON, HENRY †
Math/Science
1962-1994

WEISSMAN, HARRY
English
1969-1980

WELCH, T. LARRY
Librarian
1994-2004

WENDRICK, MARY
English
1990-1999

WENDRICK, MEL
Director of DSP&S
1973-1999

WHITE, HOWARD †
Law Enforcement
1969-1979

WHITE, RAY
Automotive Technology
1964-1998

WILHELM, ROBERT
Geography & Political Science
1970-2003

WILLIAMS, RICHARD †
Psychology
1974-1999

WILSON, PATRICIA
English
1970-1991

ZOBELL, SHERRY
Math
1998-2009

IMPERIAL VALLEY COLLEGE

Campus Map & Directory

LEGEND

10	Administration	800	Business	1700	Workforce Development Cntr	2600	Reading/Writing/Language Lab
100	Counseling/Financial Aid	900	Meyer Business Building	1800	Maintenance/Warehouse	2700	Offices -Temporary Building
200	Social Sciences/English	1000	Student Affairs Office	1900	Bookstore	2800	Science Lab -Temporary Building
300	Fine Arts	1100	Auto Tech	2000	Test Ctr/Tal Srch/Up Bd	2900	Classroom - Temporary Building
400	Natural Science	1200	Welding	2100	Health Sci/Disabled Student	3000	Classroom - Temporary Building
500	English/Math/ Reprographics/Parking	1300	Auto Tech/Humanities	2200	Preschool	3100	Classroom - Temporary Building
600	College Center	1400	Tool Storage	2300	Infant Toddler Center	3200	Offices -Temporary Building
700	Gymnasium	1500	Library Media Center	2400	Human Resources	3300	Imperial County Office of Ed.
		1600	Technology Center	2500	Math Lab Center	❂	Parking/Day Pass
						★	Restroom

8/14/07

Index

A

Academic Freedom Statement 8
Academic Renewal 21
Accreditation 8
District Administration 4, 161
Administration of Justice 35, 121, 140
Admission 13
Agricultural Business Management 121, 140
Agricultural Science 122
Agricultural Crop Science 140
Agricultural Engineering Technology 37
Agriculture 37
Air Conditioning and Refrigeration 39, 122
Alcohol and Drug Studies 40, 122, 141
Allied Health Professions 41
American Indian Studies 43
American Sign Language 44
Anthropology 45, 122
Apprenticeship Training Programs 33, 117
Apprenticeship-Electrician 117
Apprenticeship-Generation Mechanic 118
Apprenticeship-Meter Technician 118
Apprenticeship-Power Lineman 118
Apprenticeship-Relays Technician 119
Apprenticeship-SCADA/Tele Technician 119
Apprenticeship-**S**ubstation-**E**lectrician 120
Art 46, 123
Assessment 13
Associate Degrees 26
AssociateDegree Requirements 138
Astronomy 48
Athletics 12
Attendance and Automatic Withdrawals 24
Automotive Collision Repair 48, 123, 141
Automotive Technology 49, 123, 141

B

Behavioral Science 124
Biology 51
Board Of Trustees 4
Bookstore and College Center 12
Building Construction 53
Building Construction Project Management 142
Business Accounting Technician 124, 142
Business Administration 124
Business Administrative Assistant 125, 142
Business Financial Services 125, 143
Business Management 125, 143
Business Marketing 126, 143
Business Office Technician 126, 144

C

Calendar 5
California State University General Education Breadth 144
Campus Location 8
Campus Map 168
Campus Regulations 24
Certificate Programs 140
Certificates 33
Certification of California State University General Education Breath Requirements 30
Challenge Process 34
Changes in the Catalog 25
Cheating and Plagiarism 22
Chemistry 57
Child Development 57, 126
Child Development Associate Teacher 144
Child Development Administration Specialization 144
Child Development Infant/Toddler Specialization 144
Child Development School-Age Specialization Certificate 144
Communication Arts 127
Computer Information Systems 60, 127, 145
Computer Science 63, 127
Correctional Science 63, 128, 145
Counseling Services 12
Courses of Instruction 35
Court Services Specialist 145
Credit by Examination 20
Credit for Advanced Placement Examinations (AP) 18
Credit for Correspondence and Extension Courses 20
Credit for Military Service 20
Credit for Regional Occupational Program Courses 20
Credit for Upper Division Course Work 20
Credit from Foreign Institutions 20

D

Degrees 11
Disability Services Technician 128, 146
Disabled Student Programs and Services 64
Disclaimer 2

E

Economics 66
Education 66
Educational Master Plan 8
Electrical Trades 67
Electrical Wiring 67
Electronics 68
Eligibility and Certification of Veteran Student Applicants 24
Emergency Medical Services 128, 146
Emergency Medical Technician 68
Emergency Medical Technician - Paramedic 69
Emeritus Faculty 167
Engineering 70
English 71, 129
Enrollment Limitations 16
Environmental Science 79
Expenses 12
Explanation of Fees 12

F

Facilities 6
Faculty 161
Family Educational Rights and Privacy (FERPA) 14
Fees 12
Field Archaeology 146
Financial Aid 11
Fire Science 79
Fire Technology 129, 147
Firefighter I 146
Foreign Transcripts 13
Formal Resolution 23
French 83, 129

G

General Science 129
Geography 84
Geology 85
Grading System 17
Graduation Requirements 26

H

Health Education 85
History 85, 130
Human Relations 131, 147
Humanities 87, 130

I

Informal Resolution 23
Institutional Student Learning Outcomes 8
Instructional Divisions 4
Intersegmental General Education Transfer Curriculum (IGETC) 31, 147

J

Journalism 88, 131

L

Latin American Studies 88
Learning and Tutoring Services 13
Legal Assistant 89, 131, 148
Liberal Studies-General Option 132
Liberal Studies-SDSU Teacher Preparation Option 132
Library Technician 90, 133, 148
Life Science 133

M

Majors 121
Mathematics 91, 133
Mathematics Prerequisite Chart 150
Matriculation Process, 13
Medical Assistant 148
Mission Statement 8
Multimedia and Web Development 148
Music 94, 134

N

Nondiscrimination & Sexual Harrassment Policy 15
Nursing Appendix 151
Nursing-Associate Degree (R.N.) 97, 134
Nursing-Vocational (V.N.) 101, 135, 149
Nutrition 103

O

Other Fees/Charges 12

P

Parking Permit 12
Personal Development 103
Petition And Hearing Process 24
Philosophy 103
Physical Education 104, 136
Physical Science 109, 136
Physics 109
Political Science 110
Pre-Engineering 136
Prerequisite, Corequisite, Advisories on Recommended Preparation and Limitations on Enrollment 34
Probation, Dismissal, Reinstatement 21
Proficiency Enrollment 17
Psychology 110, 137

R

Refund Policy 12
Registration 17
Regulations 13
Religious Studies 112
Residence Requirements 15

S

Scholastic Honors 11
Short-Term Classes 17
Social Science 137
Sociology 112
Spanish 113
Spanish: Native Speaker 138
Spanish: Non-Native 138
Speech 114
Standards of Student Conduct 22
Student Activities 12
Student Complaint Policy 22
Summer Session 34

T

The California State University 29
The College 6
Theatre Arts 114
Transcripts 13
Transfer Credit 18
Transfer Preparation 29
Tuition 12
Types of Courses and Programs 8

U

University Studies 138
Unpaid Financial Obligations 12

V

Vocational Nursing Requirements 149
Vocational/ Occupational Curricula (Applied Sciences) 33
Voluntary Withdrawal 24

W

Water Treatment Technology 114, 139
Welding 115
Welding Technology 139, 149
Work Experience 116

Aerial photos of Imperial Valley College campus looking West.
2009 photo courtesy of Mike Nicholas Photography - El Centro

It has been fifty years since Imperial County voters stepped into polling places throughout the county and overwhelmingly approved establishment of the Imperial Community College District. By an overwhelming vote ratio of twelve to one, the Imperial Valley Junior College District was established in the election of October 6, 1959.

Almost exactly a year later (on October 4, 1960) the people of Imperial County went back to the ballot box and set an all-time state record when they voted by a ratio of thirteen to one to approve bonds to finance construction of a new campus on Aten Road.

When that campus opened about two years later, it served less than 1,000 students. Over the last five decades, IVC has grown into a medium sized institution and today serves more than 8,000 students.

Today, just as it was 50 years ago, there are areas of the campus with landscaping still in beginning stages. That is because the campus is undergoing its most significant expansion in decades. This expansion includes the 70,000 square foot science building funded by Measure L as well as other modernization projects that will carry IVC into its next 50 years of serving students of our region.

IMPERIAL VALLEY COLLEGE
P.O. Box 158
Imperial, CA 92251
www.imperial.edu