

# IMPERIAL VALLEY COLLEGE

General Catalog

2011-2012



- **Communication Skills**
- **Critical Thinking Skills**
- **Personal Responsibility**
- **Information Literacy**
- **Global Awareness**



# IMPERIAL VALLEY COLLEGE

## 2011-2012 General Catalog



### IMPERIAL COMMUNITY COLLEGE DISTRICT

380 E. Aten Road • Imperial, CA 92251-0158 • (760) 352-8320 • [www.imperial.edu](http://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!

**Accredited by**

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Western Association of Schools and Colleges  
10 Commercial Boulevard, Ste. 204  
Novato, CA 94949  
(415) 506-0234

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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 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](http://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.

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# Imperial Valley College Welcomes You

I invite you to become empowered by Imperial Valley College. If you have never been a student here, please look over this catalogue and learn about us. You will find we have a lot to offer. For those of you who are former IVC students seeking to enhance your academic or job skills, you will find many opportunities to enhance your education. You are attending IVC at a very exciting and challenging time.

We have been working through one of the most serious budget crises that have ever impacted our state and unfortunately student access has been hurt. We pledge we will do everything in our power to minimize the impact on our core programs, including transfer education, applied sciences and basic skills students.

In your travels around our beautiful campus, though, you will also notice there is a lot of construction underway. All of this expansion is being funded by two major bond measures that have been passed since 2004: the \$58.6 million Measure L bond adopted in November 2004 and the \$80 million Measure J approved by the voters in 2010.

While it may seem odd this work is continuing during a budget crisis, these bond funds can only be used for construction. They are helping us prepare for the future. Our college is in the midst of one of the most historic transformations in its history, perhaps second only to the actual construction of this beautiful campus on Aten Road in 1962.

In early 2010, we opened our new 70,000 square foot science building, and in a partnership with the county, new transportation facilities. Just this last spring, we added the Juanita Lowe Art Gallery and work will be continuing through Fall and Spring 2011-2012 to transform the 400 building—our old science building—into modern state of the art classrooms.

In addition to the rehabilitation work underway in the central part of the campus, you will see major construction begin soon in the northwest corner of the campus for our new Career Technical Building.

We are also improving technology access for our students through a Federal Grant we received in 2010. The \$3 million federal grant will revamp access to cutting edge technology for students and staff over the next five years. The grant, from the U.S. Department of Education, has been named ATLAS for "Access to Technology Leads to Advancement and Success."

It will expand IVC's technology infrastructure for students by allowing a wide degree of online services including improved interaction between faculty and students, improved efficiency in registration processes and improved access to online faculty lectures.

IVC is about people. Our college--and its accomplishments--is really the sum of the work of more than 300 employees, 8,000 students and countless parents and other supporters in the community. Over the years, thousands of students have graduated from Imperial Valley College. They have transferred to four-year colleges and universities or distinguished themselves in their chosen professions.

So please let IVC empower you and empower your career.

**Victor M. Jaime, Ed.D.**

Interim Superintendent/President

## Board of Trustees



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School District



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## District Administration

- |  |                     |
|--|---------------------|
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| Dean of Science, Math and Engineering                  | Dr. Lianna Zhao     |
| Dean of Student Development and Campus Events          | Sergio Lopez        |

## IMPERIAL VALLEY COLLEGE 2011-2012 CALENDAR

### 2011

August	20 22 27	Friday Monday Saturday	Orientation (Faculty/Staff Service Day) Fall Semester Begins First Day of Saturday Classes, Fall 2011 Semester
September	5	Monday	Holiday (Labor Day), Campus Closed
November	11-12 24-26	Friday-Saturday Thursday-Saturday	Holiday (Veterans Day), Campus Closed Holiday (Thanksgiving), Campus Closed
December	5-10 12-16 19-30	Monday-Saturday Monday-Friday Monday-Friday	Final Exams, Fall 2011 Semester No Classes, Campus Open Winter Recess, Campus Closed

### 2012

January	3-13 16 17 21	Monday-Friday Monday Tuesday Saturday	No Classes, Campus Open Holiday (Martin Luther King's Birthday), Campus Closed Spring Semester 2012 Begins First Day of Saturday Classes, Spring 2012 Semester
February	10-11 20	Friday-Saturday Monday	Holiday (Lincoln's Birthday), Campus Closed Holiday (Presidents' Day), Campus Closed
April	9-14	Monday-Saturday	Spring Recess, Campus Closed
May	5-11 12 21 28	Saturday-Friday Saturday Monday Monday	Final Exams, Spring 2012 Semester Graduation (Faculty/Staff Service Day) Summer Term 2012 Begins Holiday (Memorial Day), Campus Closed
June	21	Thursday	Final Exams, Summer 2012 Term/Last day of Summer Term
July	4	Wednesday	Holiday (Independence Day), Campus Closed

# THE COLLEGE

## ABOUT IMPERIAL VALLEY COLLEGE

The main campus of Imperial Valley College will be celebrating its 50th anniversary in 2012. It opened in September 1962, three years after voters of Imperial County approved formation of the Imperial Community College District and followed up with a bond measure to fund the campus on Aten Road.

As a institution of higher education, IVC has its foundations in two junior colleges that were formed on high school campuses in El Centro and in Brawley in the 1920s. They were consolidated into Central Junior College in 1947, located on the campus of Central Union High School in El Centro. It was renamed Imperial Valley College in 1951 and in 1959 became an independent district.

Over time, IVC has grown and altered itself to meet the circumstances and challenges of a changing region. Serving the post-secondary educational needs of the community has remained the core responsibility through this half century.

IVC today serves 175,000 residents over a large rural area comprised of more than 4,600 square miles. The college serves approximately 9,000 students each semester. It is a major provider of healthcare workers to area hospitals and other medical providers, through its Health Technologies education program that uses sophisticated mannequins and other high tech equipment to train future nurses.

Through its transfer education, computer science, administration of justice, business and other career programs, IVC has trained generations of local professionals and technicians. Studies have shown that graduates holding Associates Degrees generally earn \$8,150 more per year than those with just a high school diploma and twice as much more than a worker without a high school diploma.

A recent economic analysis shows that the total economic impact of IVC on the Imperial Valley region over the next decade will exceed \$5.9 billion with an average annual economic impact over the same period of \$456.6 million. This includes new construction projects to build out the 10 year facilities plan. One in 7 jobs in Imperial County has some connection to IVC, including direct college employees, student workers and graduates of IVC who are in the local workforce.

IVC is located east of the city of Imperial on a 160 acre plot next to Highway 111, the main route from the border at Mexicali, Baja California to the United States. The location of the main campus on Aten Road is in the heart of Imperial County and is within reasonable commuting distance of all communities in the Valley. The college serves seven feeder high school districts, which yield approximately 2,000 graduates a year. Approximately 62 percent of the graduating seniors enroll at IVC immediately after graduation. This impressive community college enrollment is due to a very effective high school outreach program for regular and special populations that consist of counselor visits, orientation, basic skills assessment, advising, and financial aid application assistance, all made available on the high school campuses.

## IVC ROOTS RUN DEEP

The opening of the IVC campus in 1962 was the culmination of years of hard work by the citizens of this county to finance and build a free-standing Imperial Valley College.

Construction had been approved in 1960 when Imperial Community College District residents set an all-time state record, voting by a ratio of 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, classes of Central Junior College 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 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.

A recommendation that a countywide 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 comes 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.

The following Superintendent/Presidents have served the District and College since its formation:

<b>Milo P. Johnson</b>	<b>1960-1963</b>
<b>Dr. Terrel Spencer</b>	<b>1963-1978</b>
<b>Dr. Dan Angel</b>	<b>1978-1981</b>
<b>Dr. John A. DePaoli</b>	<b>1981-1995</b>
<b>Dr. Gilbert M. Dominguez</b>	<b>1996-2002</b>
<b>Dr. Paul Pai</b>	<b>2003-2007</b>
<b>Dr. Ed Gould</b>	<b>2008-2011</b>

In 2004, the college engaged in a shared governance process to develop a new vision that reflected the hopes and desires of the internal and external communities of IVC. This process resulted in the development of the IVC Facilities Master Plan which examined IVC's goals and provided a ten year facilities improvement plan.

Like most community colleges, IVC has experienced rapid growth coupled with declining fiscal resources since 2004. In 2009, a Strategic Plan was developed that prioritized short-term and long-term goals of the institution. The plan stated priorities and the college resources for achieving those priorities. The strategic planning process also updated the IVC Facilities Master Plan. This all inclusive framework enabled the college to identify the most critical and campus-wide priorities and strategic goals for IVC.

### STRATEGIC PLAN

In 2008, IVC formed a strategic planning committee that included representatives from all shared governance constituencies including faculty, classified staff, students, and administration. The purpose of the committee was to develop the IVC's Strategic Plan after receiving input from the Educational Master Plan on the prioritized short-term and long term goals of the college. The committee assessed the stated priorities and the college resources for achieving those priorities.

In 2009, a Strategic Plan was developed which synchronized the goals of the Educational Master Plan. This all inclusive framework enabled the college to identify the most critical and campus-wide priorities and strategic goals for the college as follows:

- Strengthen and expand support services to respond to changing student needs
- Increase access to continuing and higher education opportunities for all
- Enhance professional development
- Adapt to a changing fiscal environment with a sound fiscal strategy
- Strengthen internal and external organizational communications practices

The Strategic Plan addresses how the college can best implement planned improvements based on the institutional resources, required and desired timeframes, and final recommendations and strategies of the Educational Master Plan, all in line with the IVC's mission and vision. Specific objectives were also identified under each of the five goals listed above.

### 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.

### MISSION

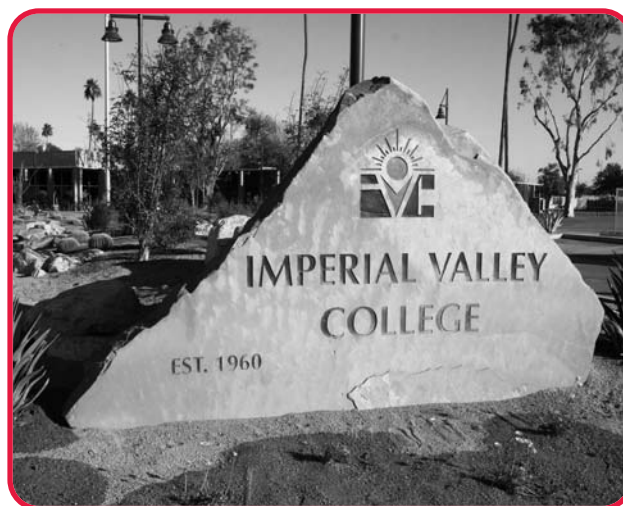
The mission of Imperial Valley College is to foster excellence in education that challenges students of every background to develop their intellect, character, and abilities; to assist students in achieving their educational and career goals; and to be responsive to the greater community.

### 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.**

AJ110	Law Enforcement 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
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**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
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**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 099 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. 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](http://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](http://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

Offering an alternative to the traditional classroom environment, the Distance Education program at Imperial Valley College provides students the option to earn college credits via online or hybrid courses. Delivered through the Internet, these courses are either fully online (with class meetings scheduled only for an orientation and for midterm and final exams); or, they are hybrid courses (with a combination of online work and classroom activities). IVC uses the Etudes course management system (CMS) to deliver online classes. All students interested in taking online classes should have access to a computer connected to the Internet, and they should be comfortable navigating online. On-campus computers are available in the library and in various other labs on the main campus, along with the extended campus site in Calexico. Students enroll in online courses through the regular registration process. Fees and academic credits are the same as they are for traditional face-to-face courses. Please consult the Schedule of Classes for additional details, or visit the Distance Education web site at [www.imperial.edu/de](http://www.imperial.edu/de).

### 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 Campus**

Imperial Valley College provides educational opportunities throughout the entire Imperial County by partnering with local school districts, community-based organizations, and governmental entities to increase educational accessibility for all County residents. Evening classes are currently offered at Central Union High School in El Centro, CA, Desert Valley High School in Brawley, CA, and Calexico High School in Calexico, CA. IVC also operates a comprehensive off-campus center in Calexico, CA, which provides a full range of academic and student services including day and evening classes, academic counseling, financial aid, business services, transcripts, a computer lab, and internet access.

**9. Developmental Preschool & Infant/Toddler Centers**

The Preschool and Infant/Toddler centers are demonstration lab programs that meet the educational, research, and service needs of the institution and community at large. The Preschool program (children 3.5-5 years of age) and the Infant/Toddler program or general childcare program (newborn- three years of age) is located in buildings 2200 and 2300. Service is available to families who meet the California Department of Education qualifications for enrollment. The centers are open Monday - Friday from 7:15-5:30. Breakfast, lunch and snack are provided through the California Adult and Child 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.

**FINANCIAL AID**

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

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](http://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, 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 applications are 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 67% 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 may 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.

**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*	\$36.00 per Unit
Foreign and Non-Resident Tuition*	\$219.00 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, mental health services and other health services to be determined.

**Tuition**

Nonresidents and international students are required to pay tuition charges of \$219.00 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.



*Building the future by funding education*

**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 or visit [www.imperial.edu/scholarships](http://www.imperial.edu/scholarships)

Imperial Valley College Foundation • P.O. Box 158 • Imperial, CA 92251 • (760) 355-6113

### **DROPPING CLASSES**

Students are responsible for dropping their own unwanted classes; however, instructors are required to drop students who are absent for the first class meeting. In addition, students may be dropped for failing to meet prerequisites, or as a result of disciplinary action (See Standards of Student Conduct, page 21). To avoid receiving a failing grade, a student must officially drop a class through WebSTAR by the appropriate deadline. Three deadlines pertain to dropping a class: the first entitles the student to a refund and no record on his or her transcript; the second deadline results in a "W" (withdrawal) rather than an evaluative grade and no refund; and the third deadline is the 60% withdrawal date for calculating return of Title 5 funds for financial aid purposes. Each semester's class schedule lists the deadlines for dropping standard full-semester and short-term classes.

### **IVC PARKING**

Students must purchase and properly display an Imperial Valley College parking permit. Citations are issued by the Imperial Valley College Campus Safety & Parking Control Department. Citations are issued by Parking Control attendants. Motorcycles and motorbikes must also display proper parking permits and must park in designated areas.

Easily accessible parking lots provide parking for students' and visitors' vehicles. Red, Blue, Green curb markings, all designated parking signs, and emergency parking zones are to be observed at all times, day and night. Parking on or in front of ramps is forbidden day or night. Restricted parking is in effect from 7:00 AM to 11:00 PM Monday through Friday of each week. Parking regulations may be found on the college website, or obtained from the Parking Control Office. Parking for individuals with disabilities (blue curb parking) must be observed both day and evening. Permits are to be obtained from the Department of Motor Vehicles and must be displayed when parking in designated blue zone.

Imperial Valley College assumes no liability for vehicles parked on the campus.

### **IVC CAMPUS SAFETY**

Imperial Valley College encourages all persons on campus to practice low risk and defensive behaviors, and to be especially alert at night. Students and others are advised to park in well lighted and frequently trafficked areas, and to always lock their vehicles. Students should not engage in high risk behaviors and are advised to not pick up strangers or accept rides from persons they do not know.

If you suspect that a crime is being committed against persons or property, call 911 or Campus Safety at (760) 483-7411

Safety and security information published in accordance with federal, state and local crime awareness and campus safety is available at [www.imperial.edu](http://www.imperial.edu).

### **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 5:00 p.m., Monday, Thursday and Friday, and 8:00 a.m. and 7:00 p.m. on Tuesday and Friday. A Transfer 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 Hector L. Lopez Student Services Building (Bldg. 100), (760) 355-6543.

### **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 Athletic Conference. The Pacific Coast Athletic Conference includes Grossmont, Mira Costa, Palomar, San Diego City, San Diego Mesa, San Diego Miramar, Cuyamaca, and Southwestern Colleges.

### **LEARNING AND TUTORING SERVICES**

Learning Services includes the Study Skills Center, the Reading/Writing Lab, the Language Lab, the Business Lab, and the Math Lab. These are open to Imperial Valley College students and faculty.

The Study Skills 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

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](http://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.

A school official is:

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.

School officials have a legitimate educational interest if they are:

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 identification, 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](http://www.dfeh.ca.gov), or the U.S. Equal Employment Opportunity Commission Website, [www.eeoc.gov](http://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 Artech, 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 ad-

dress 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 <i>(Formerly CR prior to Fall Semester, 2009)</i>
NP	No Pass (less than satisfactory - D or F)	Not included in GPA <i>(Formerly CR prior to Fall Semester, 2009)</i>
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.	
	<ol style="list-style-type: none"> <li>1. P will reflect the student has earned the equivalent of a grade of C or higher.</li> <li>2. NP will reflect the student has earned the equivalent of a grade of D or F.</li> <li>3. P grades are permissible in the student's major field if permitted or allowed by the division or department.</li> <li>4. Students applying for P/NP grading must adhere to the same class standards or regulations as a student receiving a standard letter grade.</li> <li>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.</li> <li>6. A maximum of 16 units taken on a P/NP basis may be applied toward a degree.</li> </ol>	

**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. In addition, an official evaluation to determine applicability of courses to IVC degree or certificate requirements is essential for effective advisement.

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 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 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 for Military Service

Students who complete at least 180 days of active duty including basic training may receive credit for HE100 (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 Education 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 from Foreign Institutions

Students 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 determination 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 for 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 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.**

<b>AP EXAMINATION</b>	<b>IVC COURSE</b> <b>Minimum Score of 3 required unless otherwise identified.</b>		
Art History	<b>No Course Equivalency</b> 3 semester units	Government & Politics: Comparative	<b>POLS 104</b> 3 semester units
Art Studio (Any Exam)	<b>No Course Equivalency</b> (Credit for the major may be granted upon petition to the Art Dept. and portfolio review.)	History - European History	<b>Score of 3 - HIST 110</b> 3 semester units <b>Score of 4 or 5 - HIST 110 and 111</b> 6 semester units
Biology	<b>BIOL 100</b> 4 semester units	History - United States History	<b>Score of 3 - HIST 120</b> 3 semester units <b>Score of 4 or 5 - HIST 120 and 121</b> 6 semester units
Calculus AB	<b>Score of 3 - MATH 190</b> <b>Score of 4 or 5 - MATH 192</b> 5 semester units	History - World History	<b>Score of 3 - HIST 100</b> 3 semester units <b>Score of 4 or 5 - HIST 100 and 101</b> 6 semester units
Calculus BC	<b>Score of 3 - Math 192</b> <b>Score of 4 or 5 - MATH 194</b> 5 semester units	Italian Language & Culture	<b>No Course Equivalency</b> 3 semester units
Chemistry	<b>Score of 3 or 4 - CHEM 100</b> 4 semester units <b>Score of 5 - CHEM 200</b> 5 semester units	Japanese Language & Culture	<b>No Course Equivalency</b> 3 semester units
Chinese Language & Culture	<b>No Course Equivalency</b> 3 semester units	Latin: Vergil	<b>No Course Equivalency</b> 3 semester units
Computer Science A	<b>Score of 3 - No Course Equivalency</b> 3 semester units <b>Score of 4 or 5 - CS 220</b> 4 semester units	Physics B	<b>PHYS 200</b> 5 semester units
Computer Science AB	<b>Score of 3 - No Course Equivalency</b> 3 semester units <b>Score of 4 or 5 - CS 230</b> 4 semester units	Physics C: Mechanics	<b>PHYS 200</b> 5 semester units
Economics - Macroeconomics	<b>ECON 102</b> 3 semester units	Physics C: Electricity & Magnetism	<b>PHYS 202</b> 5 semester units
Economics - Microeconomics	<b>ECON 101</b> 3 semester units	Psychology	<b>PSY 101</b> 3 semester units
English Language & Composition	<b>Score of 3 or 4 - ENGL 101</b> 3 semester units <b>Score of 5 - ENGL 101 and 201</b> 6 semester units	Spanish Language	<b>Score of 3 - SPAN 200</b> 5 semester units <b>Score of 4 or 5 - SPAN 210</b> 5 semester units
English Literature & Composition	<b>Score of 3 or 4 - ENGL 101</b> 3 semester units <b>Score of 5 - ENGL 101 and 102</b> 6 semester units	Spanish Literature	<b>No Course Equivalency</b> 3 semester units
Environmental Science	<b>ENVS 110</b> 3 semester units	Statistics	<b>MATH 119</b> 4 semester units
French Language	<b>Score of 3 - FREN 201</b> 5 semester units <b>Score of 4 or 5 - FREN 211</b> 5 semester units		
Geography - Human Geography	<b>GEOG 102</b> 3 semester units		
German Language	<b>No Course Equivalency</b> 3 semester units		
Government & Politics: United States	<b>POLS 102</b> 3 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 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 6/15/11)*, 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 21 units may be used toward graduation through this process. No more than 12 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 comprehensive 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.

### REPETITION OF COURSES

1. Students who receive a satisfactory grade ("A," "B," "C," "CR," or "P") may not normally repeat a course. Exceptions exist for recency, extenuating circumstances, and legally-mandated training requirements as a condition of continued paid or volunteer employment. Such exceptions require a repeat petition, available from the Admissions & Records Office.

2. Students who have received an unsatisfactory grade ("D," "F," "NC," or "NP") may repeat the course once. If unsuccessful in the second attempt, the student must file a petition to be considered for a third attempt at the course.

3. Students who have received a "W" may repeat the course twice. Students must file a petition for the fourth attempt at the course.

4. Students who have withdrawn for verified military service ("MW") may repeat course(s) from which they have withdrawn. The "MW" grade does not affect GPA, nor does it count toward the permitted number of repetitions.

### 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

- Two or more years must have passed since the last grade requested for academic renewal was earned.
- 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 prior to the beginning of the next term 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 will not be allowed to take classes the following Semester. 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.

#### 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 NP (and former grade 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 NP (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 will not be allowed to take classes the following Semester. 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.

#### 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 Director of Admissions & Records 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 Dean of Student Development

and Campus Events, the Director 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.

<b>If Complaint is About:</b>	<b>Contact:</b>
Faculty	Division Chair/Associate Dean/Dean
Department Chair	Dean
Administrator	Vice President or President
Another Student	Dean of Student Development and Campus Events

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 Dean of Student Development and Campus Events regarding non-academic matters.

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

Student Complaint forms are available from:

Dean of Student Development and Campus Events	Ext. 6456
Director 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 Dean of Student Development and Campus Events, 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 Dean of Student Development and Campus Events 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 ADMINISTRATIVE WITHDRAWALS**

A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of 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. A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.



Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as excused 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 Veteran's Counselor 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 Veteran's Counselor 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 "NP" 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, 5560 Overland Drive, Suite 310, San Diego, CA 92123 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 5560 Overland Drive, Suite 310, San Diego, CA 92123.

**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.

**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 Veteran's Counselor for necessary forms.

**Units Required for Entitlement of Benefits**

The following number of units are required each semester to certify students for educational and training allowances. Short-term courses are computed proportionately for payment purposes. Please see the Veterans Counselor for more information.

*\*Chapters 32 and 106 only.*

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*

**Post 9/11 (Chapter 33) entitlements differ. Please see the Veteran's Counselor for more information.**

### 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 Counselor for more information.

### Withdrawal/Change of Classes

Veterans are required to notify the campus Veteran's Counselor 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. 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 in Arts Degree and Associate in Science Degree

The awarding of an associate degree at Imperial Valley College represents more than an accumulation of units. The General Education program is a series of courses designed to lead students through patterns of learning experiences that will allow them to develop a breadth of knowledge to gain a command of subject areas and methods of inquiry that characterize the liberally educated person.

Through general education, students are encouraged to increase their skill level and expand their understanding of the physical world and the complex inter-relationships of individuals and groups within their social environments; understand the various modes of inquiry of the major and certificate disciplines; deepen appreciation of artistic and cultural heritages, and become aware of other cultures and times; strengthen their ability to communicate, reason, and critically evaluate information both orally and in writing; acquire a positive attitude toward learning, and develop self-understanding. As a result, they are better able to recognize, understand, and act upon the complex personal, social, scientific, and political issues that confront them daily.

After successfully completing the general education curriculum at Imperial Valley College, students will have a broad understanding of mathematics, science, social science, humanities, and the arts. In addition, students will demonstrate ability to:

- Communicate effectively and analytically in writing, listening and speaking.
- Develop critical and constructive thinking for problem solving and value discrimination.
- Understand social interaction by learning of other cultures and times and the complex interrelationships of individuals and groups within their social environments
- Develop the ability to adapt to new environments and technologies
- Develop responsibility for individual actions and respect for diverse people and cultures.

Graduation from Imperial Valley College with the Associate in Arts or Associate in Science degree is based upon the completion of 60 units of lower division college work, including the requirements listed below. Substitutions for degree requirements may be authorized by the student petition process. An application for the degree must be filed in the Admissions and Records Office during the last semester of attendance (refer to calendar for the college year for deadline).

**Requirements for the Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T)**

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an "associate degree for transfer", a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

**I. ACQUISITION OF MAJOR CONSISTING OF EIGHTEEN UNITS OR MORE 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
- A.S. Alcohol and Drug Studies
- A.A. Anthropology
- A.S. Apprenticeship Training Programs
  - Electrician
  - Generation Mechanic
  - Meter Technician
  - Power Lineman
  - Relays Technician
  - SCADA/Telecommunications Technician
  - Substation - Electrician
- A.A. Art
- A.S. Automotive Collision Repair
- A.S. Automotive Technology
- A.A. Behavioral Science
- A.S. Building Construction Technology
- A.S. Business Accounting Technician
- A.S. Business Administration
- A.S. Business Administrative Assistant
- A.S. Business Financial Services
- A.S. Business Management
- A.S. Business Marketing
- A.S. Business Office Technician
- A.S. Child Development
- A.A. Communications Arts
- A.S. Computer Information Systems
- A.S. Computer Science
- A.S. Correctional Science
- A.S. Dental Assistant (approved 10/28/11)

- A.A. Disability Services Technician
- AS-T Early Childhood Education (approved 10/23/11)
- A.S. Electrical Technology
- A.S. Electrical Trades
- A.S. Emergency Medical Services
- A.S. Energy Efficiency Technology
- 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. Life Science
- A.S. Mathematics
- A.S. Multimedia and Web Development
- A.A. Music
- A.S. Nursing - Registered (RN)
- A.S. Nursing - Vocational (VN)
- A.S. Pharmacy Technician
- A.S. Physical Education
- A.S. Physical Science
- A.S. Pre-Engineering
- A.A. Psychology
- A.A. Social Science
- AA-T Sociology (approved 10/23/11)
- A.A. Spanish: Native Speaker
- A.A. Spanish: Non-Native Speaker
- A.A. University Studies
  - Emphasis in Arts & Humanities
  - Emphasis in Behavioral & Social Sciences
  - Emphasis in Science & Mathematics
- A.S. Water Treatment Systems Technology
- A.S. Welding Technology

*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.*

**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**

*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.*

- 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 or ENGL 101 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 Composition and Rhetoric 3

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

BUS 260 Business Communications 3  
 CIS 101 Introduction to Information Systems 3  
 CIS 202 Programming in C++ 3  
 CIS 212 XHTML, CSS, and JAVASCRIPT 3  
 CIS 214 PHP and MYSQL 3  
 CS 170 Introduction to UNIX/LINUX 3  
 CS 220 Intro to Object-Oriented Prog Using JAVA 4  
 CS 230 Intermediate Object-Oriented Prog Using JAVA 4  
 CS 280 Assembly Language & Machine Organization 4  
 ENGL 111 Reading IV: Anal & Crit Reading 3

ENGL 201 Advanced Composition 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 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 Environmental Science 3  
 AG 120 Soil Science 3  
 AG 140 Principles of Plant Science 4  
 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	ECON 101	Introduction to Microeconomics	3
ENGL 222	Survey of World Literature	3	ECON 102	Introduction to Macroeconomics	3
ENGL 223	Survey of World Literature	3	EDUC/DSPS 240	Understanding Exceptional Students	3
ENGL 224	Survey of English Literature	3	GEOG 102	Cultural Geography	3
ENGL 225	Survey of English Literature	3	GEOG 108	World Regional Geography	3
ENGL/HUM 226	Introduction to Mythology	3	*HIST 100	Early World History	3
ENGL/HUM 230	Intro to Film History & Criticism	3	*HIST 101	Modern World History	3
FREN 100	Elementary French	5	*HIST 110	Early Western Civilization	3
FREN 110	Elementary French	5	*HIST 111	Modern Western Civilization	3
FREN 201	Intermediate French	5	*HIST 120	United States to 1877	3
FREN 211	Intermediate French	5	*HIST 121	United States from 1877	3
FREN 220	Inter French Reading & Writing	3	HIST/LAS 130	Early Latin America	3
FREN 230	Intermediate Conversational French	3	HIST/LAS 131	Modern Latin America	3
FREN 232	Intermediate Conversational French	3	HIST/LAS 132	History of Mexico	3
*HIST 100	Early World History	3	*HIST 140	East Asian History	3
*HIST 101	Modern World History	3	*HIST 150	Survey of African History	3
*HIST 110	Early Western Civilization	3	*HIST 160	Middle East from 600	3
*HIST 111	Modern Western Civilization	3	HIST 220	Women in American History	3
*HIST 140	East Asian History	3	HIST 222	History of California	3
*HIST 150	Survey of African History	3	HIST 223	History of the American West	3
*HIST 160	Middle East from 600	3	LAS/HIST 130	Early Latin America	3
HUM 100	Introduction to The Humanities	3	LAS/HIST 131	Modern Latin America	3
HUM/ENGL226	Introduction to Mythology	3	LAS/HIST 132	History of Mexico	3
HUM/ENGL230	Intro to Film History & Criticism	3	POLS 100	Intro to Political Science	3
+HUM/SPAN 262	Intro to Chicano/a Studies	3	POLS 104	Comparative Politics	3
MUS 100	Introduction to Music Foundations	3	POLS 106	Intro. to International Relations	3
MUS 102	Intro. to Music Lit & Listening	3	PSY 101	Intro to Psychology	3
MUS 104	Intro. to 20th Century Music	3	PSY/CDEV 104	Child Growth and Development	3
MUS 200	History & Literature of Music I	3	PSY/ADS 120	Introduction to Counseling	3
MUS 202	History & Literature of Music II	3	PSY 142	Psychology of Adjustment	3
PHIL 100	Introduction to Philosophy	3	PSY 144	The Psych of Interpersonal Relationships	3
PHIL 102	Introduction to Philosophy	3	PSY 146	Psychology of Human Sexuality	3
PHIL/RELS 104	Ethics	3	PSY 202	Learning	3
RELS 100	Religions of the Modern World	3	PSY 204	Developmental Psychology: Conception to Death	3
RELS/PHIL 104	Ethics	3	PSY/SOC 206	Social Psychology	3
SPAN 100	Elementary Spanish I	5	PSY 208	Abnormal Psychology	3
SPAN 110	Elementary Spanish II	5	SOC 101	Introductory Sociology	3
SPAN 200	Intermediate Spanish I	5	SOC 102	Contemporary Social Problems	3
SPAN 210	Intermediate Spanish II	5	SOC 110	Marriage and the Family	3
SPAN 220	Bilingual Spanish I	5	+SOC/ADS 150	Sociology of Minority Groups	3
SPAN 221	Bilingual Spanish II	5	SOC/PSY 206	Social Psychology	3
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			

+ = Ethnic Studies Course

\* = Courses designated with an asterisk may be counted in one area only.

**D. SOCIAL AND BEHAVIORAL SCIENCES (3 units required)**

AG 160	Food & Fiber in a Changing World	3
ADS/PSY 120	Introduction to Counseling	3
+ADS/SOC 150	Sociology of Minority Groups	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 120	Introduction to Archaeology	3
CDEV 103	Children, Family and Community	3
CDEV/PSY 104	Child Growth and Development	3
DSPS/EDUC 240	Understanding Exceptional Students	3

**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 there 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](http://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 grad-

uation 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 information on how to apply 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](http://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)	GEOG 100 (L) (4)
+CHEM 100 (L) (4)	+GEOG 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 (3)	MATH 220 (3)
+MATH 150 (4)	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 120 (3)
ART 102 (3)	MUS 122 (3)
ART 104 (3)	MUS 200 (3)
ART 106 (3)	MUS 202 (3)
ENGL/HUM 230 (3)	MUS 220 (3)
+MUS 100 (3)	MUS 222 (3)
MUS 102 (3)	THEA 100 (3)
MUS 104 (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 270 (3)	PHIL 100 (3)
FREN 100 (5)	PHIL 102 (3)
FREN 110 (5)	PHIL/RELS 104 (3)
FREN 201 (5)	RELS 100 (3)
FREN 211 (5)	RELS/PHIL 104 (3)

FREN 220	(3)	SPAN 100	(5)
FREN 230	(3)	SPAN 110	(5)
FREN 232	(3)	+SPAN 200	(5)
*HIST 100	(3)	+SPAN 210	(5)
*HIST 101	(3)	+SPAN 220	(5)
*HIST 110	(3)	+SPAN 221	(5)
*HIST 111	(3)	SPAN 222	(3)
*HIST/LAS 130	(3)	SPAN 225	(3)
*HIST/LAS 131	(3)	SPAN/HUM 262	(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 140	(3)
AJ 106	(3)	*HIST 150	(3)
AG 160	(3)	*HIST 160	(3)
ADS/SOC 150	(3)	*HIST 220	(3)
AIS/ANTH 104	(3)	*HIST 222	(3)
AIS/ANTH 106	(3)	*HIST 223	(3)
AIS/ANTH 108	(3)	*HIST/LAS 225	(3)
ANTH 102	(3)	*LAS/HIST 130	(3)
ANTH/AIS 104	(3)	*LAS/HIST 131	(3)
ANTH/AIS 106	(3)	LAS/HIST 132	(3)
ANTH/AIS 108	(3)	LAS/HIST 225	(3)
ANTH 120	(3)	POLS 100	(3)
CDEV 103	(3)	*POLS 102	(3)
*+CDEV/PSY 104	(3)	POLS 104	(3)
ECON 101	(3)	POLS 106	(3)
ECON 102	(3)	PSY 101	(3)
GEOG 102	(3)	*+PSY/CDEV 104	(3)
GEOG 108	(3)	PSY 142	(3)
*HIST 100	(3)	PSY 202	(3)
*HIST 101	(3)	PSY/SOC 206	(3)
*HIST 110	(3)	PSY 208	(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)
*HIST/LAS 131	(3)	SPCH 120	(3)
HIST/LAS 132	(3)		

**E. LIFELONG UNDERSTANDING AND SELF-DEVELOPMENT**

(3 semester or 4 quarter units)

CDEV 101	(3)	PSY 144	(3)
*+CDEV/PSY 104	(3)	PSY 146	(3)
HE 102	(3)	+PSY 204	(3)
COUN 100	(3)	SOC 110	(3)
*+PSY/CDEV 104	(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 270	(3)	*LAS/HIST 132	(3)
FREN 110	(5)	PHIL 100	(3)
FREN 201	(5)	PHIL 102	(3)
FREN 211	(5)	PHIL/RELS 104	(3)
FREN 220	(4)	RELS 100	(3)
*HIST 100	(3)	RELS/PHIL 104	(3)
*HIST 101	(3)	*SPAN 110	(5)
*HIST 110	(3)	*SPAN 200	(5)
*HIST 111	(3)	*SPAN 210	(5)
*HIST/LAS 130	(3)	*SPAN 220	(5)
*HIST/LAS 131	(3)	SPAN 221	(5)
*HIST/LAS 132	(3)	SPAN 225	(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 160	(3)
AIS/ANTH 104	(3)	HIST 220	(3)
AIS/ANTH 106	(3)	*HIST 222	(3)
AIS/ANTH 108	(3)	*HIST 223	(3)
ANTH 102	(3)	*HIST/LAS 225	(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)
ANTH 120	(3)	*LAS/HIST 225	(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)	SPCH 100	(3)
*HIST 150	(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.

# 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. Responsibility for filing a petition to receive a certificate rests with the student. This petition is to be filed with the Admissions and Records Office (see petition form for deadlines).

### Certificates are offered in the following areas:

Administration of Justice  
 Agricultural Business Management  
 Agriculture Crop Science  
 Air Conditioning and Refrigeration Technology  
 Alcohol and Drug Studies  
 Apprenticeship Training Programs  
 - Electrician  
 - Generation Mechanic  
 - Meter Technician  
 - Power Lineman  
 - Relays Technician  
 - SCADA/Telecommunications Technician  
 - Substation - Electrician  
 Automotive Collision Repair  
 Automotive Technology  
 Building Construction Technology  
 - Carpentry Specialization  
 - Concrete Masonry Specialization  
 - Project Management Specialization

Business Accounting Technician  
 Business Administrative Assistant  
 Business Financial Services  
 Business Management  
 Business Marketing  
 Business Office Technician  
 California State University General Education Breadth (CSU GE-B)  
 Child Development  
 - Administration Specialization  
 - Associate Teacher  
 - Infant/Toddler Specialization  
 - School-Age Specialization  
 Computer Information Systems  
 Correctional Science  
 Court Services Specialist  
 Dental Assistant  
 Disability Services Technician  
 Electrical Technology  
 - Electrical Wiring Specialization  
 - Electronics Specialization  
 - Solar Energy Specialization  
 Electrical Trades  
 Emergency Medical Services  
 Emergency Medical Technician  
 Emergency Medical Technician - Paramedic  
 Energy Efficiency Technology  
 Firefighter I  
 Fire Technology  
 Human Relations  
 Intersegmental General Education Transfer Curriculum (IGETC)  
 Legal Assistant  
 Medical Assistant  
 Multimedia and Web Development  
 Nursing - VN (Vocational Nurse)  
 Pharmacy Technician  
 Water Treatment Systems Technology  
 - Wastewater Treatment Specialization  
 Welding Technology

## SKILLS AWARD

Skills Award certifications are typically short-term programs requiring fewer than 18 units of course work, that introduce students to one aspect of a trade or occupation. The Skills Award is a good choice for students who wish to test a potential career area, who want to be competitive for entry level jobs in one part of an industry, or who prefer to enter the industry and pursue further education in that field after they start working.

Skills Award courses are designed to prepare students for the first step in a career ladder. In some cases, the courses completed for the skills award can also be applied toward a certificate of achievement and/or an associate degree.

Eligibility for a Skills Award includes earning a minimum grade of "C" or "P" in every course. The Skills Award will be noted on the student transcript with the area of study identified. To apply for a Skills Award, students should obtain the appropriate form from the Admissions and Records office.

# 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:

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

- The prerequisite or corequisite has not been established in accordance with the district policy.
- The prerequisite or corequisite is in violation of Title 5.
- The prerequisite or corequisite is either unlawfully discriminatory or is being applied in an unlawfully discriminatory manner.
- The student has the knowledge or ability to succeed in the course or program despite not meeting the prerequisite or corequisite.
- 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 upheld 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 Department 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 Department 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 Department Chairperson shall forward the student petition and all attachments to the Dean of Enrollment Services 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.

### 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. (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)

#### Law Enforcement 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 Report Writing

**Term Hours: 54 Lec, 0 Lab**

#### Letter Grade only

Recommended Preparation: Completion of ENGL 089 and ENGL 101 with a grade of "C" or 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. (CSU)

### AJ 121 (3.0 UNITS)

#### Law Enforcement Field Operations

**Term Hours: 54 Lec, 0 Lab**

#### Letter Grade only

Recommended Preparation: Completion AJ 100, ENGL 099 and ENGL 089 with grades 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, note taking 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 "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. 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)****Regular Basic Course Modular Format 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. All students entering Reserve Officer Level III classes must acquire a DOJ Clearance letter or be employed by a sponsoring law enforcement agency prior to the first day of class. DOJ Clearance letters are invalid after 90 days.

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)****Regular Basic Course Modular Format Level II****Term Hours: 243 Lec, 0 Lab****Letter Grade or Pass/No Pass**

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. Successful completion, within the last three years of First Aid and CPR training for public safety personnel as prescribed by the Emergency Medical Services Authority (EMSA) and set forth in the California Code of Regulations, Title 22, Division 9, Chapter 1.5 100005-100028. No felony or domestic violence convictions. Valid California driver's license. Ability to successfully participate in physical requirements of course. All students entering Reserve Officer Level II classes must acquire a DOJ Clearance letter or be employed by a sponsoring law enforcement agency prior to first day of class. DOJ Clearance letters are invalid after 90 days.

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 Pass/No Pass**

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, nondegree 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 Pass/No Pass**

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 Pass/No Pass**

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 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, marketing, global trade, and consumer issues of the major vegetable crops grown in California. (CSU)

**AG 260 (3.0 UNITS)****Plant Protection and Integrated Pest Management****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

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



**AG 270 (3.0 UNITS)****Weeds and Weed Control****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

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

**AIR 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: ACR 101 and ACR 103.

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: ACR 101, ACR 102 and ACR 103.

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: ACR 101, ACR 102, ACR 103, and ACR 104.

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: ACR 105

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.

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: AHP 100, BIOL 090, MATH 080, and 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**

Prerequisites: AHP 100.

Recommended Preparation: BIOL 090, MATH 080, and BUS 164.

This course explores the anatomy, pathophysiology, and related pharmacology treatments for diseases and conditions of the respiratory, cardiovascular, renal, integumentary, reproductive and immune systems. The classification and indication for generic and trade name medications for these systems will be explored. Accurate use of medical vocabulary and descriptive terms is expected. (CSU)

**AHP 125 (3.0 UNITS)****Pharmacy Technician Body Systems II****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

Prerequisite: AHP 100.

This course explores the anatomy, pathophysiology and related pharmacology treatments for diseases and conditions of the endocrine, gastrointestinal, hematological, nervous, musculoskeletal, as well as the eyes, ears, nose and throat. The classification and indication for generic and trade name medications for these systems will be explored. Accurate use of medical vocabulary and descriptive terms is expected. (CSU)

**AHP 130 (3.0 UNITS)****Calculation and Pharmacology for Pharmacy Technicians****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

Recommended Preparation: MATH 080.

This course is designed to prepare students for pharmacology calculations related to dosage, measurements of strength, and safe preparation of medication. There is a focus on unit-cancellations for solving pharmacy situation problems. Principles of pharmacology are utilized with an emphasis on the classification, indication, interaction, and common side effects of major drug classes. (CSU)

**AHP 140 (4.5 UNITS)****Pharmacy Technician Operations****Term Hours: 63 Lec, 18 Lab****Letter Grade only**

Prerequisites: AHP 100.

Recommended Preparation: AHP 120 and AHP 125

This course is designed to prepare the student for the technical and operational aspects of drug distribution in the ambulatory, inpatient, extended care, and ambulatory care settings. The course includes a review of Federal regulations, State regulations, codes of ethics, and standards pertaining to the practice of pharmacy. Practice site regulations, policies and procedures regarding prescriptions and medication orders will be explored. Various techniques, equipment and supplies for drug administration will be discussed and demonstrated. Mandatory maintenance and screening of equipments and packaging requirements will be reviewed. Application of aseptic techniques and use of the laminar flow hood in the preparation of sterile products is demonstrated. Pharmaceutical industry procedures for obtaining pharmaceuticals including purchasing policies, procedures and practices will be discussed and the role of the pharmacy technician 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 Pass/No Pass**

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 Pass/No Pass**

Recommended Preparation: AMSL 100.

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 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, UC)

**ARABIC****ARAB 100 (5.0 UNITS)**  
**Elementary Arabic****Term Hours: 90 Lec, 0 Lab**  
**Letter Grade or Pass/No Pass**

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, UC)

**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: Elisabetta 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. (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. (CSU, UC)

**ART 120 (3.0 UNITS)**  
**Drawing I****Term Hours: 36 Lec, 72 Lab**  
**Letter Grade only**

A basic course in drawing from observation as an essential means of expression. The focus is on contour line drawing, mass and line gesture, and value structure in creating the illusion of form. Both dry and wet media are used. Additional materials fee applies. (CSU, UC)

**ART 122 (3.0 UNITS)****Drawing II****Term Hours: 36 Lec, 72 Lab****Letter Grade only**

Prerequisite: ART 120 with a minimum grade of C. A continuation of Drawing I, a course in basic observational drawing, with the addition of color using various dry and wet media. Additional materials fee applies. (CSU, UC)

**ART 124 (3.0 UNITS)****Painting I****Term Hours: 36 Lec, 72 Lab****Letter Grade only**

Recommended Preparation: ART 110 and ART 120.

Basic techniques of painting will be addressed including an introduction to color theory and basic elements of composition as applied to this medium. Subject matter includes still life and landscape, plus some imaginative subjects created through idea generation. Additional materials fee applies. (CSU, UC)

**ART 126 (3.0 UNITS)****Painting II****Term Hours: 36 Lec, 72 Lab****Letter Grade only**

Prerequisite: ART 124 with a minimum grade of C.

A continuation of Art 124. Includes further development of the understanding of contemporary art issues and topics. Additional materials fees applies. (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. (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. (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. (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. (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. (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. (CSU)

**ART 220 (3.0 UNITS)****Drawing III****Term Hours: 36 Lec, 72 Lab****Letter Grade only**

Prerequisite: ART 120 and ART 122 with a minimum grade of C. A continuation of Art 122 with a focus on developing drawing as a terminal medium. Additional materials fee applies. (CSU, UC)



**ART 222 (3.0 UNITS)****Drawing IV****Term Hours: 36 Lec, 72 Lab****Letter Grade only**

Prerequisites: ART 120, ART 122 and ART 220 with a minimum grade of C. A continuation of Art 220 with a focus on advanced techniques to develop drawing as a terminal medium, and develop portfolio for transfer or professional endeavors. Additional materials fee applies. (CSU, UC)

**ART 224 (3.0 UNITS)****Painting III****Term Hours: 36 Lec, 72 Lab****Letter Grade only**

Prerequisites: ART 124 and ART 126 with a minimum grade of C. A continuation of ART 126. Advanced studio problems geared toward the development of individual style in painting. Additional materials fee applies. (CSU, UC)

**ART 226 (3.0 UNITS)****Painting IV****Term Hours: 36 Lec, 72 Lab****Letter Grade only**

Prerequisites: ART 124, ART 126 and ART 224 with a minimum grade of C.

Recommended Preparation: ART 110 and ART 120.

A continuation of ART 224. Advanced studio problems in painting. Students will develop paintings with a unified theme to prepare portfolio for transfer or professional endeavors. Additional materials fee applies. (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. (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. (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. (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. (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. (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. (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)

## 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 BODY AND PAINT

### 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

### AUT 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, non-degree applicable)

### AUT 075 (3.0 UNITS)

#### Basic Shop Skills

Term Hours: 54 Lec, 0 Lab

Letter Grade only

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

### AUT 085 (3.0 UNITS)

#### Automotive Maintenance and Repair

Term Hours: 36 Lec, 54 Lab

Letter Grade only

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

### AUT 100 (3.0 UNITS)

#### Small Gasoline Engines

Term Hours: 36 Lec, 36 Lab

Letter Grade only

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

### AUT 110 (4.0 UNITS)

#### Engine Technology

Term Hours: 36 Lec, 108 Lab

Letter Grade only

For the student with little or no internal combustion engine background. Design, construction, and mechanical function of internal combustion engines including lubricating, cooling, fuel, and electrical systems, and an understanding of the basic sciences relevant to such topics as internal combustion and energy conversion. (CSU)

**AUT 120 (4.0 UNITS)****Automotive Machine Shop****Term Hours: 36 Lec, 108 Lab****Letter Grade only**

Recommended Preparation: 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)

**AUT 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)

**AUT 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)

**AUT 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)

**AUT 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)

**AUT 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)

**AUT 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)

**AUT 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)

**AUT 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 differential 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)

**AUT 210 (3.0 UNITS)****Automotive Air Conditioning****Term Hours: 36 Lec, 54 Lab****Letter Grade only**

Recommended Preparation: AUT 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)

**AUT 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)

**AUT 230 (3.0 UNITS)****Emissions Control and Computer Systems****Term Hours: 36 Lec, 54 Lab****Letter Grade only**

Recommended Preparation: AUT 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 AUT 160 and AUT 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)

**AUT 231 (4.0 UNITS)****Auto Emission Control System****Term Hours: 36 Lec, 108 Lab****Letter Grade only**

Recommended Preparation: AUT 170, AUT 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)

**AUT 235 (3.0 UNITS)****Automotive Electrical/Electronic Instruments****Term Hours: 36 Lec, 54 Lab****Letter Grade only**

Recommended Preparation: AUT 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)

**AUT 240 (3.0 UNITS)****Diesel Engine Tune-up****Term Hours: 36 Lec, 54 Lab****Letter Grade only**

Prerequisite: AUT 110

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

**AUT 250 (4.0 UNITS)****Electronic Automatic Transmissions****Term Hours: 36 Lec, 108 Lab****Letter Grade only**

Prerequisite: AUT 220

Advanced study using four major domestic and foreign automatic transmissions, with emphasis on practical rebuilding of automatic transmissions, including locking torque converters and 4-speed overdrive and front wheel drive transaxles. Applied shop practices for advanced students who wish to refine technical skills prior to obtaining employment in the industry. (CSU)



## BIOLOGY

### BIOL 080 (3.0 UNITS)

#### Anatomy and Physiology Review

**Term Hours: 54 Lec, 0 Lab**

**Pass/No Pass**

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 VN 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 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.

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 a grade 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)

**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)

**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/RN 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/RN 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 101 (3.0 UNITS)****Safety Standards (Cal/OSHA) 30-Hour Card****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

Safety Standards is a course designed to afford the student the opportunity to earn the General and Construction Industry OSHA 30-Hour Card. The course will provide the student with essential instruction and learning allowing the student to develop and master knowledge and skills associated with safety and health recognition and prevention at a worksite. Topics include: OSHA and Cal OSHA standards, hazard analysis and identification, acceptable safety practices, proper selection and use of personal protective equipment, job hazard analysis and mitigation measures, hazard communication standards, and inspections, citations, and penalties. (Nontransferable, AA/AS degree only)

**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 115 (3.0 UNITS)****Energy Fundamentals****Term Hours: 36 Lec, 54 Lab****Letter Grade only**

Recommended Preparation: BLDC 110.

This course in an introductory study in home performance concepts, California Energy Codes. Instruction will be based on blower door and duct tester standards, infrared camera monitoring, shell sealing standards, duct system analysis, repair and sealing standards. Cost and benefit analysis of sealing repairing and retrofitting for energy losses. Included will be the discussion on the leading organizations that influence sustainable buildings such as energy star and LEED, their design, and efficiency. Learning opportunities will be enhanced through a combination of lecture and laboratory activities. (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 155 (3.0 UNITS)****Solar Thermal and Water Efficiency****Term Hours: 18 Lec, 108 Lab****Letter Grade only**

Recommended Preparation: BLDC 110

This course is an introductory study in solar thermal concepts, water conservation, water efficiency retrofits, California Energy Codes. Instruction will be based on solar thermal collector installation and operation and water saving devices and equipment. Included will be the discussion on energy saving opportunities with the use of various types of collectors such as storage or tank-type and tankless systems. Cost and benefit analysis will be studied of various water heating systems along with energy conservation and conversion. Learning opportunities will be enhanced through a combination of lecture and laboratory activities. (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 175 (3.0 UNITS)****Home Performance Retrofits****Term Hours: 36 Lec, 54 Lab****Letter Grade only**

Recommended Preparation: BLDC 110

This course is an introductory study in home performance concepts, California Energy Codes, green building in residential construction. Instruction will be based on types of energy efficient materials, inspections, construction applications and material retrofitting. Cost and benefit analysis of retrofitting costs. Included will be the discussion on the leading organizations that influence sustainable buildings such as energy star and LEED, their design, and efficiency. Learning opportunities will be enhanced through a combination of lecture and 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. (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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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. (Non-transferable, 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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 230 (3.0 UNITS)****Introduction to Governmental Accounting****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

Prerequisite: BUS 210 with a grade of "C" or better.

Theory and practice of accounting for governmental entities. Focus on recording and reporting transactions. Topics include accounting for governmental, proprietary-type, and fiduciary funds; budgetary accounting; and governmental financial statements. (CSU)

**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 with a grade 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)

### **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)

**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)

**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)

**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)

**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.)

**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)

**CDEV 106 (3.0 UNITS)****Observation and Assessment****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

Prerequisites: CDEV 104 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**

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)

**CDEV 121 (2.0 UNITS)****Art for Young Children****Term Hours: 36 Lec, 0 Lab****Letter Grade only**

Develop aesthetic and perceptual awareness in the toddler and pre-school 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)

**CDEV 122 (2.0 UNITS)****Science and Math for Young Children****Term Hours: 36 Lec, 0 Lab****Letter Grade only**

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)

**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)

**CDEV 124 (2.0 UNITS)****Creative Cooking for Children****Term Hours: 36 Lec, 0 Lab****Letter Grade only**

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**

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)

**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)

**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)

**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)

**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)

**CDEV 210 (3.0 UNITS)****Administration and Supervision****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

Prerequisites: CDEV 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)

**CDEV 211 (3.0 UNITS)****Advanced Management Functions****Term Hours: 36 Lec, 54 Lab****Letter Grade only**

Prerequisites: CDEV 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)

**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)

**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)

**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)

**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)

**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)

**COMPUTER INFORMATION SYSTEMS****CIS 050 (1.0 UNIT)****Online Learning - An Orientation****Term Hours: 9 Lec, 27 Lab****Pass/No Pass 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 Pass/No Pass**

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****Pass/No Pass 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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 124 (1.0 UNIT)****Excel I****Term Hours: 18 Lec, 0 Lab****Letter Grade or Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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)****Web Development Tools****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 160 (4.0 UNITS)****CISCO IT Essentials: Hardware and Software****Term Hours: 54 Lec, 54 Lab****Letter Grade only**

Prerequisite: CIS with a grade of "C" or better.

This course is the first course in the CISCO Networking Academy and covers the fundamentals of computer hardware and software as well as advanced concepts. Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system, and troubleshoot using system tools and diagnostic software. Students will also be able to connect to the Internet and share resources in a network environment. (Nontransferable, AA/AS degree only)

**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: CIS 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)

**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)

**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)

**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 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 089 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)

**COUNSELING****COUN 061 (1.0 UNIT)****Survival Skills for College Success****Term Hours: 18 Lec, 0 Lab****Pass/No Pass 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. (Non-transferable, AA/AS degree only.)

**COUN 100 (3.0 UNITS)****Personal and Career Development****Term Hours: 54 Lec, 0 Lab****Letter Grade or Pass/No Pass**

This comprehensive course explores the issues and tasks related to personal and career development over the lifespan. Applying psychological, sociological, and physiological principles, students will utilize the career planning process to begin to prepare effectively for work in the 21st century global economy. Topics include assessment of interests, personality characteristics, transferable skills, and work values, career exploration, and decision-making strategies. Job search preparation includes development of a resume, cover letter,

and interviewing skills. Prepares new and re-entry students to explore, identify, and integrate career and life planning goals. Emphasis is placed on the importance of actively managing one's career to achieve success in all life roles. A \$6.00 lab fee will be charged. (CSU)

**COUN 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, UC)

**DENTAL ASSISTANT****DA 101 (3.0 UNITS)****Introduction to Dental Assisting****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

Introduction to the dental assistant, dental terminology, basic anatomy of the oral cavity, dental anatomy and physiology, oral embryology, tooth morphology, classifications of restorations, preliminary oral inspection, charting existing conditions of the hard and soft tissues. Course involves taking and recording vital signs and systemic conditions which may affect dental care. (Nontransferable, AA/AS degree only)

**DA 102 (3.0 UNITS)****Beginning Radiology****Term Hours: 36 Lec, 54 Lab****Letter Grade only**

This course teaches the fundamentals of radiation safety and the operation of dental radiology equipment, along with the clinical application of procedures involved in exposing, processing, mounting and interpreting dental radiographs. (Nontransferable, AA/AS degree only)

**DA 103 (3.0 UNITS)****Dental Materials for the Dental Assistant****Term Hours: 36 Lec, 54 Lab****Letter Grade only**

This course teaches the composition and use of restorative materials, impressions materials, pouring dental impressions, the procedural steps in composite resin material, temporary restorative materials used in dentistry and the role of the dental team in the various procedures performed. Applicable lab fees will apply. (Nontransferable, AA/AS degree only)

**DA 104 (1.0 UNIT)****Occupational Health for the Dental Assistant****Term Hours: 18 Lec, 0 Lab****Letter Grade only**

This course teaches the Dental Assistant the rules and regulations in the dental office that are required by the Federal, State and local regulations concerning the handling of hazardous chemical, employee safety and waste management. (Nontransferable, AA/AS degree only)

**DA 105 (2.0 UNITS)****Introduction to Chairside Dental Assisting****Term Hours: 18 Lec, 54 Lab****Letter Grade only**

Introduction to the chairside dental assistant, preparing the patient for dental treatment, positioning of patient, operator and assistant for four-handed and six-handed dentistry. Obtaining patient health history and vital signs, treatment planning and data gathering. Instrument grasp/transfer, oral evacuation and retraction. Identification and use of hand instruments, equipment maintenance, tub, tray and cassette set-ups of the basic general dental procedures. (Nontransferable, AA/AS degree only)

**DA 106 (2.0 UNITS)****Dental Specialties****Term Hours: 18 Lec, 54 Lab****Letter Grade only**

Instruction in assisting and instrumentation for the following specialties in dentistry: orthodontics, endodontics, periodontics, removable prosthodontics, pediatric dentistry and oral maxillofacial surgery, and assisting in the administration of nitrous oxide. (Nontransferable, AA/AS degree only)

**DA 107 (2.0 UNITS)****Advanced Dental Assisting****Term Hours: 18 Lec, 54 Lab****Letter Grade only**

Development of the pre-clinical skills required for the registered dental assistant. Students are required to meet standards of competency for each registered dental assistant task. Preparation for the practical component of the California Registered Dental Assistant examination. Mannequins are used for most instruction. (Nontransferable, AA/AS degree only)

**DA 108 (3.0 UNITS)****Practice Management for the Dental Assistant****Term Hours: 36 Lec, 54 Lab****Letter Grade only**

Instruction in the non-clinical functions which dental assistants are required to perform with emphasis on: financial arrangements, collection techniques, completing insurance forms, maintaining current records, office mail, dental office computer systems, group practice, inventory, marketing, purchasing, payroll tax records, disbursements and petty cash. Students will learn soft dent integrated record system. (Nontransferable, AA/AS degree only)

**DA 109 (3.0 UNITS)****Clinical Dental Experiences****Term Hours: 18 Lec, 108 Lab****Letter Grade only**

Practice in working in a private practice in all fields of dentistry. Experiences in chairside and office management techniques, with emphasis on performance of the Registered dental assistant tasks. Bi-weekly seminars to evaluate and review clinical application and experiences. Written reports are required. (Nontransferable, AA/AS degree only)

**DA 110 (1.0 UNIT)****Ethics and Jurisprudence****Term Hours: 18 Lec, 0 Lab****Letter Grade only**

The study of the fundamental factors necessary to be employed. Practice within the ethical and legal framework of the State Dental Practice Act, and the Code of Ethics and the American Dental Association. (Nontransferable, AA/AS degree only)

**DA 111 (2.0 UNITS)****Dental Assistant Seminar****Term Hours: 36 Lec, 0 Lab****Letter Grade only**

Review and preparation for the Dental Assisting Certificate Examination. (Non-Transferable, AA/AS degree only)

**DA 112 (2.0 UNITS)****Dental Health Education****Term Hours: 18 Lec, 54 Lab****Letter Grade only**

Course teaches the principle and practice prevention and control of dental disease with emphasis on nutrition, plaque control, motivation, and chairside patient education. (Nontransferable, AA/AS degree only)

## DISABLED STUDENT PROGRAMS AND SERVICES

**DSPS 005 (1.0 UNIT)****Recreation for Special Groups****Term Hours: 0 Lec, 36 Lab****Pass/No Pass 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****Pass/No Pass 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****Pass/No Pass 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, non-degree applicable)

**DSPS 020 (3.0 UNITS)**  
**Math for Students with Learning Differences****Term Hours: 54 Lec, 0 Lab****Letter Grade or Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

Recommended Preparation: DSPS 022.

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

lems 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 Pass/No Pass**

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 Pass/No Pass**

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, non-degree applicable)

**DSPS 032 (4.0 UNITS)**  
**Reading and Spelling for Students with Learning Differences****Term Hours: 72 Lec, 18 Lab****Letter Grade or Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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**  
**Pass/No Pass 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**  
**Pass/No Pass 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**  
**Pass/No Pass 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**  
**Pass/No Pass 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**  
**Pass/No Pass 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**  
**Pass/No Pass 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**  
**Pass/No Pass 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

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 Pass/No Pass**

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**

**Pass/No Pass 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.

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 para-professionals 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)

**EWIR 151 (4.0 UNITS)****Solar Electrical Systems****Term Hours: 72 Lec, 0 Lab****Letter Grade only**

Prerequisite: EWIR 150 with a grade of "C" or better.

Recommended Preparation: ELTR 110

This course focuses on the National Electrical Code (NEC), including grid and stand-alone calculations, grounding considerations and wiring sizing. Evaluate system performance under various operating conditions. Residential system design elements, including inter-row shading, controller, battery and inverter selection, data monitoring solution, including system design exercises. (CSU)

**EWIR 160 (4.0 UNITS)****Alternative Energies****Term Hours: 72 Lec, 0 Lab****Letter Grade only**

Recommended Preparation: ELTR 120 and EWIR 110.

This course provides the student with instruction in basic principles of electrical Alternative Energy Systems. Instruction will include an introduction to energy usage, Hydropower, Solar Energy, Wind Energy, and sustainable systems. The interpretation of related electrical/electronic blueprints, diagrams, and schematics used in alternative energy systems installations. Energy efficiency principles of these systems will be the focus of instruction. (CSU)



## ELECTRONICS

### ELTR 120 (4.0 UNITS)

#### Electronic Devices

Term Hours: 54 Lec, 54 Lab

Letter Grade only

Recommended Preparation: MATH 080

This course covers a study on basic electronics laws and components in dc circuits. It emphasizes voltage, current, and resistance relationships. An introduction to magnetism is also included. (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 ELTR 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 by the Imperial County Emergency Medical Services Agency and is within the training guidelines of the California Code of Regulations and the California Fire Service Training and Education Systems (CFSTES). (Same as 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 010 (4.0 UNITS)****English Composition - Accelerated****Term Hours: 54 Lec, 36 Lab****Letter Grade only**

Accelerated class that prepares students for transfer-level English composition and associate-degree classes. Emphasizes and develops skills in critical reading and academic writing. Strongly recommended: participation in the writing placement (Accuplacer) process. (Nontransferable, nondegree applicable)

**ENGL 040 (5.0 UNITS)****Communication Skills for Healthcare Professionals I****Term Hours: 90 Lec, 0 Lab****Letter Grade only**

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

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

**ENGL 041 (5.0 UNITS)****Communication Skills for Healthcare Professionals II****Term Hours: 90 Lec, 0 Lab****Letter Grade only**

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

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

**ENGL 051 (1.0 UNIT)****Individualized Writing Skills****Term Hours: 0 Lec, 36 Lab****Pass/No Pass only**

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. Individual assignments are given for improving problem areas in grammar, usage, spelling, and rhetorical skills. Students can also work to eliminate non-English language interference. The course is designed to assist students in any course(s) writing skills. The 36 required hours will be set by the student and must be completed in the Reading/Writing Lab. Students must check in the lab in order to receive credit for the hours they have worked. This class will begin in the fourth week of the regular semester, and students must check in at the Reading/Writing Lab during the fourth or fifth week of the semester. Maximum credit four units. (Nontransferable, nondegree applicable)

**ENGL 052 (1.0 UNIT)****Individualized Reading Skills****Term Hours: 0 Lec, 36 Lab****Pass/No Pass 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 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 086 (3.5 UNITS)****Reading II: Basic Development****Term Hours: 54 Lec, 18 Lab****Letter Grade only**

Prerequisite: ESL 025 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. (Non-transferable, 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 III: 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: ESL 005 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 ESL 005. 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, non-degree 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)****Composition and Rhetoric****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 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 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 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, observe, and think critically about 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 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.*

**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****Pass/No Pass 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 greater 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 is 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 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, non-degree 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 a recommended supplement for students in Low Intermediate and Intermediate ESL courses. (Nontransferable, non-degree 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 envi-

ronments. 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 placed 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 9****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 by the Imperial County Emergency Medical Services Agency and is within the training guidelines of the California Code of Regulations and the California Fire Service Training and Education Systems (CFSTES). (Same as EMT 107) (CSU)

**FIRE 108 (3.0 UNITS)****Fire and Emergency Services Safety/Survival****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

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. (CSU)

**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 for 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 command 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 structural 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 180 (1.0 UNIT)****Directed Study in French****Term Hours: 18 Lec, 0 Lab****Letter Grade or Credit/No Credit**

In French 180, students will explore various aspects of French history, culture and civilization. Topics will include but are not limited to the geography, history, architecture, art, music and customs of France. The main focus of the course will be Paris. In particular, attention will be paid to evolution of social and political organizations and its relation to changes in urban topography. The course is designed to enhance the experience of students who intend to enroll in French 182 by familiarizing them with the background and significance of the places they will visit. The course will also impart practical knowledge about France and the French capital in order to facilitate student participation in the life of the country during the time they spend there. The course is offered to all students who wish to expand upon their general knowledge of French culture. (CSU)

**FREN 182 (1.0 UNIT)****Field Experience in France****Term Hours: 18 Lec, 0 Lab****Letter Grade only**

In French 182, students will be immersed in the study of Paris, the Parisian Basin and other parts of France such as the Loire Valley and the town of Chartres during an eight-day study-tour of France. The instructor will accompany students to sites of historical and cultural interest where they will acquire first-hand knowledge and experience of French culture and civilization. As students observe and participate in the life of the country, the instructor will address any questions they may have and guide them to a broad understanding and deep appreciation of the places they visit. (CSU)

**FREN 201 (5.0 UNITS)****Intermediate French I****Term Hours: 90 Lec, 0 Lab****Letter Grade only**

Recommended Preparation: FREN 100 and FREN 110.

French 201 is designed as a third semester in French. It is open to students who complete French 100 and French 110 or their equivalent. It provides instruction in the four language skills of listening comprehension, speaking, reading and writing at the beginning intermediate to intermediate levels. Intensive study of linguistic structures and vocabulary is emphasized to build communication skills in French. In addition, the study of authentic materials from a wide variety of sources including, text, images, audio recordings, video and film acquaints students with the diversity of French and francophone culture and civilization. The instructor will also guide students in their investigation of French and francophone history and literature through readings and lectures to prepare them for a major in French or to provide them with a strong general background in French and francophone studies. (CSU, UC)

**FREN 211 (5.0 UNITS)****Intermediate French II****Term Hours: 90 Lec, 0 Lab****Letter Grade only**

French 211 is designed as a fourth semester in French. It is open to students who complete French 100, French 110 and French 201 or their equivalent. It provides instruction in the four language skills of listening comprehension, speaking, reading and writing at the intermediate to advanced-intermediate levels. Intensive study of linguistic structures and vocabulary is emphasized to build communication skills in French. In addition, the study of authentic materials from a wide variety of sources including, text, images, audio recordings, video and film acquaints students with the diversity of French and francophone culture and civilization. The instructor will also guide students in their investigation of French and francophone history and literature through readings and lectures to prepare them for a major in French or to provide them with a strong general background in French and francophone studies. (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 201. 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 211. 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 ex-

pand 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 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, UC)

**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 in-depth 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 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 Pass/No Pass**

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 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)

**LATINA/LATINO 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, UC)

## 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 pro-

cessing, 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 Pass/No Pass**

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

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

**LEGL 125 (3.0 UNITS)****Real Estate Law for Legal Assistants****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

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

This course provides legal background in property ownership with special reference to the law of California as it applies to community property, conveyances, deeds, trust deeds, mortgages, homesteads and estates, etc. (CSU)

**LEGL 126 (3.0 UNITS)****Wills, Trusts, Probate, and Estate Administration****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

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

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

special proceedings in probate, preparation and filing of tax returns, procedural requirements of formal accountings, role of legal assistant in the distribution of testate estates, nature and administration of trusts, guardianships, and conservatorships, and the professional responsibilities of a probate legal assistant. (CSU)

**LEGL 127 (3.0 UNITS)****Family Law****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

Recommended Preparation: ENGL 101, Reading and Composition. In addition, students are expected to have basic familiarity with computer terms, to be able to use applications such as word processing, spreadsheets, and email, and to do online research. These skills can be learned in CIS 100 Computer Literacy. This course covers elements of family law, including elements of marriage under the law, relationships that can exist when one party enters into an invalid marriage, ante nuptial 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 term, 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 creditors' 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)



## 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 the appendix in the back of this catalog for a complete mathematics prerequisite chart

### **MATH 040 (1.0 UNIT)**

#### **Math Study Skills**

**Term Hours: 18 Lec, 0 Lab**

**Pass/No Pass 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**

**Pass/No Pass 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. (Non-transferable. Non-degree applicable)

### **MATH 070 (3.0 UNITS)**

#### **Basic Mathematics**

**Term Hours: 54 Lec, 0 Lab**

**Letter Grade only**

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

### **MATH 080 (3.0 UNITS)**

#### **Beginning Algebra**

**Term Hours: 54 Lec, 0 Lab**

**Letter Grade only**

Prerequisite: MATH 070 with a grade of "C" or better, 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, Non-degree 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 Pass/No Pass**

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 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.

An elementary differential equations course covering: First, second, and higher order differential equations and their applications. Methods include variation of parameters, Laplace transforms, and series solutions. (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 Pass/No Pass**

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. Field-trips 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 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 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 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 Pass/No Pass**

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****Pass/No Pass 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****Pass/No Pass only**

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

Corequisite: Enrollment in appropriate level nursing theory course. This course builds on theory, skills and clinical applications learned in previous semester(s). Tactile skills essential to safe nursing practice will be demonstrated in the nursing skills laboratory. Students will have the opportunity for supervised and individual practice followed by a skills check-off 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****Pass/No Pass 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 check-off 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****Pass/No Pass 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 check-off 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****Pass/No Pass 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 check-off 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): ENGL 101; Demonstration of Math Competency; Demonstration of Reading Competency; PSY 101; BIOL 200 and 202 OR BIOL 204 and 206; BIOL 220; Soc 101 OR ANTH 102; SPCH 100; NURS 100 with grades of "C" or better and admission to the Nursing program.

Corequisite(s): NURS 111; NURS 112; NURS 113

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 Reading Competency; English 101; PSY 101; BIOL 200 and 202 OR BIOL 204 and 206; BIOL 220; SOC 101 OR ANTH 102; SPCH 100; NURS 100 with grades of "C" or better and admission to the Nursing program.

Corequisite(s): NURS 110; NURS 112; NURS 113

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 check-off 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 Reading Competency; English 101; PSY 101; BIOL 200 and 202 OR BIOL 204 and 206; BIOL 220; SOC 101 OR ANTH 102; SPCH 100; NURS 100 with grades of "C" or better and admission to the Nursing program.

Corequisite(s): NURS 110; NURS 111; NURS 113

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: Demonstration of Math Competency, Demonstration of Reading Competency, 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 113.

Corequisite(s): NURS 123, NURS 125.

This course builds on theory, skills and clinical applications learned in first semester. 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 check-off 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 are 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 113.

Corequisites: NURS 121, NURS 123.

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, intrapartum 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).

Corequisite(s): NURS 231 (formerly NURS 210 and NURS 212), NURS 224, NURS 225.

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 check-off 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 is discussed. The nurse's 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, NURS 231 (formerly NURS 210 and NURS 212), NURS 224, NURS 225.

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 check-off 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, 54 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**

Prerequisites: NURS 211 and NURS 231 (formerly NURS 210 and NURS 212).

Corequisites: 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 123, NURS 125, with a grade of "C" or better.

Corequisite(s): NURS 211, NURS 224, NURS 225.

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. (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 and/or License as Vocational Nurse

A course of instruction in the practice and regulation of blood withdrawal, venipuncture, and intravenous therapy. Course content covers the anatomy and physiology of the vascular system; IV solutions, electrolytes, nutrients, vitamins, and blood/blood products; devices or equipment required to start and monitor; the role and regulations for RN, LVN, or other healthcare providers; and preparation of the client and family. At completion of the course, each participant will demonstrate successful venipuncture. (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 211, NURS 231, NURS 224, NURS 225, with a grade of "C" or better.

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. (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****Pass/No Pass 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****Pass/No Pass 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****Pass/No Pass 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: Admission to the vocational nursing program. AHP 100, BIOL 090, PSY 101, ENGL 101, current CPR certification (American Heart Health Care Provider Course only).

Corequisites: PSY 204, VN 114, VN 116

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. (CSU)

**VN 112 (5.0 UNITS)****Introduction to Patient Care II****Term Hours: 36 Lec, 162 Lab****Letter Grade only**

Prerequisites: VN 110

Corequisites: VN 114, VN 116, PSY 204

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.

Corequisites: VN 110, VN 112, VN 116, PSY 204

Recommended Preparation: MATH 090

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 manage-

ment 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 and/or License as Vocational Nurse

A course of instruction in the practice and regulation of blood withdrawal, venipuncture, and intravenous therapy. Course content covers the anatomy and physiology of the vascular system; IV solutions, electrolytes, nutrients, vitamins, and blood/blood products; devices or equipment required to start and monitor; the role and regulations for RN, LVN, or other healthcare providers; and preparation of the client and family. At completion of the course, each participant will demonstrate successful venipuncture. (Same as NURS 240) (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 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 Pass/No Pass**

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. Maximum credit four units. (CSU)

**PE 106 (1.0 UNIT)****Walking/Jogging Fitness****Term Hours: 0 Lec, 36 Lab****Letter Grade only**

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 Pass/No Pass**

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****Pass/No Pass 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 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)****Beginning to Intermediate 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 Pass/No Pass**

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

**PE 123 (2.0 UNITS)****Water Safety Instructor Training****Term Hours: 18 Lec, 36 Lab****Letter Grade only**

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 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. Maximum credit four units. (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. Maximum credit four units. (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 only**

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 Pass/No Pass**

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 students with disabilities. 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 advanced 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)****Advanced Swimming****Term Hours: 0 Lec, 36 Lab****Letter Grade or Pass/No Pass**

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. Maximum credit 2 units. (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. Maximum credit 2 units. (CSU) (UC credit limited. See a counselor.)

**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. Maximum credit four units. (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 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 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 Bowling Alley located at 950 North Imperial Ave., El Centro. Phone 482-0554. Additional materials fees required. Maximum credit 2 units. (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 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.)

**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.)

### 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)

**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 Pass/No Pass**

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 Pass/No Pass**

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 and Culture I****Term Hours: 45 Lec, 0 Lab****Letter Grade or Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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 Pass/No Pass**

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)****Advanced Oral Communication****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

Recommended Preparation: SPCH 100.

Advanced training in the preparation and delivery of public speeches with an emphasis on audience analysis and adaptation, and a consideration of the role of public discourse in a democratic society. (CSU, UC)

**SPCH 120 (3.0 UNITS)****Interpersonal Communication****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

This course gives students 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, verbal and nonverbal symbol systems. (CSU, UC)

**SPCH 130 (3.0 UNITS)****Small Group Communication****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

Recommended Preparation: SPCH 100

This course is designed to assist students in the development of critical thinking and decision-making skills in the small group communication context. An emphasis is placed on the basic elements of critical thinking, such as evidence, reasoning, and language. In addition to examining these basic elements, students become familiar with leadership strategies, discussion techniques and conflict management skills used in groups. (CSU, UC)

**SPCH 150 (3.0 UNITS)**  
**Intercultural Communication****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

Recommended Preparation: ENGL 099 and SPCH 100 with a grade of "C" or better.

This Intercultural Communication course focuses on the study of communication between people of different cultures. The discipline discusses the relationship between culture and communication. An emphasis on social, verbal and nonverbal language codes, communication breakdowns and conflict resolution will be examined. This course is critical to study of all fields that require contact with others and/or awareness of cultural distinctions especially those pursuing a career in speech communications, international business, business, education, social sciences, nursing, mass communications and teaching. (CSU, UC)

**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)

**WATER TREATMENT SYSTEMS TECH****WT 110 (4.0 UNITS)****Water Treatment Plant Operator I****Term Hours: 72 Lec, 0 Lab****Letter Grade only**

Recommended Preparation: WT 120

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 Operator I****Term Hours: 54 Lec, 0 Lab****Letter Grade only**

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 Operator 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. The course will consist of the fundamentals of wastewater treatment, 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**

Recommended Preparation: WT 120

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 system mathematics, system hydraulics, system design, water mains and valve installation, fire hydrants, water services and meters, backflow and cross-connection control, pumps and motors, occupational safety, utility management, and federal regulations. (CSU)

**WT 150 (4.0 UNITS)****Wastewater Collection Systems****Term Hours: 72 Lec, 0 Lab****Letter Grade only**

Recommended Preparation: WT 120

This course covers proper installation, inspection, operation, maintenance, and repair of wastewater collection systems. It provides the knowledge and skills to effectively operate and maintain collection systems. It also provides knowledge as to why collection systems affect treatment facilities and how they have a significant impact on the operation and maintenance costs and effectiveness of these systems. (CSU)

**WT 210 (4.0 UNITS)****Water Treatment Plant Operator II****Term Hours: 72 Lec, 0 Lab****Letter Grade only**

Prerequisite: WT 110.

Recommended Preparation: WT 220

This course is designed to give water plant operators a comprehensive understanding of freshwater treatment plant safety, iron and manganese control, fluoridation, softening, demineralization, handling, disposal of process wastes, instrumentation, maintenance, administration, drinking water regulations, and control plant math. (CSU)

**WT 220 (3.0 UNITS)****Computational Procedures 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. Subjects covered include mathematics pertaining to water treatment and distribution, wastewater treatment, collection, preliminary treatment, primary treatment, secondary treatment, tertiary treatment. (CSU)

**WT 230 (4.0 UNITS)****Wastewater Treatment Operator II****Term Hours: 72 Lec, 0 Lab****Letter Grade only**

Prerequisite: WT 130.

Recommended Preparation: WT 220.

This course covers wastewater treatment operations related to maintenance, plant safety, sampling procedures, laboratory procedures, hydraulics systems, process control, activated sludge plants, sludge digestion, solids handling, solving operational problems, record keeping and report writing. (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 Pass/No Pass**

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 - 3.0 UNITS)**

#### **General Work Experience**

**Term Hours: 0 Lec, 63 Lab**

**Letter Grade or Pass/No Pass**

**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 - 4.0 UNITS)**

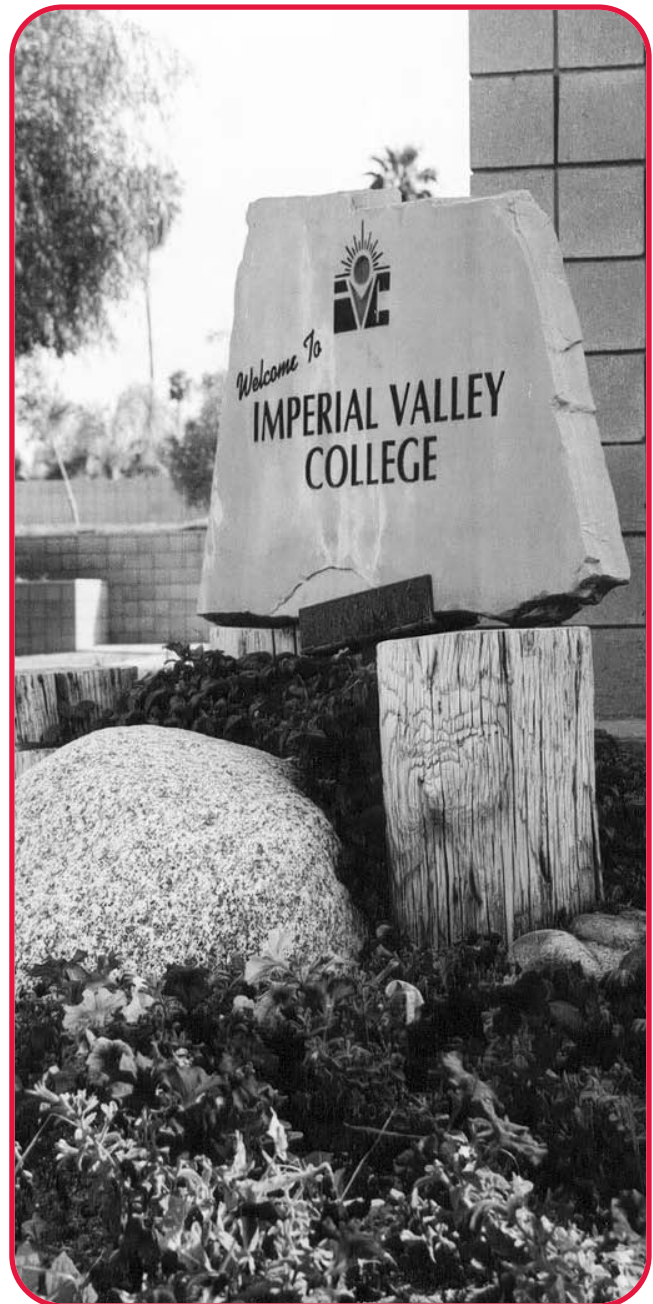
#### **Internship**

**Term Hours: 0 Lec, 63 Lab**

**Letter Grade or Pass/No Pass**

**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 coordinated 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 Trades 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-HYDRO OPERATOR

### APHY 105 (4.0 UNITS)

#### Hydro Operator V

Term Hours: 72 Lec, 0 Lab

#### Letter Grade only

Prerequisite(s): ELTT 104 - Electrical Trades 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, nondegree applicable)

### APHY 106 (4.0 UNITS)

#### Hydro Operator VI

Term Hours: 72 Lec, 0 Lab

#### Letter Grade only

Prerequisite(s): APHY 105 - Hydro Operator 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, nondegree applicable)

### APHY 107 (4.0 UNITS)

#### Hydro Operator VII

Term Hours: 72 Lec, 0 Lab

#### Letter Grade only

Prerequisite(s): APHY 106 - Hydro Operator 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, nondegree applicable)

### APHY 108 (4.0 UNITS)

#### Hydro Operator VIII

Term Hours: 72 Lec, 0 Lab

#### Letter Grade only

Prerequisite(s): APHY 107 - Hydro Operator 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, nondegree applicable)

## APPRENTICESHIP-INSTRUMENT TECHNICIAN

### APIN 105 (4.0 UNITS)

#### Instrument Technician V

Term Hours: 72 Lec, 0 Lab

#### Letter Grade only

Prerequisite(s): ELTT 104 - Electrical Trades IV.

Instruction in inspecting, adjusting and repairing electrically and pneumatically operated instruments used to indicate and control operating conditions of turbines, furnaces, boilers and auxiliaries, in steam, gas, and hydro generating plants. (Nontransferable, nondegree applicable)

### APIN 106 (4.0 UNITS)

#### Instrument Technician VI

Term Hours: 72 Lec, 0 Lab

#### Letter Grade only

Prerequisite(s): APIN 105 - Instrument 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, nondegree applicable)

**APIN 107 (4.0 UNITS)**  
**Instrument Technician VII**  
**Term Hours: 72 Lec, 0 Lab**  
**Letter Grade only**

Prerequisite(s): APIN 106 - Instrument Technician VI  
 Instruction in inspecting, adjusting and repairing electrically and pneumatically operated instruments used to indicate and control operating conditions of turbines, furnaces, boilers and auxiliaries, in steam, gas, and hydro generating plants. (Nontransferable, nondegree applicable)

**APIN 108 (4.0 UNITS)**  
**Instrument Technician VIII**  
**Term Hours: 72 Lec, 0 Lab**  
**Letter Grade only**

Prerequisite(s): APIN 107 - Instrument Technician VII.  
 Advanced instruction in inspecting, adjusting and repairing electrically and pneumatically operated instruments used to indicate and control operating conditions of turbines, furnaces, boilers and auxiliaries, in steam, gas, and hydro generating plants. (Nontransferable, nondegree applicable)

## 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, 0 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 watt hour 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. (Nontransferable, nondegree applicable)

## APPRENTICESHIP-POWER PLANT OPERATOR

### PPL 105 (4.0 UNITS)

#### Power Plant Operator V

Term Hours: 72 Lec, 0 Lab

#### Letter Grade only

Prerequisite(s): ELTT 104 - Electrical Trades IV.

Instruction operating and controlling distributed control system and heat recovery steam generator, steam turbines, generators, boilers and associated mechanical and electrical equipment in the production of electrical energy. (Nontransferable, nondegree applicable)

### APPL 106 (4.0 UNITS)

#### Power Plant Operator VI

Term Hours: 72 Lec, 0 Lab

#### Letter Grade only

Prerequisite(s): APPL 105 - Power Plant Operator V.

Comprehensive review of combined cycle power generation, gas turbine benefits, heat recovery generator, cycle parameters and their impact on plant performance, fuels for combined cycle plants, steam turbine generators, and turbine auxiliary equipment. (Nontransferable, nondegree applicable)

### APPL 107 (4.0 UNITS)

#### Power Plant Operator VII

Term Hours: 72 Lec, 0 Lab

#### Letter Grade only

Prerequisite(s): APPL 106 - Power Plant Operator VI.

Introduction to combined cycle principles, steam turbine generator, turbine control, generator operations, major components, heat recovery steam generator, flow paths and critical inspection. (Nontransferable, nondegree applicable)

### APPL 108 (4.0 UNITS)

#### Power Plant Operator VIII

Term Hours: 72 Lec, 0 Lab

#### Letter Grade only

Prerequisite(s): APPL 107 - Power Plant Operator VII.

Advanced principles of combine cycle, steam turbine generator, turbine control, generator operations, major components, heat recovery steam generator, flow paths and critical inspection. (Nontransferable, nondegree applicable)

## 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/ TELECOMMUNICATIONS 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

**AAPSB 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 or APLN 106 Power Lineman 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)

## APPRENTICESHIP-TELECOMMUNICATIONS TECHNICIAN

**APTL 105 (4.0 UNITS)**  
**Telecommunications Technician V**

**Term Hours: 72 Lec, 0 Lab**

**Letter Grade only**

Prerequisite(s): ELTT 104 - Electrical Trades IV. Instruction in installation, configuration, testing, maintaining, troubleshooting and repairing the District's SCADA, data-communication, revenue meter, and associated power plant systems. (Nontransferable, nondegree applicable)

**APTL 106 (4.0 UNITS)**  
**Telecommunications Technician VI**

**Term Hours: 72 Lec, 0 Lab**

**Letter Grade only**

Prerequisite(s): APTL 105 - Telecommunications Technician V. Instruction in installation, configuration, testing, maintaining, troubleshooting and repairing the District's SCADA, data-communication, revenue meter, and associated power plant systems. (Nontransferable, nondegree applicable)

**APTL 107 (4.0 UNITS)**  
**Telecommunications Technician VII**

**Term Hours: 72 Lec, 0 Lab**

**Letter Grade only**

Prerequisite(s): APTL 106 - Telecommunications Technician VI. Instruction in advanced installation, configuration, testing, maintaining, troubleshooting and repairing the District's SCADA, data-communication, revenue meter, and associated power plant systems. (Nontransferable, nondegree applicable)

**APTL 108 (4.0 UNITS)**  
**Telecommunications Technician VIII**

**Term Hours: 72 Lec, 0 Lab**

**Letter Grade only**

Prerequisite(s): APTL 107 - Telecommunications Technician VII. Instruction in advanced installation, configuration, testing, maintaining, troubleshooting and repairing the District's SCADA, data-communication, revenue meter, and associated power plant systems. (Nontransferable, nondegree applicable)

## MAJORS & CERTIFICATE PROGRAMS

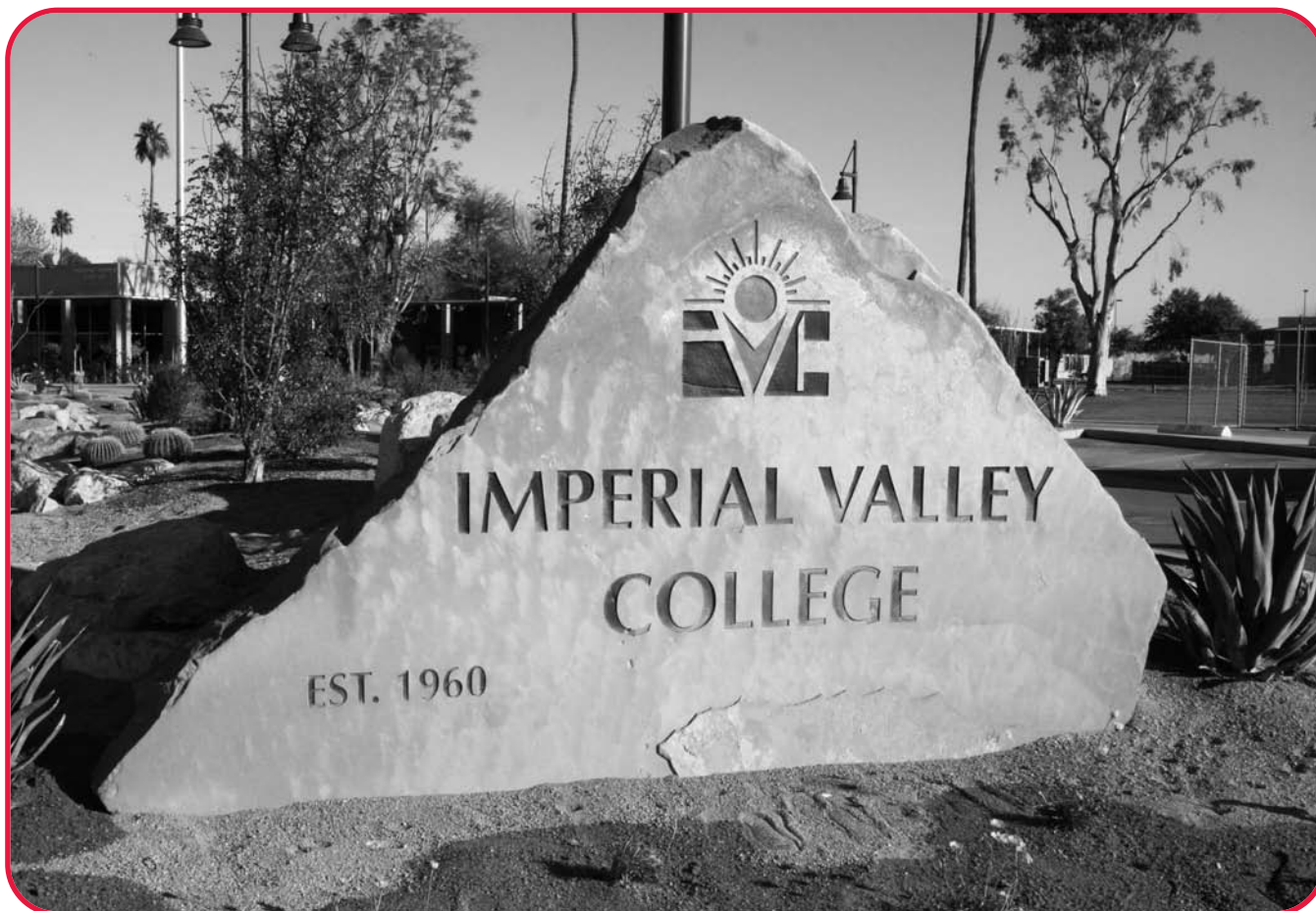
Generally, eighteen (18) units of specified course work will satisfy the requirement for the major. However, some majors will require more than eighteen (18) units. Please note the specified number of required units at the beginning of each major description.

*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.



**IMPERIAL VALLEY COLLEGE  
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**CERTIFICATE PROGRAM**

**ADMINISTRATION OF JUSTICE CERTIFICATE**

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 required for the certificate.

**I. Required Courses**

AJ	100	Intro to Admin of Justice	3.0
<b>AJ</b>	<b>102</b>	Concepts of Criminal Law	3.0
AJ	104	Legal Aspects of Evidence	3.0
AJ	106	Prin & Proceod of the Justice System	3.0
AJ	110	<b>Law Enforcement Community Relations</b>	3.0
AJ	123	Juvenile Control	3.0
ENGL	101	English Composition	3.0
ENGL	089*	Reading	3.5
<b>Total:</b>			<b>24.5</b>

\* A placement score of 3006 on the ACCUPLACER™ Reading test or English 089 (ENGL 089) with a grade of "C" or higher.

**ASSOCIATE DEGREE PROGRAM**

**ADMINISTRATION OF JUSTICE MAJOR - A.S. DEGREE**

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**

AJ	100	Intro to Admin of Justice	3.0
<b>AJ</b>	<b>102</b>	Concepts of Criminal Law	3.0
AJ	104	Legal Aspects of Evidence	3.0
AJ	106	Prin & Proceod of the Justice System	3.0
AJ	110	<b>Law Enforcement Community Relations</b>	3.0
<b>AJ</b>	<b>120</b>	<b>Public Safety Report Writing</b>	3.0
<b>Total:</b>			<b>18.0</b>

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

AJ	080	Security Guard (Arrest)	0.5
AJ	121	<b>Law Enforcement Field Operations</b>	3.0
AJ	122	Criminal Investigation	3.0
AJ	123	Juvenile Control	3.0
AJ/SOC	124	Criminology	3.0
AJ	141	Arrest & Firearms	3.5
CSI	100	Intro to Corrections	3.0
CSI	104	Concepts of Probation & Parole	3.0

**III. Recommended as electives (do NOT fulfill major requirements)**

AJ	142	<b>Regular Basic Course Modular Format Level III</b>	10.0
AJ	144	<b>Regular Basic Course Modular Format Level II</b>	13.5
AJ	150	Advanced Officers Course	.5-3.0

REFERENCE: IVCMajsCtsShs1112: CLee 07/07/11 Updated 09/20/11 C. Lee



IMPERIAL VALLEY COLLEGE  
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**CERTIFICATE PROGRAM**

**AGRICULTURAL BUSINESS MANAGEMENT CERTIFICATE**

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**

AG	080	Pesticide Safety	1.0
AG	120	Soil Science	3.0
AG	130	Agricultural Economics	3.0
AG/BUS	132	Business Management	3.0
AG	134	Agricultural Bus Organization	3.0
AG	136	Agri Sales & Services Management	3.0
AG	160	Food & Fiber in a Chang World	3.0
<b>Total:</b>			<b>19.0</b>

**Select two (2) courses from the following:**

AG	138	Computer Applications in Agriculture	3.0
AG	140	Principles of Plant Science	4.0
AG	170	<b>Principles of Entomology</b>	3.0
BUS	010	Practical Accounting	3.0
BUS	126	Bus & the Legal Environment	3.0
BUS	144	Principles of Marketing	3.0
CIS	101	Intro to Information Systems	3.0

**ASSOCIATE DEGREE PROGRAM**

**AGRICULTURAL BUSINESS MANAGEMENT MAJOR - A.S. DEGREE**

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	3.0
AG/BUS	132	Business Management	3.0
AG	134	Agricultural Bus Organization	3.0
AG	136	Agri Sales & Svc Management	3.0
<b>Total:</b>			<b>12.0</b>

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

AG	080	Pesticide Safety	1.0
AG	120	Soil Science	3.0
AG	138	Computer Applications in Agriculture	3.0
AG	140	Principles of Plant Science	4.0
AG	160	Food & Fiber in a Changing World	3.0
AG	170	<b>Principles of Entomology</b>	3.0
BUS	126	Bus & the Legal Environment	3.0
BUS	210	Prin of Financial Accounting	4.0
BUS	220	Prin of Managerial Accounting	4.0
CHEM	100	Introduction to Chemistry	4.0
CIS	101	Intro to Informaton Systems	3.0
ECON	102	Intro to Macro Economics	3.0

REFERENCE: IVCMajsCtsShts1112: CLee 07/07/11

**IMPERIAL VALLEY COLLEGE  
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**CERTIFICATE PROGRAM**

**AGRICULTURAL CROP SCIENCE CERTIFICATE**

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	1.0
AG	120	Soil Science	3.0
AG	140	Principles of Plant Science	4.0
AG	170	<b>Principles of Entomology</b>	3.0
AG	230	Fertilizers & Soil Amendments	3.0
AG	240	Field & Cereal Crops	4.0
AG	250	Vegetable Crop Production	3.0
AG	270	Weeds & Weed Control	3.0

**II. Acceptable Courses for the certificate (select a minimum of 3 units)**      3.0

AG	138	Computer Applications in Agriculture (3.0)	
AG	160	Food & Fiber in a Changing World (3.0)	
AG	220	Irrigation & Drainage (3.0)	
AG	260	Plant Protection & Integrated Pest Management (3.0)	
<b>Total:</b>			<b>27.0</b>



REFERENCE: IVCMajsCtsShs1112; CLee 07/07/11

**IMPERIAL VALLEY COLLEGE  
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**ASSOCIATE DEGREE PROGRAM**

**AGRICULTURAL SCIENCE MAJOR - A.S. DEGREE**

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 career opportunities in the agricultural field.

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

**Twenty-six (26) units required for the major**

**I. Required courses for the major**

AG	120	Soil Science	3.0
AG	140	Principles of Plant Science	4.0
AG	170	<b>Principles of Entomology</b>	3.0
CHEM	100	Introduction to Chemistry	4.0

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

AG	080	Pesticide Safety (1.0)	1.0
AG	138	Computer Applications in Agriculture (3.0)	3.0
AG	160	Food & Fiber in a Changing World (3.0)	3.0
AG	220	Irrigation & Drainage (3.0)	3.0
AG	230	Fertilizers & Soil Amendments (3.0)	3.0
AG	240	Field & Cereal Crops (4.0)	4.0
AG	250	Vegetable Crop Production (3.0)	3.0
AG	260	Plant Protection & Integrated Pest Management (3.0)	3.0
AG	270	Weeds and Weed Control (3.0)	3.0
CIS	101	Intro to Information Systems (3.0)	3.0

**Total: 26.0**

REFERENCE: IVCMajsCtsShts1112: CLee 07/07/11

**IMPERIAL VALLEY COLLEGE  
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**CERTIFICATE PROGRAM**

**AIR CONDITIONING AND REFRIGERATION TECHNOLOGY CERTIFICATE**

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 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	3.0
ACR	102	Residential Air Conditioning Systems	3.0
ACR	103	Air Conditioning Electrical Circuits and Controls	3.0
ACR	104	Air Conditioning Heating Systems	3.0
ACR	105	Heat Load Calculation and Measurements	2.0
ACR	106	Air Conditioning Ventilation Duct Systems	3.0
<b>TOTAL:</b>			<b>17.0</b>

**ASSOCIATE DEGREE PROGRAM**

**AIR CONDITIONING AND REFRIGERATION TECHNOLOGY MAJOR - A.S. DEGREE**

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 MINIMUM GRADE OF "C" OR BETTER.

**Thirty (30) units required for the major.**

ACR	101	Air Conditioning & Refrigeration Systems	3.0
ACR	102	Residential Air Conditioning Systems	3.0
ACR	103	Air Conditioning Electrical Circuits and Controls	3.0
ACR	104	Air Conditioning Heating Systems	3.0
ACR	105	Heat Load Calculation and Measurements	2.0
ACR	106	Air Conditioning Ventilation Duct Systems	3.0
BLDC	130	Carpentry Layout & Framing	4.0
EWIR	110	Electrical Principles	4.0
WELD	100	Welding Technology (Formerly WELD 130)	5.0
<b>TOTAL:</b>			<b>30.0</b>

REFERENCE: IVCMajsCtsShs1112: CLee 07/07/11

IMPERIAL VALLEY COLLEGE  
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**CERTIFICATE PROGRAM**

**ALCOHOL AND DRUG STUDIES CERTIFICATE**

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**

<b>I. Required courses for the certificate</b>			
ADS	101	Alcoholism: Intrvntn, Trtmnt & Recovery	3.0
ADS	110	Physlgl Effects of Alcohol & Drugs	3.0
ADS/PSY	120	Intro to Counseling	3.0
ADS/PSY	130	Group Leadership & Group Process	3.0
ADS	200	Fam Coun Apprchs Alchl & Drug Abuse	3.0
ADS/PSY	210	Crisis Intrvntn & Referral Techniques	3.0
ADS/PSY	220	Practicum	3.0
ADS/PSY	221	Practicum	3.0
ADS	230	Alcohol & Drug Prevention & Education	3.0
<b>II. Maximum of three (3) units selected from:</b>			
ADS	176	Sex and Gambling Addiction (1.0)	3.0
ADS	177	Anger Management (1.0)	
ADS	178	Life Skills (1.0)	
<b>III. Minimum of six (6) units selected from:</b>			
ADS/SOC	150	Sociology of Minority Groups (3.0)	6.0
PSY	101	General Psychology (3.0)	
PSY	144	The Psych of Intrprsnl Relationships (3.0)	
PSY	204	Develop Psych: Concept to Death (3.0)	
PSY	208	Abnormal Psychology (3.0)	
SW	220	Introduction to Social Work (3.0)	
SOC	101	Introduction to Sociology (3.0)	

**ASSOCIATE DEGREE PROGRAM**

**ALCOHOL AND DRUG STUDIES MAJOR - A.S. DEGREE**

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 students for transfer to institutions providing higher degrees with the social service majors.

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

**Thirty-six (36) units required for the major**

<b>I. Required courses for the major (27 units)</b>			
ADS	101	Alcoholism: Intrvntn, Trtmnt & Recovery	3.0
ADS	110	Physlgl Effects of Alcohol & Drugs	3.0
ADS/PSY	120	Intro to Counseling	3.0
ADS/PSY	130	Group Leadership & Group Process	3.0
ADS	200	Fam Coun Apprchs Alchl & Drug Abuse	3.0
ADS/PSY	210	Crisis Intrvntn & Referral Techniques	3.0
ADS/PSY	220	Practicum	3.0
ADS/PSY	221	Practicum	3.0
ADS	230	Alcohol & Drug Prevention & Education	3.0
<b>II. Maximum of three (3) units selected from:</b>			
ADS	176	Sex and Gambling Addiction (1.0)	3.0
ADS	177	Anger Management (1.0)	
ADS	178	Life Skills (1.0)	
<b>III. Minimum of six (6) units selected from:</b>			
ADS/SOC	150	Sociology of Minority Groups (3.0)	6.0
PSY	101	General Psychology (3.0)	
PSY	144	The Psych of Intrprsnl Relationships (3.0)	
PSY	204	Develop Psych: Concept to Death (3.0)	
PSY	208	Abnormal Psychology (3.0)	
SW	220	Introduction to Social Work (3.0)	
SOC	101	Introduction to Sociology (3.0)	

REFERENCE: IVCMajorsShs1112: CLee 07/07/11

IMPERIAL VALLEY COLLEGE  
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**ASSOCIATE DEGREE PROGRAM**

**ANTHROPOLOGY MAJOR - A.A. DEGREE**

ALL REQUIRED COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A MINIMUM 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	3.0
ANTH	102	Cultural Anthropology	3.0
ANTH/AIS	106	Indians of North America	3.0
ANTH	120	Introduction to Archaeology	3.0
			<b>Total: 12.0</b>

**II. Natural Science - Student must choose one course from the following science courses (3.0 to 4.0 units)**

AG/ENVS	110	Environmental Science	3.0
GEOG	100	Physical Geography	3.0
GEOL	100	General Geology	4.0

**III. Electives - Student must choose one course from the following elective courses (3.0)**

ANTH/AIS	104	California Indians	3.0
ANTH/AIS	108	Indians of the Southwest	3.0
ART	170	Photography - Beginning	3.0
ART	270	Photography - Intermediate	3.0
BIOL	142	Ethnobotany	3.0
HIST	100	Early World History	3.0
HIST	222	History of California	3.0
RELS	100	Religions of the Modern World (Was PHIL 108)	3.0

REFERENCE: IVCMajsCtsShs1112: CLee 07/07/11

**IMPERIAL VALLEY COLLEGE  
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**CERTIFICATE PROGRAM**

**APPRENTICESHIP - ELECTRICIAN CERTIFICATE**

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 coordinated 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 employed of the IID. Applicants for these apprenticeship programs are directed to the IID located ay 333 E. Barioni Blvd., Imperial, CA 92251, telephone (760) 482-9640. Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in.

The ELTT (101-104) courses are open to apprentices and non-apprentices, see Electrical Trades listing in courses section. 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.

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

**Thirty-two (32) units required for the certificate.**

ELTT	101	Electrical Trades I	4.0
ELTT	102	Electrical Trades II	4.0
ELTT	103	Electrical Trades III	4.0
ELTT	104	Electrical Trades IV	4.0
APEL	105	Electrician V	4.0
APEL	106	Electrician VI	4.0
<b>OR</b>	<b>APLN 106</b>	<b>Power Lineman VI (4.0)</b>	
APEL	107	Electrician VII	4.0
APEL	108	Electrician VIII	4.0
<b>Total Units:</b>			<b>32.0</b>

**ASSOCIATE DEGREE PROGRAM**

**APPRENTICESHIP - ELECTRICIAN MAJOR - A.S. DEGREE**

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 coordinated 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 employed of the IID. Applicants for these apprenticeship programs are directed to the IID located ay 333 E. Barioni Blvd., Imperial, CA 92251, telephone (760) 482-9640. Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in.

The ELTT (101-104) courses are open to apprentices and non-apprentices, see Electrical Trades listing in courses section. 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.

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

**Thirty-two (32) units required for the major.**

ELTT	101	Electrical Trades I	4.0
ELTT	102	Electrical Trades II	4.0
ELTT	103	Electrical Trades III	4.0
ELTT	104	Electrical Trades IV	4.0
APEL	105	Electrician V	4.0
APEL	106	Electrician VI	4.0
<b>OR</b>	<b>APLN 106</b>	<b>Power Lineman VI (4.0)</b>	
APEL	107	Electrician VII	4.0
APEL	108	Electrician VIII	4.0
<b>Total Units:</b>			<b>32.0</b>

REFERENCE: IVCMajsCtsShs1112: CLee 07/07/11

**IMPERIAL VALLEY COLLEGE  
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**CERTIFICATE PROGRAM**

**APPRENTICESHIP - GENERATION MECHANIC CERTIFICATE**

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 coordinated 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 employed of the IID. Applicants for these apprenticeship programs are directed to the IID located ay 333 E. Barioni Blvd., Imperial, CA 92251, telephone (760) 482-9640. Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in.

The ELTT (101-104) courses are open to apprentices and non-apprentices, see Electrical Trades listing in courses section. 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.

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

**Thirty-two (32) units required for the certificate.**

ELTT	101	Electrical Trades I	4.0
ELTT	102	Electrical Trades II	4.0
ELTT	103	Electrical Trades III	4.0
ELTT	104	Electrical Trades IV	4.0
APGN	105	Generation Mechanic V	4.0
APGN	106	Generation Mechanic VI	4.0
APGN	107	Generation Mechanic VII	4.0
APGN	108	Generation Mechanic VIII	4.0
<b>Total Units:</b>			<b>32.0</b>

**ASSOCIATE DEGREE PROGRAM**

**APPRENTICESHIP - GENERATION MECHANIC MAJOR - A.S. DEGREE**

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 coordinated 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 employed of the IID. Applicants for these apprenticeship programs are directed to the IID located ay 333 E. Barioni Blvd., Imperial, CA 92251, telephone (760) 482-9640. Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in.

The ELTT (101-104) courses are open to apprentices and non-apprentices, see Electrical Trades listing in courses section. 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.

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

**Thirty-two (32) units required for the major.**

ELTT	101	Electrical Trades I	4.0
ELTT	102	Electrical Trades II	4.0
ELTT	103	Electrical Trades III	4.0
ELTT	104	Electrical Trades IV	4.0
APGN	105	Generation Mechanic V	4.0
APGN	106	Generation Mechanic VI	4.0
APGN	107	Generation Mechanic VII	4.0
APGN	108	Generation Mechanic VIII	4.0
<b>Total Units:</b>			<b>32.0</b>

REFERENCE: IVCMajsCtsShs1112: CLee 07/07/11



**IMPERIAL VALLEY COLLEGE  
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**CERTIFICATE PROGRAM**

**APPRENTICESHIP - METER TECHNICIAN CERTIFICATE**

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 coordinated 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 employed of the IID. Applicants for these apprenticeship programs are directed to the IID located ay 333 E. Barioni Blvd., Imperial, CA 92251, telephone (760) 482-9640. Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in.

The ELTT (101-104) courses are open to apprentices and non-apprentices, see Electrical Trades listing in courses section. 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.

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

**Thirty-two (32) units required for the certificate.**

ELTT	101	Electrical Trades I	4.0
ELTT	102	Electrical Trades II	4.0
ELTT	103	Electrical Trades III	4.0
ELTT	104	Electrical Trades IV	4.0
APMT	105	Meter Technician V	4.0
APMT	106	Meter Technician VI	4.0
APMT	107	Meter Technician VII	4.0
APMT	108	Meter Technician VIII	4.0
<b>Total Units:</b>			<b>32.0</b>

**ASSOCIATE DEGREE PROGRAM**

**APPRENTICESHIP - METER TECHNICIAN MAJOR - A.S. DEGREE**

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 coordinated 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 employed of the IID. Applicants for these apprenticeship programs are directed to the IID located ay 333 E. Barioni Blvd., Imperial, CA 92251, telephone (760) 482-9640. Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in.

The ELTT (101-104) courses are open to apprentices and non-apprentices, see Electrical Trades listing in courses section. 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.

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

**Thirty-two (32) units required for the major.**

ELTT	101	Electrical Trades I	4.0
ELTT	102	Electrical Trades II	4.0
ELTT	103	Electrical Trades III	4.0
ELTT	104	Electrical Trades IV	4.0
APMT	105	Meter Technician V	4.0
APMT	106	Meter Technician VI	4.0
APMT	107	Meter Technician VII	4.0
APMT	108	Meter Technician VIII	4.0
<b>Total Units:</b>			<b>32.0</b>

REFERENCE: IVCMajsCtsShs1112: CLee 07/07/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**CERTIFICATE PROGRAM**

**APPRENTICESHIP - POWER LINEMAN CERTIFICATE**

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 coordinated 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 employed of the IID. Applicants for these apprenticeship programs are directed to the IID located ay 333 E. Barioni Blvd., Imperial, CA 92251, telephone (760) 482-9640. Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in.

The ELTT (101-104) courses are open to apprentices and non-apprentices, see Electrical Trades listing in courses section. 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.

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

**Thirty-two (32) units required for the certificate.**

ELTT	101	Electrical Trades I	4.0
ELTT	102	Electrical Trades II	4.0
ELTT	103	Electrical Trades III	4.0
ELTT	104	Electrical Trades IV	4.0
APLN	105	Power Lineman V	4.0
APLN	106	Power Lineman VI	4.0
APLN	107	Power Lineman VII	4.0
APLN	108	Power Lineman VIII	4.0
<b>Total Units:</b>			<b>32.0</b>

**ASSOCIATE DEGREE PROGRAM**

**APPRENTICESHIP - POWER LINEMAN MAJOR - A.S. DEGREE**

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 coordinated 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 employed of the IID. Applicants for these apprenticeship programs are directed to the IID located ay 333 E. Barioni Blvd., Imperial, CA 92251, telephone (760) 482-9640. Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in.

The ELTT (101-104) courses are open to apprentices and non-apprentices, see Electrical Trades listing in courses section. 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.

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

**Thirty-two (32) units required for the major.**

ELTT	101	Electrical Trades I	4.0
ELTT	102	Electrical Trades II	4.0
ELTT	103	Electrical Trades III	4.0
ELTT	104	Electrical Trades IV	4.0
APLN	105	Power Lineman V	4.0
APLN	106	Power Lineman VI	4.0
APLN	107	Power Lineman VII	4.0
APLN	108	Power Lineman VIII	4.0
<b>Total Units:</b>			<b>32.0</b>

REFERENCE: IVCMajsCtsShs1112: CLee 07/07/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**CERTIFICATE PROGRAM**

**APPRENTICESHIP - RELAYS TECHNICIAN CERTIFICATE**

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 coordinated 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 employed of the IID. Applicants for these apprenticeship programs are directed to the IID located ay 333 E. Barioni Blvd., Imperial, CA 92251, telephone (760) 482-9640. Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in.

The ELTT (101-104) courses are open to apprentices and non-apprentices, see Electrical Trades listing in courses section. 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.

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

**Thirty-two (32) units required for the certificate.**

ELTT	101	Electrical Trades I	4.0
ELTT	102	Electrical Trades II	4.0
ELTT	103	Electrical Trades III	4.0
ELTT	104	Electrical Trades IV	4.0
APRL	105	Relays Technician V	4.0
APRL	106	Relays Technician VI	4.0
<b>OR</b>	<b>APLN 106</b>	<b>Power Lineman VI (4.0)</b>	
APRL	107	Relays Technician VII	4.0
APRL	108	Relays Technician VIII	4.0
<b>Total Units:</b>			<b>32.0</b>

**ASSOCIATE DEGREE PROGRAM**

**APPRENTICESHIP - RELAYS TECHNICIAN MAJOR - A.S. DEGREE**

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 coordinated 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 employed of the IID. Applicants for these apprenticeship programs are directed to the IID located ay 333 E. Barioni Blvd., Imperial, CA 92251, telephone (760) 482-9640. Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in.

The ELTT (101-104) courses are open to apprentices and non-apprentices, see Electrical Trades listing in courses section. 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.

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

**Thirty-two (32) units required for the major.**

ELTT	101	Electrical Trades I	4.0
ELTT	102	Electrical Trades II	4.0
ELTT	103	Electrical Trades III	4.0
ELTT	104	Electrical Trades IV	4.0
APRL	105	Relays Technician V	4.0
APRL	106	Relays Technician VI	4.0
<b>OR</b>	<b>APLN 106</b>	<b>Power Lineman VI (4.0)</b>	
APRL	107	Relays Technician VII	4.0
APRL	108	Relays Technician VIII	4.0
<b>Total Units:</b>			<b>32.0</b>

REFERENCE: IVCMajsCtsShs1112: CLee 07/07/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**CERTIFICATE PROGRAM**

**APPRENTICESHIP - SCADA/TELECOMMUNICATIONS TECHNICIAN CERTIFICATE**

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 coordinated 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 employed of the IID. Applicants for these apprenticeship programs are directed to the IID located ay 333 E. Barioni Blvd., Imperial, CA 92251, telephone (760) 482-9640. Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in.

The ELTT (101-104) courses are open to apprentices and non-apprentices, see Electrical Trades listing in courses section. 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.

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

**Thirty-two (32) units required for the certificate.**

ELTT	101	Electrical Trades I	4.0
ELTT	102	Electrical Trades II	4.0
ELTT	103	Electrical Trades III	4.0
ELTT	104	Electrical Trades IV	4.0
APSC	105	SCADA/Telecommunications Technician V	4.0
APSC	106	SCADA/Telecommunications Technician VI	4.0
APSC	107	SCADA/Telecommunications Technician VII	4.0
APSC	108	SCADA/Telecommunications Technician VIII	4.0
<b>Total Units:</b>			<b>32.0</b>

**ASSOCIATE DEGREE PROGRAM**

**APPRENTICESHIP - SCADA/TELECOMMUNICATIONS TECHNICIAN MAJOR - A.S. DEGREE**

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 coordinated 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 employed of the IID. Applicants for these apprenticeship programs are directed to the IID located ay 333 E. Barioni Blvd., Imperial, CA 92251, telephone (760) 482-9640. Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in.

The ELTT (101-104) courses are open to apprentices and non-apprentices, see Electrical Trades listing in courses section. 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.

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

**Thirty-two (32) units required for the major.**

ELTT	101	Electrical Trades I	4.0
ELTT	102	Electrical Trades II	4.0
ELTT	103	Electrical Trades III	4.0
ELTT	104	Electrical Trades IV	4.0
APSC	105	SCADA/Telecommunications Technician V	4.0
APSC	106	SCADA/Telecommunications Technician VI	4.0
APSC	107	SCADA/Telecommunications Technician VII	4.0
APSC	108	SCADA/Telecommunications Technician VIII	4.0
<b>Total Units:</b>			<b>32.0</b>

REFERENCE: IVCMajsCtsShs1112: CLee 07/07/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**CERTIFICATE PROGRAM**

**APPRENTICESHIP - SUBSTATION-ELECTRICIAN CERTIFICATE**

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 coordinated 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 employed of the IID. Applicants for these apprenticeship programs are directed to the IID located ay 333 E. Barioni Blvd., Imperial, CA 92251, telephone (760) 482-9640. Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in.

The ELTT (101-104) courses are open to apprentices and non-apprentices, see Electrical Trades listing in courses section. 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.

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

**Thirty-two (32) units required for the certificate.**

ELTT	101	Electrical Trades I	4.0
ELTT	102	Electrical Trades II	4.0
ELTT	103	Electrical Trades III	4.0
ELTT	104	Electrical Trades IV	4.0
APSB	105	Substation-Electrician V	4.0
APSB	106	Substation-Electrician VI	4.0
<b>OR</b>	<b>APLN 106</b>	<b>Power Lineman VI (4.0)</b>	
APSB	107	Substation-Electrician VII	4.0
APSB	108	Substation-Electrician VIII	4.0
<b>Total Units:</b>			<b>32.0</b>

**ASSOCIATE DEGREE PROGRAM**

**APPRENTICESHIP - SUBSTATION-ELECTRICIAN MAJOR - A.S. DEGREE**

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 coordinated 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 employed of the IID. Applicants for these apprenticeship programs are directed to the IID located ay 333 E. Barioni Blvd., Imperial, CA 92251, telephone (760) 482-9640. Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in.

The ELTT (101-104) courses are open to apprentices and non-apprentices, see Electrical Trades listing in courses section. 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.

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

**Thirty-two (32) units required for the major.**

ELTT	101	Electrical Trades I	4.0
ELTT	102	Electrical Trades II	4.0
ELTT	103	Electrical Trades III	4.0
ELTT	104	Electrical Trades IV	4.0
APSB	105	Substation-Electrician V	4.0
APSB	106	Substation-Electrician VI	4.0
<b>OR</b>	<b>APLN 106</b>	<b>Power Lineman VI (4.0)</b>	
APSB	107	Substation-Electrician VII	4.0
APSB	108	Substation-Electrician VIII	4.0
<b>Total Units:</b>			<b>32.0</b>

REFERENCE: IVCMajsCtsShs1112: CLee 07/07/11

IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

**ASSOCIATE DEGREE PROGRAM**

**ART MAJOR - A.A. DEGREE**

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

**Twenty-seven (27) units required for the major**

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

ART	100	History & Appreciation of Art I	3.0
ART	102	History & Appreciation of Art II	3.0
ART	110	Design	3.0
ART	112	Design	3.0
ART	120 *	<b>Drawing I</b>	3.0
ART	122	<b>Drawing II</b>	3.0
			<b>Total: 18.0</b>

**II. Complete an additional nine (9) units from the following courses:**

ART	104	History & Apprec of Modern Art	3.0
ART	106	Women Artists	3.0
ART	124	<b>Painting I</b>	3.0
ART	126	<b>Painting II</b>	3.0
ART	128	Watercolor Painting	3.0-6.0
ART	130	Life Drawing	3.0-6.0
ART	140	Ceramics	3.0-6.0
ART	150	<b>Beginning Sculpture</b>	3.0-6.0
ART	160	Graphic Design	3.0
ART	170	Photography - Beginning	3.0-6.0
ART	220	<b>Drawing III</b>	3.0
ART	222	<b>Drawing IV</b>	3.0
ART	224	<b>Painting III</b>	3.0
ART	226	<b>Painting IV</b>	3.0
ART	228	Exploration of Painting Techniques	2.0
ART	230	Life Drawing	3.0-6.0
ART	240	Ceramics	3.0
ART	242	<b>Technical Ceramics</b>	3.0
ART	262	Gallery Display	3.0-9.0
ART	270	<b>Intermediate Photography</b>	3.0-6.0
ART	280	Career Preparation in the Visual Arts	3.0

\* Should be taken first semester, if possible, to allow for sequence of ART 122, ART 124, and ART 130.

REFERENCE: IVCMajCsShts1112: CLee 07/07/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**CERTIFICATE PROGRAM**

**AUTOMOTIVE COLLISION REPAIR CERTIFICATE**

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	5.0
AU B	140	Frame/Undercarriage Repair	5.0
AU B	220	Estimating and Collision Repair	5.0
AU B	240	Custom Refinishing & Shop Mgt	3.0
AU T	125	Automotive Brakes	4.0
AU T	155	Suspension & Wheel Alignment	4.0
WELD	100	Welding Technology (Formerly WELD 130)	5.0
<b>Total:</b>			<b>31.0</b>

**ASSOCIATE DEGREE PROGRAM**

**AUTOMOTIVE COLLISION REPAIR MAJOR - A.S. DEGREE**

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	5.0
AU B	140	Frame/Undercarriage Repair	5.0
AU B	220	Estimating and Collision Repair	5.0
AU B	240	Custom Refinishing & Shop Mgt	3.0
AU T	125	Automotive Brakes	4.0
AU T	155	Suspension & Wheel Alignment	4.0
WELD	100	Welding Technology (Formerly WELD 130)	5.0
<b>Total:</b>			<b>31.0</b>

**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	4.0
WE	201	Employment Readiness	1.0
WE	210	General Work Experience	1.0

REFERENCE: IVCmajCsShts1112: CLee 07/07/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**CERTIFICATE PROGRAM**

**AUTOMOTIVE TECHNOLOGY CERTIFICATE**

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

**Thirty-nine (39) units required for the certificate.**

**I. Required courses for the certificate**

AU T	110	Engine Technology	4.0
AU T	125	Automotive Brakes	4.0
AU T	130	Automotive Electronics I	3.0
AU T	150	Automotive Electronics II	4.0
AU T	155	Suspension & Wheel Alignment	4.0
AU T	160	Engine Performance Tune-Up	3.0
AU T	170	Engine Diagnosis & Repair	3.0
AU T	180	Manual Trans & Power Trains	4.0
AU T	210	Automotive Air Conditioning	3.0
AU T	220	Mechanical Automatic Transmissions	4.0
AU T	230	Emissions Control & Computer Systems	3.0
<b>Total:</b>			<b>39.0</b>

**II. Recommended courses for the certificate (not required)**

CIS	100	Computer Literacy	1.0
<b>OR</b>			
CIS	110	Windows Operating System	1.0
MATH	070	Basic Mathematics	3.0
WELD	100	Welding Technology (Formerly WELD 130)	5.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0

**ASSOCIATE DEGREE PROGRAM**

**AUTOMOTIVE TECHNOLOGY MAJOR - A.S. DEGREE**

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

**Thirty-nine (39) units required for the major.**

**I. Required courses for the major**

AU T	110	Engine Technology	4.0
AU T	125	Automotive Brakes	4.0
AU T	130	Automotive Electronics I	3.0
AU T	150	Automotive Electronics II	4.0
AU T	155	Suspension & Wheel Alignment	4.0
AU T	160	Engine Performance Tune-Up	3.0
AU T	170	Engine Diagnosis & Repair	3.0
AU T	180	Manual Trans & Power Trains	4.0
AU T	210	Automotive Air Conditioning	3.0
AU T	220	Mechanical Automatic Transmissions	4.0
AU T	230	Emissions Control & Computer Systems	3.0
<b>Total:</b>			<b>39.0</b>

**II. Recommended courses for the major (not required)**

CIS	100	Computer Literacy	1.0
<b>OR</b>			
CIS	110	Windows Operating System	1.0
MATH	070	Basic Mathematics	3.0
WELD	100	Welding Technology (Formerly WELD 130)	5.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0

REFERENCE: IVCMajsCtsShs1112: CLee 07/07/11



**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**ASSOCIATE DEGREE PROGRAM ONLY**

**BEHAVIORAL SCIENCE MAJOR - A.A. DEGREE**

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	3.0
ANTH	102	Cultural Anthropology	3.0

**Psychology**

DSPS/EDUC	240	Understanding Excep Students	3.0
MATH	119	Elementary Statistics	4.0
PSY	101	Intro to Psychology	3.0
PSY/CDEV	104	Child Growth & Development (Was PSY/CFCS 106)	3.0
PSY/ADS	120	Intro to Counseling	3.0
PSY	142	Psychology of Adjustment	3.0
PSY	144	The Psych of Interpersonal Relationships	3.0
PSY	146	Psych of Human Sexuality	3.0
PSY	200	Biological Psychology	3.0
PSY	202	Learning	3.0
PSY	204	Develop Psych: Conception to Death	3.0
PSY/SOC	206	Social Psychology	3.0
PSY	208	Abnormal Psychology	3.0
PSY	212	Research Methods in Psychology	3.0
PSY/ADS	220/221	Practicum	3.0

**Sociology**

SOC	101	Introductory Sociology	3.0
SOC	102	Contemp Social Problems	3.0
SOC	110	Marriage & the Family	3.0
SOC/AJ	124	Criminology	3.0
SOC/ADS	150	Sociology of Minority Groups	3.0
SOC/PSY	206	Social Psychology	3.0

**II. Recommended as electives (do NOT fulfill major requirements)**

BIOL	100	Prin of Biological Science	4.0
BIOL	122	General Zoology II	4.0
CDEV	103	Child Family & Community (Was CFCS 104)	3.0

REFERENCE: IVCMajsCtsShts1112: CLee 07/07/11

IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

**CERTIFICATE PROGRAM**

**BUILDING CONSTRUCTION TECHNOLOGY CERTIFICATE**

The Building Construction Technology Certificate along with the specializations in Carpentry, Concrete Masonry, and Project management are designed to provide instruction in manipulative skills, technical knowledge, and related trade information which will prepare the student for employment in the Building Construction Industry.

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

**Twenty-five (25) units required for the certificate.**

BLDC	101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0
BLDC	110	Construction Blueprints, Specifications, Measurements, & Codes	3.0
BLDC	130	Carpentry Layout & Framing	4.0
BLDC	135	Residential Plumbing Applications	3.0
BLDC	140	Building Construction Methods & Materials	3.0
BLDC	145	Concrete Formwork, Layout, & Setting	3.0
BLDC	170	Essentials of Efficient Green Construction	3.0
BLDC	180	Building Planning & Cost Estimation	3.0
<b>TOTAL UNITS:</b>			<b>25.0</b>

THE FOLLOWING SPECIALIZATION CERTIFICATES DEMONSTRATE A COMPLETION OF SPECIALIZED COURSE WORK IN ADDITION TO THE MAJOR.

**Building Construction Technology: Carpentry Specialization Certificate (Major plus 7 units)**

The Carpentry Specialization is designed to provide instruction in manipulative skills, technical knowledge, & related trade information, which will prepare the student for employment in the Building Construction Industry.

BLDC	150	Carpentry Methods, Materials, & Tools	4.0
BLDC	190	Carpentry Trim & Detail Work	3.0

**Building Construction Technology: Concrete Masonry Specialization Certificate (Major plus 8 units)**

The Concrete Masonry Specialization is designed to provide instruction in manipulative skills, technical knowledge, & related trade information, which will prepare the student for employment in the Building Construction Masonry Industry.

BLDC	165	Concrete Materials, Methods, & Tools	4.0
BLDC	185	Concrete Footings, Flatwork, & Detail Work	4.0

**Building Construction Technology: Project Management Specialization Certificate (Major plus 9 units)**

The Project Management Specialization is designed to provide instruction in manipulative skills, technical knowledge, & related trade information, which will prepare the student for employment in the Building Construction Industry.

BLDC	160	Construction Technical & Contract Documents	3.0
BLDC	201	Construction Planning & Management	3.0
BLDC	210	Construction Management & Organization	3.0

REFERENCE: IVCMajCsShs1112: CLee 07/11/11

**ASSOCIATE DEGREE PROGRAM**

**BUILDING CONSTRUCTION TECHNOLOGY MAJOR - A.S. DEGREE**

The Building Construction Technology Associate in Science degree along with the specializations in Carpentry, Concrete Masonry, and Project management are designed to provide instruction in manipulative skills, technical knowledge, and related trade information, which will prepare the student for employment in the Building Construction Industry.

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

**Twenty-five (25) units required for the major.**

BLDC	101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0
BLDC	110	Construction Blueprints, Specifications, Measurements, & Codes	3.0
BLDC	130	Carpentry Layout & Framing	4.0
BLDC	135	Residential Plumbing Applications	3.0
BLDC	140	Building Construction Methods & Materials	3.0
BLDC	145	Concrete Formwork, Layout, & Setting	3.0
BLDC	170	Essentials of Efficient Green Construction	3.0
BLDC	180	Building Planning & Cost Estimation	3.0
<b>TOTAL UNITS:</b>			<b>25.0</b>

IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

**CERTIFICATE PROGRAM**

**BUSINESS ACCOUNTING TECHNICIAN CERTIFICATE**

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 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	3.0
BUS	167	Machine Calculation	1.0
BUS	169	Records Management	2.0
BUS	172	Office Tech & Procedures II	3.0
BUS	210 **	Prin of Financial Accounting	4.0
CIS	101	Intro to Information Systems	3.0
CIS	108	Computer Accounting	3.0
CIS	124	Excel I	1.0
CIS	125	Excel II	1.0
WE	201 *	Employment Readiness	1.0
WE	220 *	Internship	1.0

\* 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.

**II. Acceptable courses for the certificate (select three units)**

BUS	010	Practical Accounting	3.0
BUS	061	Business English	3.0
BUS	124	Intro to Business	3.0
BUS	220	Prin of Managerial Accounting	4.0
<b>BUS</b>	<b>230</b>	<b>Introduction to Governmental Accounting</b>	<b>3.0</b>

**III. Required skill level for the certificate**

Keyboarding skill level 40 nwpm. (BUS 156, Keyboarding Speed & Accuracy, may be helpful in obtaining this speed level.)

**ASSOCIATE DEGREE PROGRAM**

**BUSINESS ACCOUNTING TECHNICIAN MAJOR - A.S. DEGREE**

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	3.0
BUS	167	Machine Calculation	1.0
BUS	169	Records Management	2.0
BUS	172	Office Tech & Procedures II	3.0
BUS	210 **	Prin of Financial Accounting	4.0
CIS	101	Intro to Information Systems	3.0
CIS	108	Computer Accounting	3.0
CIS	124	Excel I	1.0
CIS	125	Excel II	1.0
WE	201 *	Employment Readiness	1.0
WE	220 *	Internship	1.0

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

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

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

BUS	010	Practical Accounting	3.0
BUS	061	Business English	3.0
BUS	124	Intro to Business	3.0
BUS	220	Prin of Managerial Accounting	4.0
<b>BUS</b>	<b>230</b>	<b>Introduction to Governmental Accounting</b>	<b>3.0</b>

**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.)

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**ASSOCIATE DEGREE PROGRAM**

**BUSINESS ADMINISTRATION MAJOR - A.S. DEGREE**

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	3.0
BUS	210	Prin of Financial Accounting	4.0
BUS	220	Prin of Managerial Accounting	4.0
ECON	101	Introduction to Micro Economics	3.0
ECON	102	Introduction to Macro Economics	3.0
			<b>Total: 17.0</b>

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

<b>BUS</b>	<b>230</b>	<b>Introduction to Governmental Accounting</b>	<b>3.0</b>
BUS	260	Business Communications	3.0
CIS	101	Intro to Information Systems	3.0
CIS	108	Computer Accounting	3.0
MATH	119	Elementary Statistics	4.0
MATH	122	Finite Mathematics	3.0
MATH	140	Trigonometry	3.0
MATH	150	College Algebra	4.0
MATH	170	Intro Calculus with Applications	4.0
MATH	190	Pre-Calculus	5.0
MATH	192	Calculus I	5.0

REFERENCE: IVCMajsCrtsShts1112 - CLee 07/11/11

**IMPERIAL VALLEY COLLEGE  
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**CERTIFICATE PROGRAM**

**BUSINESS ADMINISTRATIVE ASSISTANT CERTIFICATE**

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 take initiative. These individuals provide administrative support to an individual or an office. Job duties may include directing an coordinating administrative services.

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

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

**I. Required courses for the certificate**

BUS	126	Bus & the Legal Environment	3.0
BUS	136	Human Relations in Management	3.0
BUS	167	Machine Calculation	1.0
BUS	172	Office Tech & Procedures II	3.0
BUS	176	Office Transcription	1.0
BUS	180	Microsoft Office for the Workplace	4.0
BUS	210 **	Prin of Financial Accounting	4.0
BUS	260	Business Communications	3.0
CIS	101	Intro to Information Systems	3.0
WE	201 *	Employment Readiness	1.0
WE	220 *	Internship	1.0
<b>Total:</b>			<b>27.0</b>

\* 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.

**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.)

**ASSOCIATE DEGREE PROGRAM**

**BUSINESS ADMINISTRATIVE ASSISTANT MAJOR - A.S. DEGREE**

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 take initiative. These individuals provide administrative support to an individual or an office. Job duties may include directing an 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**

BUS	126	Bus & the Legal Environment	3.0
BUS	136	Human Relations in Management	3.0
BUS	167	Machine Calculation	1.0
BUS	172	Office Tech & Procedures II	3.0
BUS	176	Office Transcription	1.0
BUS	180	Microsoft Office for the Workplace	4.0
BUS	210 **	Prin of Financial Accounting	4.0
BUS	260	Business Communications	3.0
CIS	101	Intro to Information Systems	3.0
WE	201 *	Employment Readiness	1.0
WE	220 *	Internship	1.0
<b>Total:</b>			<b>27.0</b>

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

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

**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.)

IMPERIAL VALLEY COLLEGE  
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**CERTIFICATE PROGRAM**

**BUSINESS FINANCIAL SERVICES CERTIFICATE**

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 GRADE OF "C" OR BETTER.

Twenty-five (25) units required for the certificate.

**I. Required courses for the certificate**

BUS	124	Introduction to Business	3.0
BUS	126	Bus & the Legal Environment	3.0
BUS/AG	132	Business Management	3.0
BUS	210	Prin of Financial Accounting	4.0
BUS	260	Business Communications	3.0
CIS	101	Intro to Information Systems	3.0
ECON	102	Intro to Macroeconomics	3.0

**II. Acceptable courses for the certificate (minimum of 3 units from the following):**

BUS	010	Practical Accounting	3.0
BUS	060	Essentials of Workplace Corr	3.0
BUS	148	Personal Finance	3.0
BUS	220	Prin of Managerial Accounting	4.0
<b>CIS</b>	<b>102</b>	<b>Computer Applications Laboratory</b>	<b>1.0</b>
CIS	108	Computer Accounting	3.0
CIS	124	Excel I	1.0
CIS	125 *	Excel II	1.0
ECON	101	Intro to Microeconomics	3.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0

\* Highly recommended for this certificate.

**ASSOCIATE DEGREE PROGRAM**

**BUSINESS FINANCIAL SERVICES MAJOR - A.S. DEGREE**

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-five (25) units required for the major.

**I. Required courses for the major**

BUS	124	Introduction to Business	3.0
BUS	126	Bus & the Legal Environment	3.0
BUS/AG	132	Business Management	3.0
BUS	210	Prin of Financial Accounting	4.0
BUS	260	Business Communications	3.0
CIS	101	Intro to Information Systems	3.0
ECON	102	Intro to Macro Economics	3.0

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

BUS	010	Practical Accounting	3.0
BUS	060	Essentials of Workplace Corr	3.0
BUS	148	Personal Finance	3.0
BUS	220	Prin of Managerial Accounting	4.0
<b>CIS</b>	<b>102</b>	<b>Computer Applications Laboratory</b>	<b>1.0</b>
CIS	108	Computer Accounting	3.0
CIS	124	Excel I	1.0
CIS	125 *	Excel II	1.0
ECON	101	Intro to Micro Economics	3.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0

\* Highly recommended for this major.

IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

**CERTIFICATE PROGRAM**

**BUSINESS MANAGEMENT CERTIFICATE**

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 GRADE OF "C" OR BETTER.

Twenty-five (25) units required for the certificate.

**I. Required courses for the certificate**

<b>BUS</b>	<b>124</b>	<b>Introduction to Business</b>	<b>3.0</b>
BUS	126	Bus & the Legal Environment	3.0
BUS/AG	132	Business Management	3.0
BUS	210	Prin of Financial Accounting	4.0
BUS	260	Business Communications	3.0
CIS	101	Intro to Information Systems	3.0

**II. Acceptable courses for the certificate (minimum of six units from the following courses)**

BUS	010	Practical Accounting	3.0
BUS	060	Essentials of Workplace Corres	3.0
BUS	134	Management Concepts of Supervision	3.0
BUS	136	Human Relations in Mgmt	3.0
BUS	140	Business Retailing	3.0
BUS	142	Practical Salesmanship	3.0
BUS	144	Principles of Marketing	3.0
BUS	148	Personal Finance	3.0
BUS	220	Prin of Managerial Accounting	4.0
<b>CIS</b>	<b>102</b>	<b>Computer Applications Laboratory</b>	<b>1.0</b>
CIS	108	Computer Accounting	3.0
CIS	124	Excel I	1.0
CIS	125	Excel II	1.0
ECON	101	Intro to Microeconomics	3.0
ECON	102	Intro to Macroeconomics	3.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0

**ASSOCIATE DEGREE PROGRAM**

**BUSINESS MANAGEMENT MAJOR - A.S. DEGREE**

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-five (25) units required for the major.

**I. Required courses for the major**

<b>BUS</b>	<b>124</b>	<b>Introduction to Business</b>	<b>3.0</b>
BUS	126	Bus & the Legal Environment	3.0
BUS/AG	132	Business Management	3.0
BUS	210	Prin of Financial Accounting	4.0
BUS	260	Business Communications	3.0
CIS	101	Intro to Information Systems	3.0

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

BUS	010	Practical Accounting	3.0
BUS	060	Essentials of Workplace Corres	3.0
BUS	134	Management Concepts of Supervision	3.0
BUS	136	Human Relations in Mgmt	3.0
BUS	140	Business Retailing	3.0
BUS	142	Practical Salesmanship	3.0
BUS	144	Principles of Marketing	3.0
BUS	148	Personal Finance	3.0
BUS	220	Prin of Managerial Accounting	4.0
<b>CIS</b>	<b>102</b>	<b>Computer Applications Laboratory</b>	<b>1.0</b>
CIS	108	Computer Accounting	3.0
CIS	124	Excel I	1.0
CIS	125	Excel II	1.0
ECON	101	Intro to Micro Economics	3.0
ECON	102	Intro to Macro Economics	3.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0

REFERENCE: IVCmajCrtShts1112 - CLee 07/11/11

IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

**CERTIFICATE PROGRAM**

**BUSINESS MARKETING CERTIFICATE**

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 GRADE OF "C" OR BETTER.

Twenty-five (25) units required for the certificate

**I. Required courses for the certificate**

<b>BUS 124</b>	<b>Introduction to Business</b>	<b>3.0</b>
BUS 126	Bus & the Legal Environment	3.0
BUS/AG 132	Business Management	3.0
BUS 144	Principles of Marketing	3.0
BUS 210	Prin of Financial Accounting	4.0
BUS 260	Business Communications	3.0
CIS 101	Intro to Information Systems	3.0

**II. Acceptable courses for the certificate (minimum of three units from the following courses)**

BUS 010	Practical Accounting	3.0
BUS 060	Essentials of Wkpl Correspondence	3.0
BUS 134	Management Concepts of Supervision	3.0
BUS 136	Human Relations in Mgmt	3.0
BUS 140	Business Retailing	3.0
BUS 142	Practical Salesmanship	3.0
BUS 148	Personal Finance	3.0
BUS 220	Prin of Managerial Accounting	4.0
<b>CIS 102</b>	<b>Computer Applications Laboratory</b>	<b>1.0</b>
CIS 108	Computer Accounting	3.0
CIS 124	Excel I	1.0
CIS 125	Excel II	1.0
ECON 101	Intro to Microeconomics	3.0
ECON 102	Intro to Macroeconomics	3.0
WE 201	Employment Readiness	1.0
WE 220	Internship	1.0

**ASSOCIATE DEGREE PROGRAM**

**BUSINESS MARKETING MAJOR - A.S. DEGREE**

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-five (25) units required for the major

**I. Required courses for the major**

<b>BUS 124</b>	<b>Introduction to Business</b>	<b>3.0</b>
BUS 126	Bus & the Legal Environment	3.0
BUS/AG 132	Business Management	3.0
BUS 144	Principles of Marketing	3.0
BUS 210	Prin of Financial Accounting	4.0
BUS 260	Business Communications	3.0
CIS 101	Intro to Information Systems	3.0

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

BUS 010	Practical Accounting	3.0
BUS 060	Essentials of Wkpl Correspondence	3.0
BUS 134	Management Concepts of Supervision	3.0
BUS 136	Human Relations in Mgmt	3.0
BUS 140	Business Retailing	3.0
BUS 142	Practical Salesmanship	3.0
BUS 148	Personal Finance	3.0
BUS 220	Prin of Managerial Accounting	4.0
<b>CIS 102</b>	<b>Computer Applications Laboratory</b>	<b>1.0</b>
CIS 108	Computer Accounting	3.0
CIS 124	Excel I	1.0
CIS 125	Excel II	1.0
ECON 101	Intro to Micro Economics	3.0
ECON 102	Intro to Macro Economics	3.0
WE 201	Employment Readiness	1.0
WE 220	Internship	1.0

REFERENCE: IVCMajsCrtsShs1112 - CLee 07/11/11



**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**CERTIFICATE PROGRAM**

**BUSINESS OFFICE TECHNICIAN CERTIFICATE**

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 GRADE OF "C" OR BETTER.

**Twenty-eight (28) units and skill level required for the certificate.**

**I. Required courses for the certificate**

ENGL	060	Practical English for the Workplace	3.0
BUS	060	Essential in Workplace Corresdn	3.0
BUS	061	Business English	3.0
BUS	164	Office Tech & Procedures I	3.0
BUS	167	Machine Calculation	1.0
BUS	169	Records Management	2.0
BUS	172	Office Tech & Procedures II	3.0
BUS	176	Office Transcription	1.0
BUS	180	Microsoft Office for the Workplace	4.0
BUS	260	Business Communications	3.0
WE	201 *	Employment Readiness	1.0
WE	220 *	Internship	1.0
<b>Total:</b>			<b>28.0</b>

\* It is recommended that the work experience courses be taken after the completion of at least 12 units in the certificate  
 NOTE: ENGL 060 is recommended before BUS 060.  
 NOTE: BUS 060 is recommended before BUS 061.

**III. Required skill level for the certificate**

Keyboarding skill level 40 nwpm. (BUS 156, Keyboarding Speed & Accuracy, may be helpful in obtaining this speed level.)

**ASSOCIATE DEGREE PROGRAM**

**BUSINESS OFFICE TECHNICIAN MAJOR - A.S. DEGREE**

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	3.0
BUS	060	Essential in Workplace Corresdn	3.0
BUS	061	Business English	3.0
BUS	164	Office Tech & Procedures I	3.0
BUS	167	Machine Calculation	1.0
BUS	169	Records Management	2.0
BUS	172	Office Tech & Procedures II	3.0
BUS	176	Office Transcription	1.0
BUS	180	Microsoft Office for the Workplace	4.0
BUS	260	Business Communications	3.0
WE	201 *	Employment Readiness	1.0
WE	220 *	Internship	1.0
<b>Total:</b>			<b>28.0</b>

\* It is recommended that the work experience courses be taken after the 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.

**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.)

IMPERIAL VALLEY COLLEGE  
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**CERTIFICATE PROGRAMS**

**CHILD DEVELOPMENT CERTIFICATES**

All courses completed for the Certificates **MUST** be completed with a grade of "C" or better.  
FOR PERMIT INFORMATION SEE MATRIX ON REVERSE SIDE.

<b>Associate Teacher</b>		
<i>Complete the following:</i>		
CDEV 101	3.0	___
CDEV 102	1.0	___
CDEV 103	3.0	___
CDEV 104	3.0	___
CDEV 105	3.0	___
CDEV 106	3.0	___

Apply for the permit as soon as  
the classes are COMPLETED.

**THE FOLLOWING SPECIALIZATION CERTIFICATES DEMONSTRATE A COMPLETION OF SPECIALIZED COURSE WORK IN ADDITION TO THE MAJOR.**

<b>Administration Specialization</b> (Major plus 9 Units)	<b>Infant/Toddler Specialization</b> (Major plus 6 Units)	<b>School Age Specialization</b> (Major plus 6 Units)
<i>Complete the following:</i>	<i>Complete the following:</i>	<i>Complete the following:</i>
CDEV 210     3.0     ___	CDEV 220     ___	CDEV 230     ___
CDEV 211     3.0     ___	CDEV 221     ___	CDEV 231     ___
CDEV 212     3.0     ___		

NOTE: The Administration, Infant/Toddler and School Age Specialization Certificates will also meet the requirements for the Specialization field in applying for the Master Teacher Permit. See a Counselor for additional information on the Experience (hours) and Master Teacher Permit requirements.

**ASSOCIATE DEGREE PROGRAM**

**CHILD DEVELOPMENT MAJOR - A.S. DEGREE**

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 courses taken for the Major **MUST** be completed with grades of "C" or better.

**A minimum of twenty-nine (29) units required for the major.**

**I. Required Courses for the Major**

CDEV 100	Prin & Pract of Tchng Yng Chldrn	NEW	3.0
CDEV 101	Health, Safety and Nutrition	NEW	3.0
CDEV 102	First Aid & CPR for Tchrs of Yng Chldrn	Was CFCS 102	1.0
CDEV 103	Children, Family and Community	Was CFCS 104	3.0
CDEV/PSY 104	Child Growth and Development	Was CFCS 106	3.0
CDEV 105	Introduction to Curriculum	Was CFCS 110	3.0
CDEV 106	Observation and Assessment	NEW	3.0
CDEV 107	Teaching in a Diverse Society	NEW	3.0
CDEV 200	Practicum-Field Experience	Was CFCS 200	3.0
			<b>Sub-Total: 25.0</b>

**II. Select four to five units from the following (4.0-5.0; two courses):**

CDEV 120	Lang & Lit for Early Childhood	Was CFCS 112	2.0
CDEV 121	Art for Young Children	Was CFCS 114	2.0
CDEV 122	Science and Math for Early Childhood	Was CFCS 116	2.0
CDEV 123	Music & Mvmt for Early Childhd	Was CFCS 118	2.0
CDEV 124	Creative Cooking for Children	NEW	2.0
CDEV 125	Multilingual & Multicult Curr 4/Yng Chld	Was CFCS 262	3.0
<b>Grand Total/Required Units:</b>			<b>29.0-30.0</b>

**III. Recommended General Education Courses:**

ENGL 101	Reading & Composition	3.0
ENGL 201	Advanced Composition	3.0
SPCH 100	Oral Communication	3.0
MATH 119	Elementary Statistics	4.0

**PLEASE SEE A COUNSELOR FOR ASSISTANCE WITH THIS PROGRAM OF STUDY**

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**ASSOCIATE DEGREE PROGRAM**

**COMMUNICATION ARTS MAJOR - A.A. DEGREE**

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 (18 units)**

ENGL	250	Creative Writing	3.0
JRN	100	Introduction to Journalism	3.0
SPCH	100	Oral Communication	3.0
SPCH	110	Public Speaking	3.0
SPCH	120	Interpersonal Communication	3.0
SPCH	180	Argumentation and Debate	3.0
			<b>Total: 18.0</b>

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

BUS	260	Business Communications (3.0)	
<b>AJ</b>	<b>120</b>	<b>Public Safety Report Writing (3.0)</b>	<b>9.0</b>
ENGL	201	Advanced Composition (3.0)	
JRN	101	Multimedia News Writing & Reporting (3.0)	
JRN	102	Newspaper Production (3.0)	
PSY	130	Group Leadership & Group Process (3.0)	
PSY	144	Psy of Interpersonal Relationships (3.0)	
<b>SPCH</b>	<b>130</b>	<b>Small Group Communication (3.0)</b>	
THEA	100	Introduction to Theatre (3.0)	
THEA	120	Fundamentals of Acting (3.0)	
			<b>Total Units for Major: 27.0</b>

REFERENCE: IVCMajsCrtsShfts1112 - CLee 07/11/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

Certificate Terminated - Effective 11-12 - Curr Mtg 05/19/11

**ASSOCIATE DEGREE PROGRAM**

**COMPUTER INFORMATION SYSTEMS MAJOR - A.S. DEGREE**

This program provides the lower division coursework for advanced degrees and should be followed if a student's goal is to transfer to a four-year institution for continued study in computer information systems. 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.

**Career Opportunities**

This program provides a student with the courses needed to transfer to a four-year institution. If the student completes a four-year degree, career opportunities include database administrator, systems analyst, and information specialist.

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

**Thirty (30) units required for the major.**

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

BUS	126	Business and the Legal Environment	3.0
BUS	210	Prin of Financial Accounting	4.0
BUS	220	Prin of Managerial Accounting	4.0
<b>CIS</b>	<b>101</b>	<b>Introduction to Information Systems</b>	<b>3.0</b>
CIS	125	Excel II	1.0
ECON	101	Introduction to Micro Economics	3.0
ECON	102	Introduction to Macro Economics	3.0
		<b>Select six (6) programming units:</b>	<b>6.0</b>
CIS	202	Programming in Visual Basic (3.0)	
CIS	210	Programming in C++ (3.0)	
CS	170	Introduction to Unix/Linux (3.0)	
CS	220	Intro to Object-Oriented Prog Using Java (4.0)	
		<b>Sub-Total:</b>	<b>27.0</b>

**II. Select at least three (3) elective units (programming courses taken above may not be used to satisfy this requirement):**

BUS	260	Business Communications	3.0
CIS	104	Intro to Telecommunications	3.0
CIS	108	Computer Accounting	3.0
CIS	110	Windows Operating System	1.0
CIS	124	Excel I	1.0
CIS	128	Access	1.0
CIS	137	<b>Web Development Tools</b>	<b>3.0</b>
CIS	155	Flash	3.0
CIS	160	CISCO IT Essentials: Hardware & Software	4.0
CIS	202	Programming in Visual Basic	3.0
CIS	210	Programming in C++	3.0
CIS	212	XHTML, CSS, and Javascript	3.0
CIS	214	PHP and MySQL	3.0
CS	170	Introduction to Unix/Linux	3.0
CS	220	Intro to Object-Oriented Prog Using Java	4.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0-4.0

REFERENCE: IVCmajCrtsShs1112 - CLee 07/11/11 Updated 10/09/11 Corrected 11/23/11 CLee

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**ASSOCIATE DEGREE PROGRAM**

**COMPUTER SCIENCE MAJOR - A.S. DEGREE**

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	4.0
CS	280	Assembly Language and Machine Organization	4.0
MATH	119	Elementary Statistics	4.0
MATH	192	Calculus I	5.0
MATH	194	Calculus II	5.0
<b>Total:</b>			<b>22.0</b>

**II. Select a minimum of nine (9) units from the following courses to include at least one (1) mathematics course, and (1) science course.**

BIOL	180	General Biology: Molecules, Cells, & Genetics	4.0
BIOL	182	General Biology: Principles of Organismal Biology	4.0
CHEM	200	General Inorganic Chemistry I	5.0
CHEM	202	General Inorganic Chemistry II	5.0
CS	170	Introduction to Unix/Linux	3.0
MATH	230	Introduction to Linear Algebra with Applications	3.0
MATH	240	Discrete Mathematics	3.0
PHYS	200	General Physics I	5.0
PHYS	202	General Physics II	5.0
PHYS	204	General Physics III	5.0

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.

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**CERTIFICATE PROGRAM**

**CORRECTIONAL SCIENCE CERTIFICATE**

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

Twenty-four (24) units required for the certificate

**I. Required courses for the certificate**

<b>AJ</b>	<b>102</b>	<b>Concepts of Criminal Law</b>	<b>3.0</b>
<b>AJ</b>	<b>120</b>	<b>Public Safety Report Writing</b>	<b>3.0</b>
CSI	100	Intro to Corrections	3.0
CSI	106	Correctional Interviewing & Counseling	3.0
CSI	108	Control & Supervision of Inmates	3.0
<b>Total:</b>			<b>15.0</b>

**II. Select nine (9) units from the following courses:**

AJ	080	Security Guard (Arrest)	0.5
AJ	100	Intro to Administration of Justice	3.0
AJ	110	<b>Law Enforcement Community Relations</b>	3.0
AJ	122	Criminal Investigation	3.0
AJ	123	Juvenile Control	3.0
AJ	141	Arrest & Firearms	3.5
CSI	104	Concepts of Probation & Parole	3.0
ENGL	101	Reading & Composition	3.0

**ASSOCIATE DEGREE PROGRAM**

**CORRECTIONAL SCIENCE MAJOR - A.S. DEGREE**

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**

<b>AJ</b>	<b>102</b>	<b>Concepts of Criminal Law</b>	<b>3.0</b>
<b>AJ</b>	<b>120</b>	<b>Public Safety Report Writing</b>	<b>3.0</b>
CSI	100	Intro to Corrections	3.0
CSI	106	Correctional Interviewing & Counseling	3.0
CSI	108	Control & Supervision of Inmates	3.0
<b>Total:</b>			<b>15.0</b>

**II. Select nine (9) units from the following courses:**

AJ	080	Security Guard (Arrest)	0.5
AJ	100	Intro to Administration of Justice	3.0
AJ	110	<b>Law Enforcement Community Relations</b>	3.0
AJ	122	Criminal Investigation	3.0
AJ	123	Juvenile Control	3.0
AJ	141	Arrest & Firearms	3.5
CSI	104	Concepts of Probation & Parole	3.0

**III. Recommended courses (do NOT fulfill major requirements).**

ENGL 101, PSY 101, SPAN 100 (or other foreign language), CIS 101, PE 100, PE 101, or SPCH 100.

REFERENCE: IVCMajsCrtsShts1112 - CLee 07/11/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**CERTIFICATE PROGRAM**

**COURT SERVICES SPECIALIST CERTIFICATE**

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.

**Seventeen (17) units required for the certificate**

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

<b>I. Required courses for the certificate</b>			
CIS	101	Intro to Information Systems	3.0
CIS	120/121	Microsoft Word I or II	1.0
CIS	124/125	EXCEL I or II	1.0
<b>II. Acceptable courses for the certificate (12 Units):</b>			
<b>- Select ONE course from the following:</b>			<b>3.0</b>
AJ	100	Intro to Admin of Justice (3.0)	
<b>AJ</b>	<b>102</b>	<b>Concepts of Criminal Law (3.0)</b>	
AJ	106	Prin & Proceod of the Justice System (3.0)	
<b>- Select ONE course from the following:</b>			<b>3.0</b>
BUS	260	Business Communications (3.0)	
<b>- Select ONE course from the following:</b>			<b>3.0</b>
BUS	126	Bus & the Legal Environment (3.0)	
BUS	136	Human Relations in Management (3.0)	
<b>- Select ONE course from the following :</b>			<b>3.0</b>
LEGL	119	Civil Procedures and Discovery (3.0)	
LEGL	121	Legal Research (3.0)	
POLS	100	Introduction to Political Science (3.0)	
POLS	102	American Government and Politics (3.0)	
<b>Total:</b>			<b>17.0</b>

REFERENCE: IVCMajsCrtsShs1112 - CLee 07/11/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**CERTIFICATE PROGRAM****CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION BREADTH (CSU GE-B)  
CERTIFICATE**

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-Breadth 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 GRADE OF "C" OR BETTER.



REFERENCE: IVCMajsCrtsShts1112 - CLee 07/11/11



**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**CERTIFICATE PROGRAM**

**DENTAL ASSISTANT CERTIFICATE**

The Dental Assistant Program prepares students for the high demand field of professional dental assisting. Dental assistants are a significant and valuable member of the dental health care team. Students are trained to perform a wide variety of duties including working chairside as patients are examined and treated, taking and developing dental radiographs, removing sutures, and applying anti-cavity agents to teeth. Dental assisting students are also taught to perform laboratory duties such as taking and pouring impressions and making temporary crowns. Additionally, the Dental Assistant Program offers curriculum on executing office duties like scheduling and confirming patients, filing patient treatment records, billing, and ordering dental supplies. The Dental Assistant Program at Imperial includes patient care practice in fully-equipped, off-campus externship experiences.

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

**Career Opportunities**

Completing students will be able to work in various dental office settings. In addition to traditional dental practices, dental assistants have the opportunity to work in specialty areas, such as: Oral and maxillofacial surgery, Orthodontics and dentofacial orthopedics, Endodontics, Periodontics, Prosthodontics, and Pediatric dentistry.

**Thirty (30) units required for the certificate.**

**I. Required courses for the certificate**

AHP	100	Medical Terminology	3.0
DA	101	Introduction to Dental Assisting	3.0
DA	102	Beginning Radiology	3.0
DA	103	Dental Materials for the Dental Assistant	3.0
DA	104	Occupational Health for the Dental Assistant	1.0
DA	105	Introduction to Chairside Dental Assisting	2.0
DA	106	Dental Specialties	2.0
DA	107	Advanced Dental Assisting	2.0
DA	108	Practice Management for the Dental Assistant	3.0
DA	109	Clinical Dental Experiences	3.0
DA	110	Ethics and Jurisprudence	1.0
DA	111	Dental Assisting Seminar	2.0
DA	112	Dental Health Education	2.0
<b>Total Units:</b>			<b>30.0</b>

**ASSOCIATE DEGREE PROGRAM**

**DENTAL ASSISTANT MAJOR - A.S. DEGREE**

The Dental Assistant Program prepares students for the high demand field of professional dental assisting. Dental assistants are a significant and valuable member of the dental health care team. Students are trained to perform a wide variety of duties including working chairside as patients are examined and treated, taking and developing dental radiographs, removing sutures, and applying anti-cavity agents to teeth. Dental assisting students are also taught to perform laboratory duties such as taking and pouring impressions and making temporary crowns. Additionally, the Dental Assistant Program offers curriculum on executing office duties like scheduling and confirming patients, filing patient treatment records, billing, and ordering dental supplies. The Dental Assistant Program at Imperial includes patient care practice in fully-equipped, off-campus externship experiences.

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

**Career Opportunities**

Completing students will be able to work in various dental office settings. In addition to traditional dental practices, dental assistants have the opportunity to work in specialty areas, such as: Oral and maxillofacial surgery, Orthodontics and dentofacial orthopedics, Endodontics, Periodontics, Prosthodontics, and Pediatric dentistry.

**Thirty (30) units required for the major.**

**I. Required courses for the major**

AHP	100	Medical Terminology	3.0
DA	101	Introduction to Dental Assisting	3.0
DA	102	Beginning Radiology	3.0
DA	103	Dental Materials for the Dental Assistant	3.0
DA	104	Occupational Health for the Dental Assistant	1.0
DA	105	Introduction to Chairside Dental Assisting	2.0
DA	106	Dental Specialties	2.0
DA	107	Advanced Dental Assisting	2.0
DA	108	Practice Management for the Dental Assistant	3.0
DA	109	Clinical Dental Experiences	3.0
DA	110	Ethics and Jurisprudence	1.0
DA	111	Dental Assisting Seminar	2.0
DA	112	Dental Health Education	2.0
<b>Total Units:</b>			<b>30.0</b>

REFERENCE: IVCMajSctsShs1112 CLee Approved 10/23/11 Corrected 11/23/11 C. Lee

IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

**EARLY CHILDHOOD EDUCATION**

**Associate in Science Degree in Early Childhood Education for Transfer (AS-T)**  
Twenty-four (24.0) units required for the major.

Early Childhood Education is the study of the physical, socio-emotional and cognitive growth and development of the child from conception through adolescence. The purposes of this major are to provide a sound academic program in child development and to prepare students to work with children and families in a variety of school and community settings. Early Childhood Education students pursue careers in day care and community college teaching; or work with a variety of counseling, social service and community agencies. **The Associate in Science In Early Childhood Education for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major, on the "Requirements for the AA-T or AS-T."**

Requirements for the Associate in Arts in Sociology for Transfer:

1. Completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
  - (a) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
  - (b) A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

This associate's degree is for transfer to a CSU institution only. However, other institutions may recognize this associate's degree for admission purposes as well. Please consult with a counselor for assistance.

**Career Possibilities**

Please note that many of the career possibilities listed below require additional education beyond a baccalaureate degree.  
Adoption Counselor • Before and After School Teacher/Director • Child Life Specialist • Community College Instructor • Counselor with a choice of specializations – Career, Community, Marriage, Family and Child, or School • Early Childhood Special Education Specialists • Elementary School Teacher • Employer-Sponsored Child Care Teacher/Director • Infant Day Care Teacher/Director • Parent Education Instructor • Pediatric Psychologist • Preschool Teacher or Administration • Resource and Referral Coordinator • Social Worker

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

**REQUIREMENTS**

**I. Units/GPA** – Must complete a maximum of 60 CSU-transferable semester units with a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. *NOTE: While a minimum of 2.0 is required for admission, some institutions and majors may require a higher GPA. Please consult with a counselor for more information.*

**II. General Education** – Must complete one of the following general education transfer patterns:

- A. California State University General Education Breadth Pattern (CSU GE-B) – 39 units minimum
- B. Intersegmental General Education Transfer Curriculum (IGETC) – 37 units minimum

**III. Associate Degree Major Core – 24.0 units**

<b>Required Core</b>			
CDEV 100	Prin & Practices of Tchng Yng Chldrn		3.0
CDEV 101	Health, Safety and Nutrition		3.0
CDEV 103	Children, Family and Community		3.0
CDEV/PE 104	Child Growth and Development		3.0
CDEV 105	Introduction to Curriculum		3.0
CDEV 106	Observation and Assessment		3.0
CDEV 107	Teaching in a Diverse Society		3.0
CDEV 200	Practicum-Field Experience		3.0
	<b>Total Units:</b>		<b>24.0</b>
Total Major Units			
	CSU-GE or IGETC pattern		24.0
	Transferable Electives (as needed to reach 60 transferable units)		37.0-39.0
	<b>Total Maximum Units</b>		<b>60.0</b>

REFERENCE: IVCMajsCrtsShts1112 - CLee Approved October 23, 2011

IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

**CERTIFICATE PROGRAM**

**ELECTRICAL TECHNOLOGY CERTIFICATE**

The Electrical Technology major and certificate is designed to provide students with the comprehensive understanding and manipulative skills, technical knowledge, and related trade information required to become technicians or operators in industrial technology and energy related industries or light manufacturing equipment.

This program will allow students to comply with the necessary requirements for certification up to Grade I level. Once the student becomes a state certified operator, he or she will qualify to seek employment in the industrial technology disciplines anywhere in the state.

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

**Twenty (20) Units required for the certificate:**

**Required courses for the certificate**

BLDC	101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0
EWIR	110	Electrical Principles	4.0
EWIR	115	Electrical Wiring and Protection	4.0
ELTR	120	Electronic Devices	4.0
ELTR	140	Electronic Circuits & Semiconductors	4.0
WE	201	Employment Readiness	1.0
<b>TOTAL UNITS:</b>			<b>20.0</b>

**SPECIALIZATION CERTIFICATE(S)**

The Specialization Certificate(s) demonstrates a completion of coursework in addition to the major in Electrical Technology.

ALL REQUIRED COURSES FOR THESE CERTIFICATE(S) MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

**ELECTRICAL TECHNOLOGY: ELECTRICAL WIRING SPECIALIZATION**

**Major plus 9 units**

Specialization Certificate in Electrical Wiring is designed to provide students and entry level operators seeking higher grade level and specific understanding and skills, technical knowledge, and related trade information on electrical installations. It will prepare students in electrical residential installations. Once the student finishes this program, he or she will qualify to seek employment in the electrical and energy sector anywhere in the State.

EWIR	125	Electrical Feeder Services and Circuits	4.0
EWIR	135	Electrical Equipment & Special Conditions	4.0
WE	220	Internship	1.0
<b>Total:</b>			<b>9.0</b>

**SPECIALIZATION CERTIFICATE(S) - Continued**

**ELECTRICAL TECHNOLOGY: ELECTRONICS SPECIALIZATION**

**Major plus 7 units**

Specialization Certificate in Electronics is designed to provide students and entry level seeking higher grade level and specific understanding and skills, technology, and related trade information on electronic equipment based on semiconductor devices and microchips, including data acquisition equipment and software for virtual instrumentation.

ELTR	220	Digital Instrumentation Measurements	3.0
ELTR	240	Digital Logic Circuits	3.0
WE	220	Internship	1.0
<b>Total:</b>			<b>7.0</b>

**ELECTRICAL TECHNOLOGY: SOLAR ENERGY SPECIALIZATION**

**Major plus 18 units**

Specialization Certificate in Solar Energy is designed to provide students and entry level seeking higher grade level and specific understanding and skills, technical knowledge, and related information on Solar technology and installation of related equipment such as power inverters and data acquisition software.

ELTR	220	Digital Instrumentation Measurements	3.0
ELTR	240	Digital Logic Circuits	3.0
EWIR	150	Solar Energy Systems	3.0
EWIR	151	Solar Electrical Systems	4.0
EWIR	160	Alternative Energies	4.0
WE	220	Internship	1.0
<b>Total:</b>			<b>18.0</b>

**ASSOCIATE DEGREE PROGRAM**

**ELECTRICAL TECHNOLOGY MAJOR - A.S. DEGREE**

The Electrical Technology major and certificate is designed to provide students with the comprehensive understanding and manipulative skills, technical knowledge, and related trade information required to become technicians or operators in industrial technology and energy related industries or light manufacturing equipment.

This program will allow students to comply with the necessary requirements for certification up to Grade I level. Once the student becomes a state certified operator, he or she will qualify to seek employment in the industrial technology disciplines anywhere in the state.

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

**Twenty (20) Units required for the major:**

**Required courses for the major**

BLDC	101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0
EWIR	110	Electrical Principles	4.0
EWIR	115	Electrical Wiring and Protection	4.0
ELTR	120	Electronic Devices	4.0
ELTR	140	Electronic Circuits & Semiconductors	4.0
WE	201	Employment Readiness	1.0
<b>TOTAL UNITS:</b>			<b>20.0</b>

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**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**CERTIFICATE PROGRAM**

**ELECTRICAL TRADES CERTIFICATE**

The Electrical Trades certificate program prepares the student for continued education and training in any or all of the following electrical apprenticeship programs: Electrical, Generation Mechanic, Lineman, Meter Technician, System Protection Technician, ADA/Telecommunications, and Substation. This certificate is equivalent to the first four courses of related supplemental instruction (RSI) which are part of the four-year apprenticeship certificate programs for which Imperial Valley College (IVC) is the local educational agency (LEA) and the Imperial Irrigation District (IID) is the sponsoring employer. Applicants for these apprenticeship programs should be directed to the Imperial Irrigation District located at 333 East Barioni Boulevard, Imperial, California 92251 (760-482-9640).

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

**Nineteen (19) units required for the certificate:**

BLDC	101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0
ELTT	101	Electrical Trades I	4.0
ELTT	102	Electrical Trades II	4.0
ELTT	103	Electrical Trades III	4.0
ELTT	104	Electrical Trades IV	4.0
<b>TOTAL:</b>			<b>19.0</b>

**ASSOCIATE DEGREE**

**ELECTRICAL TRADES MAJOR - A.S. DEGREE**

The Electrical Trades degree program prepares the student for continued education and training in any or all of the following electrical apprenticeship programs: Electrical, Generation Mechanic, Lineman, Meter Technician, System Protection Technician, ADA/Telecommunications, and Substation. This certificate is equivalent to the first four courses of related supplemental instruction (RSI) which are part of the four-year apprenticeship certificate programs for which Imperial Valley College (IVC) is the local educational agency (LEA) and the Imperial Irrigation District (IID) is the sponsoring employer. Applicants for these apprenticeship programs should be directed to the Imperial Irrigation District located at 333 East Barioni Boulevard, Imperial, California 92251 (760-482-9640).

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

**Nineteen (19) units required for the major:**

BLDC	101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0
ELTT	101	Electrical Trades I	4.0
ELTT	102	Electrical Trades II	4.0
ELTT	103	Electrical Trades III	4.0
ELTT	104	Electrical Trades IV	4.0
<b>TOTAL:</b>			<b>19.0</b>

REFERENCE: IVCMajsCrtsShts1112 - CLee 07/11/11

IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

**CERTIFICATE PROGRAM**

**EMERGENCY MEDICAL SERVICES CERTIFICATE**

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 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	3.0
EMT	105	Emer. Medical Technician I (or state certification)	7.5

**II. Required courses for the certificate**

EMTP	200	EMT - Paramedic Didactic 1	9.0
EMTP	210	EMT - Paramedic Didactic 2	9.0
EMTP	215	EMT - Paramedic Didactic 3	5.0
EMTP	225	EMT - Paramedic Clinical 1	3.5
EMTP	235	EMT - Paramedic Field 1	6.5
EMTP	245	EMT - Paramedic Field 2	5.5

**Total Units: 38.5**

**ASSOCIATE DEGREE PROGRAM**

**EMERGENCY MEDICAL SERVICES MAJOR - A.S. DEGREE**

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 are required for this major.**

**I. Prerequisites for the major**

BIOL	090	Anatomy & Physiology for Health Occupations	3.0
EMT	105	Emer. Medical Technician I (or state certification)	7.5

**II. Required courses for the major**

EMTP	200	EMT - Paramedic Didactic 1	9.0
EMTP	210	EMT - Paramedic Didactic 2	9.0
EMTP	215	EMT - Paramedic Didactic 3	5.0
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 (3.0)	3.0
BUS	136	Human Relations in Management (3.0)	3.0

**TOTAL UNITS: 41.5**

REFERENCE: IVCMajCrtsShts1112 - CLee 07/11/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**ASSOCIATE DEGREE PROGRAM**

**ENGLISH MAJOR - A.A. DEGREE**

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	3.0
ENGL	102	Introduction to Literature	3.0
ENGL	201	Advanced Composition	3.0
<b>Total:</b>			<b>9.0</b>

**II. Acceptable courses for the major (9 units from the following courses)**

ENGL	220	Survey of American Literature I	3.0
ENGL	221	Survey of American Literature II	3.0
ENGL	222	Survey of World Literature	3.0
ENGL	223	Survey of World Literature	3.0
ENGL	224	Survey of English Literature	3.0
ENGL	225	Survey of English Literature	3.0
ENGL/HUM	226	Introduction to Mythology	3.0
ENGL	228	Intro to the Bible as Literature	3.0
ENGL/HUM	230	Intro to Film Hist & Criticism	3.0
ENGL	250	Creative Writing	3.0
ENGL	270	Introduction to Linguistics	3.0

REFERENCE: IVCMajsCrtsShts1112 - CLee 07/11/11

IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

**CERTIFICATE PROGRAM**

**FIRE TECHNOLOGY CERTIFICATE**

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 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	3.0
FIRE	101	Fire Prevention Technology	3.0
FIRE	102	Fire Protection Equipment & Systems	3.0
FIRE	103	Bldg Construction for Fire Protection	3.0
FIRE	104	Fire Behavior and Combustion	3.0
FIRE	108	Fire & Emergency Services Safety and Survival	3.0
			<b>Total: 18.0</b>

**II. Select 15 units from the following acceptable courses for the certificate**

<b>AJ</b>	<b>120*</b>	<b>Public Safety Report Writing</b>	<b>3.0</b>
CIS	101	Introduction to Information Systems	3.0
FIRE/EMT	105*	Emergency Medical Technician I	7.5
FIRE	109*	Hazardous Materials 1st Responder	2.0
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 Instructor 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.

**ASSOCIATE DEGREE PROGRAM**

**FIRE TECHNOLOGY MAJOR - A.S. DEGREE**

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 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	3.0
FIRE	101	Fire Prevention Technology	3.0
FIRE	102	Fire Protection Equipment & Systems	3.0
FIRE	103	Bldg Construction for Fire Protection	3.0
FIRE	104	Fire Behavior and Combustion	3.0
FIRE	108	Fire & Emergency Services Safety and Survival	3.0
			<b>Total: 18.0</b>

**II. Select 15 units from the following acceptable courses for the major**

<b>AJ</b>	<b>120*</b>	<b>Public Safety Report Writing</b>	<b>3.0</b>
CIS	101	Introduction to Information Systems	3.0
FIRE/EMT	105*	Emergency Medical Technician I	7.5
FIRE	109*	Hazardous Materials 1st Responder	2.0
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 Instructor 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.

REFERENCE: IVCMajsCrtShts1112 - CLee 07/11/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**CERTIFICATE PROGRAM**

**FIREFIGHTER I CERTIFICATE**

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 be 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 candidate's 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-five and one-half (25.5) units required for the certificate**

**Required courses for the certificate**

FIRE/EMT	105	Emergency Medical Technician I	7.5
FIRE	109	Hazardous Materials for First Responders	2.0
FIRE	121	ICS 200 Incident Command System	1.0
FIRE	122	Confined Space Awareness	0.5
FIRE	130	Basic Fire Academy I	5.5
FIRE	131	Basic Fire Academy II	6.0
PE	100	Lifetime Exercise Science	2.0
PE	104	Weight Training	1.0
<b>Total:</b>			<b>25.5</b>



REFERENCE: IVCMajsCrtisShts1112 - CLee 07/11/11



IMPERIAL VALLEY COLLEGE  
 2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

**ASSOCIATE DEGREE PROGRAM**

**FRENCH MAJOR - A.A. DEGREE**

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

**Twenty-three (23) units required for the major**

**I. Required courses for the major**

FREN	100	Elementary French I	5.0
FREN	110	Elementary French II	5.0
FREN	201	Intermediate French I	5.0
FREN	211	Intermediate French II	5.0
<b>Total:</b>			<b>20.0</b>

**II. Acceptable courses for the major (select a minimum of one course from the following courses)**

FREN	220	Inter Fren Read & Writ	3.0
FREN	230	Inter Conversational French I	3.0
FREN	232	Inter Conversational French II	3.0

REFERENCE: IVCmajCrtsStts1112 - CLee 07/11/11

IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

**ASSOCIATE DEGREE PROGRAM**

**GENERAL SCIENCE MAJOR - A.S. DEGREE**

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

**Minimum eighteen (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.

**AREA I - Select one (1) course from the following:**

ANTH	100	Physical Anthropology	3.0
BIOL	100	Prin of Biological Science	4.0
BIOL	120	General Zoology I	4.0
BIOL	122	General Zoology II	4.0
BIOL	140	General Botany	3.0
BIOL	150	Human Genetics	3.0
BIOL	180	Gen Biol: Molecules/Cells/Genetics	4.0
BIOL	182	Gen Biol: Prin of Organismal Biology	4.0

**AREA II - Select one (1) course from the following:**

ASTR	100	Principles of Astronomy	3.0
CHEM	100	Intro to Chemistry	4.0
CHEM	160	Intro to General, Organic & BioChem	5.0
ENVS/AG	110	Environmental Science	3.0
GEOG	100	Physical Geography	3.0
GEOG	100	General Geology	4.0
GEOG	110	Earth and Space Science	3.0
PHSC	110	Physical Science	3.0

**AREA III - Select remaining courses from the following to reach eighteen (18) units**

BIOL	200	Human Anatomy & Physio I	4.0
BIOL	202	Human Anatomy & Physio II	4.0
BIOL	204	Human Anatomy	4.0
BIOL	206	Human Physiology	4.0

*Continued on next column*

**AREA III - Continued**

BIOL	220	General Microbiology	5.0
CHEM	200	General Inorganic Chemistry I	5.0
CHEM	202	General Inorganic Chemistry II	5.0
CHEM	204	Organic Chemistry I	5.0
CHEM	206	Organic Chemistry II	5.0
CS	220	Intro to Object Oriented Prog Using Java	4.0
MATH	190	Pre-Calculus	5.0
MATH	192	Calculus I	5.0
MATH	194	Calculus II	5.0
MATH	210	Calculus III	5.0
PHYS	200	General Physics I	5.0
PHYS	202	General Physics II	5.0
PHYS	204	General Physics III	5.0

REFERENCE: IVCmajCrtsShs1112 - CLee 07/11/11

IMPERIAL VALLEY COLLEGE  
 2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

**ASSOCIATE DEGREE PROGRAM**

**HISTORY MAJOR - A.A. DEGREE**

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	3.0
HIST	101	Modern World History	3.0
HIST	120	United States History to 1877	3.0
HIST	121	United States History since 1877	3.0

**II. Electives - Select nine (9) units from:**

**9.0**

HIST	110	Early Western Civilization (3.0)
HIST	111	Modern Western Civilization (3.0)
HIST/LAS	130	Early Latin America (3.0)
HIST/LAS	131	Modern Latin America (3.0)
HIST/LAS	132	History of Mexico (3.0)
HIST	140	East Asian History (3.0)
HIST	150	Survey of African History (3.0)
HIST	160	Middle Eastern from 600 (3.0)
HIST	220	Women in American History (3.0)
HIST	222	History of California (3.0)
HIST	223	History of the American West (3.0)
HIST/LAS	225	Mexican American History (3.0)

**III. Capstone - Three (3) units:**

HIST	280	Research Topics in History	3.0
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**Total Units: 24.0**

REFERENCE: IVCMajsCrtsShs1112 - CLee 07/11/11

IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

**CERTIFICATE PROGRAM**

**HUMAN RELATIONS CERTIFICATE**

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 GRADE OF "C" OR BETTER.

**Twenty-four (24) units required for the certificate**

I. Required courses for the major			
ADS/PSY	120	Intro to Counseling	3.0
ADS/PSY	220 OR 221	Practicum	3.0
PSY	101	Intro to Psychology	3.0
PSY	142	Psych of Adjustment	3.0
SOC	101	Introductory Sociology	3.0
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	3.0
ADS/PSY	210	Crisis Intervention & Referral Tech	3.0
ANTH	102	Cultural Anthropology	3.0
BUS	134	Mgmt Concepts of Supervision	3.0
BUS	136	Human Relations in Mgmt	3.0
CDEV/PSY	104	Child Growth & Devevelopment	3.0
CIS	101	Intro to Information Systems	3.0
COUN	100	Personal & Career Development (Was PD 100)	3.0
MATH	119	Elementary Statistics	4.0
PSY	144	The Psych of Interpersonal Relationships	3.0
PSY	200	Biological Psychology	3.0
PSY	202	Learning	3.0
PSY	204	Dev Psych: Conception to Death	3.0
PSY/SOC	206	Social Psychology	3.0
PSY	208	Abnormal Psychology	3.0
SOC	102	Contemp Social Problems	3.0
SOC	110	Marriage & the Family	3.0

**ASSOCIATE DEGREE PROGRAM**

**HUMAN RELATIONS MAJOR - A.A. DEGREE**

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 (24) units required for the major**

I. Required courses for the major			
ADS/PSY	120	Intro to Counseling	3.0
ADS/PSY	220 OR 221	Practicum	3.0
PSY	101	Intro to Psychology	3.0
PSY	142	Psych of Adjustment	3.0
SOC	101	Introductory Sociology	3.0
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	3.0
ADS/PSY	210	Crisis Intervention & Referral Tech	3.0
ANTH	102	Cultural Anthropology	3.0
BUS	134	Mgmt Concepts of Supervision	3.0
BUS	136	Human Relations in Mgmt	3.0
CDEV/PSY	104	Child Growth & Devevelopment	3.0
CIS	101	Intro to Information Systems	3.0
COUN	100	Personal & Career Development (Was PD 100)	3.0
MATH	119	Elementary Statistics	4.0
PSY	144	The Psych of Interpersonal Relationships	3.0
PSY	200	Biological Psychology	3.0
PSY	202	Learning	3.0
PSY	204	Dev Psych: Conception to Death	3.0
PSY/SOC	206	Social Psychology	3.0
PSY	208	Abnormal Psychology	3.0
SOC	102	Contemp Social Problems	3.0
SOC	110	Marriage & the Family	3.0

REFERENCE: IVCMajsCrisShts1112 - CLee 07/11/11

IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

**ASSOCIATE DEGREE PROGRAM**

**HUMANITIES MAJOR - A.A. DEGREE**

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. Three units required from the following:**

HUM 100 Intro to the Humanities 3.0

**II. Must select six units from the following:**

ART 100 Hist & Appreciation of Art I 3.0  
 ART 102 Hist & Appreciation of Art II 3.0  
 ART 104 Hist & Apprec of Mod Art 3.0  
 ART 106 Women Artists 3.0  
 MUS 200 Hist & Lit of Music I 3.0  
 MUS 202 Hist & Lit of Music II 3.0

**III. Must select six units from the following:**

ART 100 Hist & Appreciation of Art I 3.0  
 ART 102 Hist & Appreciation of Art II 3.0  
 ART 104 Hist & Apprec of Modern Art 3.0  
 ART 106 Women Artists 3.0  
 ART 110 Design 3.0  
 ART 120 Drawing I 3.0  
 ART 130 Life Drawing 3.0  
 ART 140 Ceramics 3.0  
 ART 228 Exploration of Paint Tech 2.0  
 ART 262 Gallery Display 3.0  
 MUS 100 Intro to Music Foundations 3.0  
 MUS 102 Intro to Music Literature & Listening 3.0  
 MUS 104 Intro to 20th Century Music 3.0  
 MUS 110 Beginning Musicianship 2.0  
 MUS 120 Beginning Harmony 3.0  
 MUS 154 Chamber Singers 1.0  
 MUS 156 College-Community Chorus 1.0  
 MUS 171 Chamber Orchestra 1.0

**III. Must select six units from the following (CONTINUED):**

MUS 172 Community Band 1.0  
 MUS 175 Instrumental Ensemble 1.0  
 MUS 178 Symphony Orchestra 1.0  
 MUS 200 Hist & Lit of Music I 3.0

**IV. Must select three units from the following:**

HIST 110 Early Western Civilization (3.0) 3.0  
 HIST 111 Modern Western Civilization (3.0) 3.0  
 PHIL 100 Intro to Philosophy I 3.0  
 PHIL 102 Intro to Philosophy II 3.0  
 RELS 100 Religions of the Mod World 3.0

**V. Must select six units from the following:**

AMSL 100 American Sign Language 1 4.0  
 AMSL 102 American Sign Language 2 4.0  
 ENGL 102 Intro to Literature 3.0  
 ENGL 222 Survey of World Literature 3.0  
 ENGL 223 Survey of World Literature 3.0  
 ENGL/HUM 226 Introduction to Mythology 3.0  
 ENGL 250 Creative Writing 3.0  
 FREN 100 Elementary French I 5.0  
 FREN 110 Elementary French II 5.0  
 SPAN 100 Elementary Spanish I 5.0  
 SPAN 110 Elementary Spanish II 5.0  
 SPAN 220 Bilingual Spanish I 5.0  
 SPAN 221 Bilingual Spanish II 5.0  
 SPCH 100 Oral Communication 3.0  
 SPCH 110 Intermediate Public Speaking 3.0  
 SPCH 180 Argumentation & Debate 3.0  
 THEA 120 Fundamentals of Acting 3.0

REFERENCE: IVCMajCrtsShts1112 - CLee 07/11/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**CERTIFICATE PROGRAM****INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)  
CERTIFICATE**

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 GRADE OF "C" OR BETTER.



REFERENCE: IVCMajsCrtsShs1112 - CLee 07/11/11

IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

ASSOCIATE DEGREE PROGRAM

JOURNALISM MAJOR - A.S. DEGREE

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	3.0
JRN	101	Multimedia News Writing & Reporting	3.0
CIS	137	<b>Web Development Tools</b>	<b>3.0</b>
CIS	149	Photoshop	3.0
			<b>Total: 12.0</b>

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

ART	160	Graphic Design	3.0
CIS	155	Flash	3.0
ENGL	102	Intro to Literature	3.0
ENGL/HUM	230	Intro to Film Hist & Criticism	3.0
ENGL	250	Creative Writing	3.0
JRN	102	Newspaper Production	3.0
JRN	104	Career Journalism	3.0
JRN	106	Photojournalism	3.0
JRN	108	Critical Reasoning and Writing	3.0
POLS	102	Amer Government & Politics	3.0
SOC	102	Contemporary Social Problems	3.0
SPCH	100	Oral Communication	3.0

REFERENCE: IVCMajsCrtsShs1112 - CLee 07/11/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**CERTIFICATE PROGRAM**

**LEGAL ASSISTANT CERTIFICATE**

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 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	3.0
ENGL	101	Reading and Composition	3.0
LEGL	115	Legal Procedures	3.0
LEGL	116	Law Office Management	3.0
LEGL	117	Criminal Litigation and Procedures	3.0
LEGL	119	Procedures and Discovery	3.0
LEGL	120	Corporations	3.0
LEGL	121	Legal Research	3.0
<b>Sub Total:</b>			<b>24.0</b>

**II. Acceptable courses for the certificate (select a minimum of 3 units from the following courses):**

LEGL	125	Real Estate Law for Legal Assistants (3.0)	3.0
LEGL	126	Wills, Trusts, Probate & Estate Admin (3.0)	
LEGL	127	Family Law (3.0)	
LEGL	128	Bankruptcy (3.0)	
LEGL	129	Torts (3.0)	
WE	201	Employment Readiness (1.0)	
WE	220	Internship (1.0-4.0)	
<b>Total:</b>			<b>27.0</b>

**ASSOCIATE DEGREE PROGRAM**

**LEGAL ASSISTANT MAJOR - A.A. DEGREE**

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	3.0
LEGL	115	Legal Procedures	3.0
LEGL	116	Law Office Management	3.0
LEGL	117	Criminal Litigation and Procedures	3.0
LEGL	119	Procedures and Discovery	3.0
LEGL	120	Corporations	3.0
LEGL	121	Legal Research	3.0
<b>Sub Total:</b>			<b>21.0</b>

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

LEGL	125	Real Estate Law for Legal Assistants (3.0)	6.0
LEGL	126	Wills, Trusts, Probate & Estate Admin (3.0)	
LEGL	127	Family Law (3.0)	
LEGL	128	Bankruptcy (3.0)	
LEGL	129	Torts (3.0)	
WE	201	Employment Readiness (1.0)	
WE	220	Internship (1.0-4.0)	
<b>Total:</b>			<b>27.0</b>

REFERENCE: IVCMajsCrtShts1112 - CLee 07/11/11



**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**ASSOCIATE DEGREE PROGRAM**

**LIBERAL STUDIES MAJOR - GENERAL OPTION - A.A. DEGREE**

This 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](http://www.assist.org)) for specific transfer requirements.

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

**REQUIRED COURSES FOR THE DEGREE**

<b>A. ENGLISH COMMUNICATION AND CRITICAL THINKING (6.0 Units)</b>			
- SPCH	100	Oral Communication	3.0
- <b>Select One Course From (Minimum 3.0 Units):</b>			
ENGL	111	Reading IV: Analytical & Critical Reading (3.0)	3.0
ENGL	201	Advanced Composition (3.0)	
PHIL	106	Logic (3.0)	
SPCH	180	Argumentation & Debate (3.0)	
<b>B. SCIENCE AND MATHEMATICS (6.0-7.0 Units)</b>			
- BIOL	100	Prin of Biological Science with Lab	4.0
<b>OR</b>			
GEOL	110	Earth and Space Science (3.0)	
- MATH	110	Number Sys in Elem Math	3.0
<b>C. ARTS AND HUMANITIES (3.0 Units)</b>			
- HIST	100	Early World History	3.0
<b>OR</b>			
MUS	100	Intro to Mus Foundations (3.0)	
<b>D. SOCIAL, POLITICAL AND ECONOMIC INSTITUTIONS (6.0 Units)</b>			
- GEOG	108	World Regional Geography	3.0
- HIST	120	United States to 1987	3.0
<b>E. LIFELONG UNDERSTANDING AND SELF DEVELOPMENT (3.0 Units)</b>			
- CDEV/PSY	104	Child Growth & Development	3.0
<b>OR</b>			
- PSY	101	Intro to Psychology (3.0)	
<b>OR</b>			
- PSY	204	Dvlpmntl Psy: Conception to Death (3.0)	
<b>TOTAL UNITS:</b>			<b>24.0-25.0</b>

REFERENCE: IVCMajsCrtsShs1112 - CLee 07/11/11

IMPERIAL VALLEY COLLEGE  
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**ASSOCIATE DEGREE PROGRAM**

**LIBERAL STUDIES MAJOR - SDSU Teacher Preparation Option - A.A. DEGREE**

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.

**REQUIRED COURSES FOR THE DEGREE**

- A. ENGLISH COMMUNICATION AND CRITICAL THINKING (12.0 Units)**
  - SPCH 100 Oral Communication 3.0
  - ENGL 101 Reading & Composition 3.0
  - **Select One Course From (Minimum 3.0 Units):** 3.0
    - ENGL 111 **Reading IV: Analytical & Critical Reading (3.0)**
    - ENGL 201 Advanced Composition (3.0)
    - PHIL 106 Logic (3.0)
    - SPCH 180 Argumentation & Debate (3.0)
  - **Select One Course From (Minimum 3.0 Units):** 3.0
    - ENGL 102 Introduction to Literature (3.0)
    - ENGL 222 Survey of World Literature (3.0)
    - ENGL 223 Survey of World Literature (3.0)
- B. HISTORY AND SOCIAL SCIENCE (12.0 Units)**
  - GEOG 108 World Regional Geography 3.0
  - HIST 120 United States to 1987 3.0
  - POLS 102 American Government & Politics 3.0
  - HIST 100 Early World History 3.0
- C. MATHEMATICS (7.0 Units)**
  - MATH 110 Number Sys in Elem Math 3.0
  - MATH 112 Geometry in Elem Math 3.0
  - MATH 114 Children's Mathematical Thinking 1.0
- D. SCIENCE (7.0 Units)**
  - GEOL 110 Earth and Space Science 3.0
  - BIOL 100 Prin of Biological Science with lab 4.0

- E. VISUAL AND PERFORMING ARTS (3.0 Units)**
  - MUS 100 Intro to Mus Foundations (3.0) 3.0
- F. DEVELOPMENT, HEALTH & PHYSICAL EDUCATION (9.0-12.0 Units)**
  - PE 211 Physical Ed in the Elementary School 3.0
  - HE 102 Health Education 3.0
  - CDEV/PSY 104 Child Growth & Development 3.0
  - OR
  - PSY 101 Intro to Psychology (3.0)
  - AND
  - PSY 204 Dvlpmntl Psych: Conception to Death (3.0)

**TOTAL UNITS REQUIRED: 50.0-53.0**

*SDSU has additional lower division requirements for this major.  
Please see a counselor for assistance.*

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**IMPERIAL VALLEY COLLEGE  
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**ASSOCIATE DEGREE PROGRAM**

**LIFE SCIENCE MAJOR - A.S. DEGREE**

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	3.0
BIOL	120	General Zoology I	4.0
BIOL	122	General Zoology II	4.0
BIOL	140	General Botany	3.0
BIOL	142	Ethnobotany: Plants and Human Cultures	3.0
BIOL	150	Human Genetics	3.0
BIOL	180	Gen Biol: Molecules/Cells/Genetics	4.0
BIOL	182	Gen Biol: Prin of Organismal Biology	4.0
BIOL	200	Human Anatomy & Physio I	4.0
BIOL	202	Human Anatomy & Physio II	4.0
BIOL	204	Human Anatomy	4.0
BIOL	206	Human Physiology	4.0
BIOL	220	General Microbiology	5.0

**II. Select a minimum of 6 units from the following:**

AG/ENVS	110	Environmental Science	3.0
CHEM	200	General Inorganic Chemistry I	5.0
CHEM	202	General Inorganic Chemistry II	5.0
CHEM	204	Organic Chemistry I	5.0
CHEM	206	Organic Chemistry II	5.0
GEOG	100	General Geology	4.0
GEOG	110	Earth & Space Science	3.0
MATH	119	Elementary Statistics	4.0

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IMPERIAL VALLEY COLLEGE  
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**ASSOCIATE DEGREE PROGRAM**

**MATHEMATICS MAJOR - A.S. DEGREE**

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:**

MATH	192	Calculus I	5.0
MATH	194	Calculus II	5.0
MATH	210	Calculus III	5.0

**II. Three units selected from:**

MATH	220	Elem Differential Equations	3.0
MATH	230	Intro to Linear Algebra w/Appl	3.0

**III. Nine units selected from (no duplicates from previous category):**

CIS	210	Programming in C++	3.0
CS	220	Intro to Object Oriented Prog Using Java	4.0
MATH	113	Mathematics Software-Geometer's Sketchpad	1.0
MATH	119	Elementary Statistics	4.0
MATH	121	Mathematics Software-FATHOM	1.0
MATH	220	Elementary Differential Equations	3.0
MATH	230	Intro to Linear Algebra w/Appl	3.0
MATH	240	Discrete Mathematics	3.0
MATH	241	Mathematics Software - MatLab	1.0
PHYS	200	Principles of Physics I	5.0
PHYS	202	Principles of Physics II	5.0
PHYS	204	Principles of Physics III	5.0

REFERENCE: IVCMajsCrtsShs1112 - CLee 07/11/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**CERTIFICATE PROGRAM**

**MEDICAL ASSISTANT CERTIFICATE**

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

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

**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 I	2.0
AHP	080	Specimen Collec & Lab Procedures	3.5
AHP	082	Exam Room Procedures	3.5
AHP	084	Pharmacology & Administration	3.5
AHP	086	Clinical Externship II	2.0
AHP	100	Medical Terminology	3.0
<b>Total:</b>			<b>26.5</b>



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IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

**CERTIFICATE PROGRAM**

**MULTIMEDIA AND WEB DEVELOPMENT CERTIFICATE**

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	3.0
ART	160	Graphic Design	3.0
BUS	260	Business Communications	3.0
<b>OR</b>			
ENGL	101	Reading and Composition (3.0)	
CIS	137	<b>Web Development Tools</b>	3.0
CIS	149	Photoshop	3.0
CIS	155	Flash	3.0
CIS	212	XHTML, CSS, and JAVASCRIPT	3.0
CIS	214	PHP and MYSQL	3.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0
<b>Total Units:</b>			<b>26.0</b>

**ASSOCIATE DEGREE PROGRAM**

**MULTIMEDIA AND WEB DEVELOPMENT MAJOR - A.S. DEGREE**

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 MINIMUM GRADE OF "C" OR BETTER.

**Twenty-six (26) units for the major.**

**I. Required courses for the major**

ART	112	Design	3.0
ART	160	Graphic Design	3.0
CIS	137	<b>Web Development Tools</b>	3.0
CIS	149	Photoshop	3.0
CIS	155	Flash	3.0
CIS	212	XHTML, CSS, and JAVASCRIPT	3.0
CIS	214	PHP and MYSQL	3.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0

**II. Select a minimum of three (3) units from the following courses:**

ART	120	Drawing (3.0)	3.0
ART	260	Advertising/Graphic Design (3.0)	
BUS	260	Business Communications (3.0)	
CIS	107	Networking (3.0)	
CIS	202	Programming in Visual Basic (3.0)	

**Total Units: 26.0**

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IMPERIAL VALLEY COLLEGE  
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**ASSOCIATE DEGREE PROGRAM**

**MUSIC MAJOR - A.A. DEGREE**

The associate's degree in music is for those students who have professional ambitions in music performance, public school teaching, composition, jazz studies, a music generalist, and/or for seeking a foundation for graduate school for university teaching or research. This program emphasizes the professional aspects of music and encourages students to continue on for a bachelor's degree.

All students are encouraged to consult with the music department to determine their placement level for starting this associate's degree and/or advisement to enroll in Music 100, Introduction to Music Foundations.

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

Twenty-nine (29) units required for the major

**I. Required courses for the major**

**a. Academic courses (20 Units)**

	<b>Units</b>
MUS 110 Beginning Musicianship I	2.0
MUS 112 Beginning Musicianship II	2.0
MUS 120 Beginning Harmony I	3.0
MUS 122 Beginning Harmony II	3.0
MUS 210 Intermediate Musicianship I	2.0
MUS 212 Intermediate Musicianship II	2.0
MUS 220 Intermediate Harmony I	3.0
MUS 222 Intermediate Harmony II	3.0

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

**b. Applied Music (5 units)**

Students must sign up for MUS 179 each semester (See "Notes" 1 and 2). Requirement may be satisfied through credit-by-exam.

MUS 140 Beginning Group Piano I	1.0
MUS 179 Applied Music (1.0)	4.0

**c. Ensemble (4 units)**

Students must sign up for one performance ensemble from the following list for each semester enrolled.

MUS 154 Chamber Singers	1.0
MUS 156 College-Community Chorus (IV Master Chorale)	1.0
MUS 171 Chamber Orchestra	1.0
MUS 172 College-Community Band (IV Community Band)	1.0
MUS 175 Instrumental Ensemble (Pacific Fire)	1.0
MUS 177 Stage Band (Valley Jazz)	1.0
MUS 178 Symphony Orchestra (IV Symphony)	1.0

**II. Recommended electives (do NOT fulfill major requirements):**

The Music faculty offer certain courses for students who are interested in such as an elective study area for the enrichment of their cultural background or in satisfaction of general education for transfer requirements. Enrollment by students who wish to elect these courses is encouraged.

MUS 100	Introduction to Music Foundations	3.0
MUS 102	Introduction to Music Literature & Listening	3.0
MUS 104	Introduction to 20th Century Music	3.0
MUS 142	Beginning Group Piano II	1.0
MUS 150	Beginning Voice I	1.0
MUS 152	Beginning Voice II	1.0
MUS 160	Beginning Guitar I	1.0
MUS 162	Beginning Guitar II	1.0
MUS 182	Introduction to Recording Techniques	2.0
MUS 184	Advanced Recording Techniques	2.0
MUS 200	History & Literature of Music I	3.0
MUS 202	History & Literature of Music II	3.0
MUS 240	Intermediate Group Piano I	1.0
MUS 242	Intermediate Group Piano II	1.0
MUS 250	Intermediate Voice I	1.0
MUS 252	Intermediate Voice II	1.0
MUS 260	Intermediate Guitar I	1.0
MUS 262	Intermediate Guitar II	1.0

**NOTE(S):**

1. Credit for MUS 179 is obtained through "credit-by-exam." After certifying 15 hours of private studio instruction with an approved instructor, the student will perform live before a jury consisting of the studio instructor and at least one member of the IVC music department faculty (See Note 2). The literature performed must be from the department approved sequence of literature of equivalent difficulty. Each semester, the literature and technique covered must advance at least one level. This exam will be taped. The grade will be recommended by the private instructor in concurrence with the IVC faculty member(s) serving on the jury, with the department head having the final determination in case of a dispute.
2. If the studio instructor is also an IVC music faculty member, no other is needed.

IMPERIAL VALLEY COLLEGE  
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**ASSOCIATE DEGREE PROGRAM**

**NURSING - ASSOCIATE DEGREE (R.N.) MAJOR - A.S. DEGREE**

The Registered Nursing Program is designed to provide the education necessary for licensure eligibility and practice as a Registered Nursing (RN). Acceptance into the program requires successful completion of all prerequisites and successful competition of the application and selection processes.

**All required prerequisites and nursing courses must be completed with a grade of "C" or better.** Contact the Nursing and Allied Health Department for more specifics.

**Admission Requirements**

**1. Prerequisites for the major**

• ENGL	101	Reading & Composition	3.0
• BIOL	220	General Microbiology	5.0
• BIOL	200	Human Anatomy & Physiology I	4.0
<b>AND</b>			
BIOL	202	Human Anatomy & Physiology II	4.0
<b>OR</b>			
BIOL	204	Human Anatomy (4.0)	
<b>AND</b>			
BIOL	206	Human Physiology (4.0)	
• SOC	101	Introductory Sociology	3.0
<b>OR</b>			
ANTH	102	Cultural Anthropology (3.0)	
• PSY	101	Introduction to Psychology	3.0
• NURS	100	Medication Mathematics	1.0

**Math Competency:** A score of 2006 or higher on the ACCUPLACER™ College Level Mathematics test **OR** MATH 090 (Intermediate Algebra) **OR** an advanced level mathematics course with a grade of "C" or higher.

**Reading Competency:** A placement score of 3006 on the ACCUPLACER™ Reading Test **OR** ENGL 089 (Reading IV: Intermediate Development) **OR** ENGL 111 (Reading IV: Analytical and Critical Reading) with a grade of "C" or higher.

2. **TEAS Exam:** Must pass exam at the predetermined minimum cut score (or higher) as set by the college and the State of California.
3. **Background:** Must pass a criminal background check as a requirement of the clinical agencies.
4. **Drug Screen:** Must pass a drug screen as defined by the Nursing Program as a requirement of the clinical agencies.
5. **American Heart BLSL/CPR Certification:** Must be current.

<b>Total Nursing Units</b>	<b>45.5</b>
<b>Total General Education/Support Courses</b>	<b>38.0-41.0</b>
<b>Total Units for Degree</b>	<b>83.5-86.5</b>

**LVN to RN Student** - Advanced placement options are found in the Nursing Appendix at the end of the catalog.

**Additional Program Requirements**

**1. Degree Requirements**

SPCH	100	Oral Communication	3.0
PE	100	Lifetime Exercise Science	2.0
PE		Activity Course	1.0
Humanities Elective			3.0
American Institutions Requirement			6.0

**2. Recommended for the major**

PSY	204	Dvlpmntl Psy: Conception to Death	3.0
Students wishing to complete a Bachelor's of Science in Nursing Program (BSN) may be required to complete such a course.			

**3. Progression Policy**

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

**4. Registered Nursing Program Specific Courses:**

<b>Semester 1:</b>			
NURS	110	Nursing Process I	4.5
NURS	111	Nursing Skills Laboratory I	1.5
NURS	112	Nursing Process Application I	4.0
NURS	113	Pharmacology I	1.5
<b>Semester 2:</b>			
NURS	123	Pharmacology II	1.5
NURS	121	Nursing Skills Laboratory II	1.0
NURS	125	Nursing Process and Application II	8.5
<b>Semester 3:</b>			
NURS	211	Nursing Skills Laboratory III	1.0
NURS	224	Psychiatric & Mental Health Nursing	2.0
NURS	225	Psych. Nrsng. Application (Clinical)**	1.0
NURS	231	Nursing Process and Application III	8.5
<b>Semester 4:</b>			
NURS	221	Nursing Skills Laboratory IV	1.0
NURS	230	Nursing Trends	1.0
NURS	241	Nursing Process and Application IV	8.5

\*\* *Clinical experience may include a rotation outside of county.*  
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IMPERIAL VALLEY COLLEGE  
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**CERTIFICATE PROGRAM**

**NURSING - VOCATIONAL NURSING (V.N.) CERTIFICATE**

The Vocational Nursing certificate is designed to provide the education necessary for licensure eligibility and practice as a Licensed Vocational Nurse (LVN). Acceptance into the program requires successful completion of all prerequisites, successful completion of the application and selection processes.

All required courses must be completed with a grade of "C" or better. Contact the Nursing and Allied Health Department for more specifics.

**Admission Requirements**

**1. Prerequisites for the major**

AHP 100	Medical Terminology	3.0
BIOL 090	Anat & Physio for Health Occupations	3.0
ENGL 101	Reading & Composition	3.0
PSY 101	Intro to Psychology	3.0

**2. Background:** Must pass a criminal background check as a requirement of the clinical agencies

**3. Drug Screen:** Must pass a drug screen as defined by the Nursing Program as a requirement of the clinical agencies

**4. American Heart BLS/CPR Certification:** Must be current

**Additional Program Requirements**

**1. 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.

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

**Semester 1:**

VN 110	Introduction to Client Care I	5.0
VN 112	Introduction to Client Care II	5.0
VN 114	Pharmacology I	1.5
VN 116	Patient Care Mgmt & Crit Think	2.5
PSY 204	Develop Psych: Conception to Death	3.0

**Semester 2:**

VN 120	Maternity Cycle	5.5
VN 122	Common Health Problems I	5.5
VN 124	Pharmacology II	2.0

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**CERTIFICATE PROGRAM**

**NURSING - VOCATIONAL NURSING (V.N.) CERTIFICATE - CONTINUED**

**Semester 3:**

VN 130	Common Health Problems II	5.5
VN 132	Common Health Problems III	5.5

**Total Nursing Units** 38.0

**Total Support Courses** 15.0

**Total Units for Certificate** 53.0

**ASSOCIATE DEGREE PROGRAM**

**NURSING - VOCATIONAL NURSING (V.N.) MAJOR - A.S. DEGREE**

The Vocational Nursing Program is designed to provide the education necessary for licensure eligibility and practice as a Licensed Vocational Nurse (LVN). Acceptance into the program requires successful completion of all prerequisites and successful completion of the application and selection processes.

All required courses must be completed with a grade of "C" or better. Contact the Nursing and Allied Health Division for more specifics.

**Admission Requirements**

**1. Prerequisites for the major**

AHP 100	Medical Terminology	3.0
BIOL 090	Anat & Physio for Health Occupations	3.0
ENGL 101	Reading & Composition	3.0
PSY 101	Intro to Psychology	3.0

**2. Background:** Must pass a criminal background check as a requirement of the clinical agencies

**3. Drug Screen:** Must pass a drug screen as defined by the Nursing Program as a requirement of the clinical agencies

**4. American Heart BLS/CPR Certification:** Must be current

**Additional Program Requirements**

**1. Additional Degree Requirements**

SPCH 100	Oral Communication	3.0
PE 100	Lifetime Exercise Science	2.0
PE	Activity Course	1.0
	Humanities Elective	3.0
	American Institutions Requirement	6.0

**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 Specific Courses:**

**Semester 1:**

VN 110	Introduction to Client Care I	5.0
VN 112	Introduction to Client Care II	5.0
VN 114	Pharmacology I	1.5
VN 116	Patient Care Mgmt & Crit Think	2.5
PSY 204	Develop Psych: Conception to Death	3.0

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**ASSOCIATE DEGREE PROGRAM**

**NURSING - VOCATIONAL NURSING (V.N.) MAJOR - CONTINUED**

**Semester 2:**

VN 120	Maternity Cycle	5.5
VN 122	Common Health Problems I	5.5
VN 124	Pharmacology II	2.0

**Semester 3:**

VN 130	Common Health Problems II	5.5
VN 132	Common Health Problems III	5.5

**Total Nursing Units** 38.0

**Total General Education/Support Courses** 30.0

**Total Units for Degree** 68.0

REFERENCE: IVCMajorsCertsShts1112 - CLee 07/11/11

**IMPERIAL VALLEY COLLEGE  
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**CERTIFICATE PROGRAM**

**PHARMACY TECHNICIAN CERTIFICATE**

The certificate program for pharmacy technician prepares the student for the national certification exam and for entry level work as a pharmacy technician. A pharmacy technician helps the licensed pharmacist prepare prescriptions, medications, provides customer services, and performs administrative duties. Pharmacy technicians generally are responsible for receiving prescription requests, preparing the prescription, preparing sterial solutions, counting medicatons, and administrative duties such as answering the phone, stocking shelves, or operating a cash register. Career roles may be in a retail or mail-order pharmacy; a hospital or nursing home; and an assisted-living facility or penal system.

**Career Opportunities in Allied Health Professions**

Completing students will be able to work within a long-term care facility, hospital, retail, or other pharmacy under the direction of a licensed pharmacist.

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

**Eighteen and a half (18.5) units required for the certificate**

**Required Courses**

AHP	100	Medical Terminology	3.0
AHP	108	Introduction to Pharmacy Technology	2.0
AHP	120	Pharmacy Technician Body Systems I	3.0
AHP	125	Pharmacy Technician Body Systems II	3.0
AHP	130	Calculation & Pharmacology for Pharmacy Technicia	3.0
AHP	140	Pharmacy Technican Operations	4.5
<b>TOTAL:</b>			<b>18.5</b>

**ASSOCIATE DEGREE PROGRAM**

**PHARMACY TECHNICIAN MAJOR - A.S. DEGREE**

The Associate of Science Degree program for pharmacy technician prepares the student for the national certification exam and for entry level work as a pharmacy technician. A pharmacy technician helps the licensed pharmacist prepare prescriptions, medications, provides customer services, and performs administrative duties. Pharmacy technicians generally are responsible for receiving prescription requests, preparing the prescription, preparing sterial solutions, counting medicatons, and administrative duties such as answering the phone, stocking shelves, or operating a cash register. Career roles may be in a retail or mail-order pharmacy; a hospital or nursing home; and an assisted-living facility or penal system.

**Career Opportunities in Allied Health Professions**

Completing students will be able to work within a long-term care facility, hospital, retail, or other pharmacy under the direction of a licensed pharmacist.

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

**Eighteen and a half (18.5) units required for the major**

**Required Courses**

AHP	100	Medical Terminology	3.0
AHP	108	Introduction to Pharmacy Technology	2.0
AHP	120	Pharmacy Technician Body Systems I	3.0
AHP	125	Pharmacy Technician Body Systems II	3.0
AHP	130	Calculation & Pharmacology for Pharmacy Technicia	3.0
AHP	140	Pharmacy Technican Operations	4.5
<b>TOTAL:</b>			<b>18.5</b>

REFERENCE: IVCMajsCrtsShts1112 - CLee 07/11/11

**IMPERIAL VALLEY COLLEGE  
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**ASSOCIATE DEGREE PROGRAM**

**PHYSICAL EDUCATION MAJOR - A.S. DEGREE**

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

**Nineteen (19) units required for the major**

**I. Required courses for the major**

HE	102	Health Education	3.0
HE	104	First Aid	3.0
PE	122	Lifeguard Training/Advanced Lifesaving	2.0
PE	210	Intro to Physical Education	2.0
PE	211	PE in the Elementary School	3.0

**Total: 13.0**

**II. Select six (6) units from the following courses:**

BIOL	204	Human Anatomy	4.0
PE	102	Physical Fitness	1.0
PE	103	Physical Fitness - Women	1.0
PE	104	Weight Training	1.0
PE	106	Walking/Jogging Fitness	1.0
PE	107	Aquatic Exercise	1.0
PE	111	Aerobics - Step	1.0
PE	112	Basketball - Men	1.0
PE	113	Basketball - Women	1.0
PE	120	Softball	1.0
PE	121	Swimming	1.0
PE	123	Water Safety Instructor Training	2.0
PE	126	Tennis	1.0
PE	127	Tennis - Advanced	1.0
PE	128	Volleyball	1.0
PE	129	Volleyball - Advanced	1.0
PE	130	Adapted Physical Exercises	1.0
PE	131	Adapted Sports	1.0
PE	140	Baseball - Advanced	1.0
PE	141	Softball - Women	1.0
PE	142	Swimming - Advanced	1.0

*Continued on Next Page*

**PHYSICAL EDUCATION (CONTINUED)**

**II. Select six (6) units from the following courses (CONTINUED):**

PE	150	Intercollegiate Baseball & PE	2.0
PE	151	Intercollegiate Basketball & PE	2.0
PE	152	Intercollegiate Soccer & PE	2.0
PE	153	Intercollegiate Softball & PE	2.0
PE	154	Intercollegiate Tennis & PE	2.0
PE	155	Intercollegiate Volleyball & PE	2.0
PE	161	Pre-Season Conditioning for Athletes	1.5
PE	162	In Season Conditioning for Athletes	1.5
PE	163	Song & Cheer	2.0
PE	170	Bowling - Beginning	1.0
PE	171	Bowling - Intermediate	1.0
PE	172	Bowling - Advanced	1.0
PE	200	Theory of Baseball	2.0
PE	201	Theory of Basketball	2.0
PE	202	Theory of Softball	2.0
PE	203	Theory of Volleyball	2.0
PE	220	Introduction to Athletic Training	2.0
PE	221	Psychology of Coaching	2.0
PE	222	Sports Officiating	3.0

REFERENCE: IVCMajsCrtsShts1112 - CLee 07/11/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**ASSOCIATE DEGREE PROGRAM**

**PHYSICAL SCIENCE MAJOR - A.S. DEGREE**

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

**Forty (40) units required for the major**

**Thirty-five units required:**

CHEM	200	General Inorganic Chemistry I	5.0
CHEM	202	General Inorganic Chemistry II	5.0
MATH	192	Calculus I	5.0
MATH	194	Calculus II	5.0
PHYS	200	Principles of Physics I	5.0
PHYS	202	Principles of Physics II	5.0
PHYS	204	Principles of Physics III	5.0

**Five units selected from:**

AG/ENVS	110	Environmental Science	3.0
ASTR	100	Principles of Astronomy	3.0
CHEM	204	Organic Chemistry I	5.0
CHEM	206	Organic Chemistry II	5.0
GEOG	100	Physical Geography	3.0
GEOL	100	General Geology	4.0
GEOL	110	Earth and Space Science	3.0
MATH	119	Elementary Statistics	4.0
MATH	210	Calculus III	5.0
MATH	220	Elem Differential Equations	3.0
MATH	230	Intro to Linear Algebra w/Appl	3.0
PHSC	110	Physical Science	3.0

REFERENCE: IVCMajCsCrtShts1112 - CLee 07/11/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**ASSOCIATE DEGREE PROGRAM**

**PRE-ENGINEERING MAJOR - A.S. DEGREE**

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

**Twenty-nine (29) units required for the major.**

**I. Eighteen (18) units required:**

CHEM	200	General Inorganic Chemistry I	5.0
ENGR	210	Statics	3.0
MATH	210	Calculus III	5.0
PHYS	200	Principles of Physics I	5.0
<b>Total:</b>			<b>18.0</b>

**II. Three (3) units selected from:**

MATH	220	Elem Differential Equations (3.0)	
MATH	230	Intro to Linear Algebra w/AppI (3.0)	
			<b>3.0</b>

**III. Three (3) units selected from:**

ENGR	212	Dynamics (3.0)	
ENGR	240	Electric Circuit Analysis (3.0)	
			<b>3.0</b>

**IV. Five (5) units selected from (no duplicates from previous categories):**

CHEM	202	General Inorganic Chemistry II (5.0)	
CHEM	204	Organic Chemistry I (5.0)	
CHEM	206	Organic Chemistry II (5.0)	
CIS	210	Programming in C++ (3.0)	
CS	220	Intro to Object-Oriented Prog Using Java (4.0)	
ENGR	212	Dynamics (3.0)	
ENGR	240	Electric Circuit Analysis (3.0)	
MATH	119	Elementary Statistics (4.0)	
MATH	220	Elem Differential Equations (3.0)	
MATH	230	Intro to Linear Algebra w/AppI (3.0)	
PHYS	202	Principles of Physics II (5.0)	
PHYS	204	Principles of Physics III (5.0)	
<b>TOTAL UNITS FOR MAJOR:</b>			<b>29.0</b>

REFERENCE: IVCMajsCrtShts1112 - CLee 07/11/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**ASSOCIATE DEGREE PROGRAM**

**PSYCHOLOGY MAJOR - A.A. DEGREE**

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

**Twenty-one (21) units required for the major**

**I. Required courses for the major**

PSY	101	Intro to Psychology	3.0
PSY	200	Biological Psychology	3.0
PSY	202	Learning	3.0

**II. Minimum of 12 units from any of the following courses**

ADS/PSY	120	Intro to Counseling	3.0
ADS/PSY	220 OR 221	Practicum	3.0
MATH	119	Elementary Statistics	4.0
PSY	142	Psych of Adjustment	3.0
PSY	144	The Psy of Interpersonal Relationships	3.0
PSY	146	Psych of Human Sexuality	3.0
PSY	204	Develop Psych: Conception to Death	3.0
PSY/SOC	206	Social Psychology	3.0
PSY	208	Abnormal Psychology	3.0
PSY	212	Research Methods in Psychology	3.0

REFERENCE: IVCMajsCrtShts1112 - CLee 07/11/11

IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

ASSOCIATE DEGREE PROGRAM

SOCIAL SCIENCE MAJOR - A.A. DEGREE

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

I. Required courses for the major (18 units)

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.

**American Indian Studies**

AIS/ANTH	104	California Indians	3.0
AIS/ANTH	106	Indians of North America	3.0
AIS/ANTH	108	Indians of the Southwest	3.0

**Anthropology**

ANTH	100	Physical Anthropology	3.0
ANTH	102	Cultural Anthropology	3.0
ANTH/AIS	104	California Indians	3.0
ANTH/AIS	106	Indians of North America	3.0
ANTH/AIS	108	Indians of the Southwest	3.0
ANTH	120	Intro to Archaeology	3.0

**Economics**

ECON	101	Intro to Microeconomics	3.0
ECON	102	Intro to Macroeconomics	3.0

**Geography**

GEOG	100	Physical Geography	3.0
GEOG	102	Cultural Geography	3.0
GEOG	108	World Regional Geography	3.0

**History**

HIST	100	Early World History	3.0
HIST	101	Modern World History	3.0
HIST	110	Early Western Civilization	3.0
HIST	111	Modern Western Civilization	3.0
HIST	120	United States to 1877	3.0
HIST	121	United States from 1877	3.0

SOCIAL SCIENCE (Continued)

**History (Continued)**

HIST/LAS	130	Early Latin America	3.0
HIST/LAS	131	Modern Latin America	3.0
HIST/LAS	132	History of Mexico	3.0
HIST	140	East Asian History	3.0
HIST	150	Survey of African History	3.0
HIST	160	Middle Eastern from 600	3.0
HIST	220	Women in American History	3.0
HIST	222	History of California	3.0
HIST	223	History of the American West	3.0
HIST/LAS	225	Mexican American History	3.0
HIST	280	Research Topics	3.0

**Latino/Latina Studies**

LAS/HIST	130	Early Latin America	3.0
LAS/HIST	131	Modern Latin America	3.0
LAS/HIST	132	History of Mexico	3.0
LAS/HIST	225	Mexican American History	3.0

**Political Science**

POLS	100	Intro to Political Science	3.0
POLS	102	American Govt & Politics	3.0
POLS	104	Comparative Politics	3.0
POLS	106	Intro to International Relations	3.0

**Sociology**

SOC	101	Introductory Sociology	3.0
SOC	102	Contemp Social Problems	3.0

**Religious Studies**

RELS	100	Religions of the Modern World	3.0
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REFERENCE: IVCMajScripShts1112 - CLee 07/11/11

IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

**SOCIOLOGY**

**Associate in Arts Degree in Sociology for Transfer (AA-T)**  
Eighteen to nineteen (18.0-19.0) units required for the major.

Sociology is the study of the groups people build, the makeup of human groups, and changes in their makeup over time. This study of human groups assists students to learn who we are, to get closer to the truth about the social work, and to become aware of ways to achieve desired social ends. Sociology, like other social science disciplines does not educate students in specialized skills. Sociology and other liberal arts majors stress the ability to observe, organize and write clearly, as well as the development of skills in the analysis of data and in collaborating with others. **The Associate in Arts in Sociology for Transfer (AA-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Please refer to the Imperial Valley College general catalog for more information on the "Requirements for the AA-T or AS-T."**

Requirements for the Associate in Arts in Sociology for Transfer:

1. Completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
  - (a) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
  - (b) A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

This associate's degree is for transfer to a CSU institution only. However, other institutions may recognize this associate's degree for admission purposes as well. Please consult with a counselor for assistance.

Organizations that most commonly employ sociologists are advertising agencies, banks, businesses, childcare agencies, community organizations, correctional institutions, governmental agencies, hospitals and health care organizations, personnel departments, and social services.

**Career Possibilities**

Social Worker • Teacher • Criminologist • Parole/Probation Officer • Correctional Counselor • Youth Counselor • Public Health Statistician • Industrial Sociologist • Demographer • Recreational Specialist • Urban Planner • Social Ecologist • Public Relations Consultant • Interviewer/Researcher • Statistician • Population Analyst • Public Opinion Analyst • Migration Specialist • Employment Counselor • Writer/Journalist • Management Analyst • Budget Analyst • Government Research Analyst

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

**REQUIREMENTS**

**I. Units/GPA** – Must complete a maximum of 60 CSU-transferable semester units with a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. *NOTE: While a minimum of 2.0 is required for admission, some institutions and majors may require a higher GPA. Please consult with a counselor for more information.*

**II. General Education** – Must complete one of the following general education transfer patterns:

- A. California State University General Education Breadth Pattern (CSU GE-B)**  
– 39 units minimum
- B. Intersegmental General Education Transfer Curriculum (IGETC)**  
– 37 units minimum

**III. Associate Degree Major Core – 18.0-19.0 units**

**A. Required for the Major**

SOC 101	Introduction to Sociology	<b>3.0</b>
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**B. Select six/seven (6-7) units from:**

*SOC 102	Contemporary Social Programs (3.0)	<b>6.0-7.0</b>
*MATH 119	Elementary Statistics (4.0)	
*PSY 212	Research Methods in Psychology (3.0)	

**C. Select six (6) units from:**

*SOC 110	Marriage and the Family (3.0)	<b>6.0</b>
*SOC/AJ 124	Criminology (3.0)	
*SOC 150	Sociology of Minority Groups (3.0)	
*SOC/PS 206	Social Psychology (3.0)	

**D. Select three (3) units from the following**

ANTH 102	Cultural Anthropology (3.0)	<b>3.0</b>
GEOG 102	Cultural Geography (3.0)	
*MATH 119	Elementary Statistics (4.0)	
PSY 101	Introduction to Psychology (3.0)	
*PSY 212	Research Methods in Psychology (3.0)	
*SOC 102	Contemporary Social Programs (3.0)	
*SOC 110	Marriage and the Family (3.0)	
*SOC/AJ 124	Criminology (3.0)	
*SOC 150	Sociology of Minority Groups (3.0)	
*SOC 206	Social Psychology (3.0)	

**Total Units: 18.0-19.0**

*\* If not used for required courses under sections II or III., above.*

**Total Major Units 18.0-19.0**

CSU-GE or IGETC pattern 37.0-39.0

Transferable Electives (as needed to reach 60 transferable units)

**Total Maximum Units 60.0**

REFERENCE: IVCMajCsShts1112 - CLee Approved October 23, 2011



IMPERIAL VALLEY COLLEGE  
 2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

1

**ASSOCIATE DEGREE PROGRAM**

**SPANISH: NATIVE SPEAKER MAJOR - A.A. DEGREE**

ALL REQUIRED COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A MINIMUM 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	3.0
SPAN	220	Bilingual Spanish I	5.0
SPAN	221	Bilingual Spanish II	5.0
SPAN	222	Bilingual Oral Spanish	3.0
SPAN	223	Spanish Reading & Writing	4.0
SPAN	225	Intro to Spanish American Lit	3.0
			<b>Total: 23.0</b>

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

HIST/LAS	130	Early Latin America	3.0
HIST/LAS	131	Modern Latin America	3.0
HIST/LAS	132	History of Mexico	3.0

REFERENCE: IVCMajCsCrtShts1112 - CLee 07/11/11

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**ASSOCIATE DEGREE PROGRAM**

**SPANISH: NON-NATIVE MAJOR - A.A. DEGREE**

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

**Twenty-nine (29) units required for the major**

**I. Required courses for the major**

SPAN	100	Elementary Spanish I	5.0
SPAN	110	Elementary Spanish II	5.0
SPAN	200	Intermediate Spanish I	5.0
SPAN	210	Intermediate Spanish II	5.0
SPAN	223	Spanish Reading & Writing	4.0
<b>Total:</b>			<b>24.0</b>

**II. Acceptable courses for the major (select a minimum of 5 units from the following courses)**

SPAN	222	Bilingual Oral Spanish	3.0
SPAN	225	Intro to Spanish American Lit	3.0
SPAN/HUM	262	Intro to Chicano/a Studies	3.0

REFERENCE: IVCMajsCrtisShts1112 - CLee 07/11/11

IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

ASSOCIATE DEGREE PROGRAM

UNIVERSITY STUDIES MAJOR - A.A. DEGREE

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.

ASSOCIATE DEGREE REQUIREMENTS

1. **Graduation Requirements - ALL OPTIONS**
  - a. Complete all IVC Graduation and Institutional Requirements **3.0-6.0**
2. **General Education (GE) - Select one pattern related to your educational goal:**  
*All required courses must be completed with a grade of "C" or better.*
  - a. CSU GE-Breadth Pattern (39 Units) **34.0-39.0**
  - b. IGETC Pattern (34-37 Units)
3. **Minimum of eighteen (18) units in one selected Emphasis** **18.0**  
*All required courses must be completed with a grade of "C" or better.*
  - 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.

**\*\* See a Counselor for Assistance with this major. \*\***

**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	120, 150
AIS	104, 106, 108
ANTH	102, 104, 106, 108, 120
CDEV	104
ECON	101, 102
GEOG	102, 108
HIST	100, 101, 110, 111, 120, 121, 122, 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 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, 201, 211
HIST	100, 101, 110, 111, 120, 121, 122, 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 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, 140, 150, 170, 190, 192, 194, 210, 220, 230, 240
PHSC	110
PHYS	200, 202, 204

IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS

**CERTIFICATE PROGRAM(S)**

**WATER TREATMENT SYSTEMS TECHNOLOGY CERTIFICATE**

The **Certificate in Water Treatment Systems Technology** is designed to provide students with the comprehensive understanding and manipulative skills, technical knowledge, and related trade information required to become State-certified operator in Water Treatment and Water Distribution. This program will allow students to comply with the necessary requirements for certification up to Grade III level. Once the student becomes a state certified operator on any or all disciplines, he or she will qualify to seek employment in the Water Treatment Systems Technology disciplines anywhere in the State.

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

**Eighteen (18) units required for the certificate.**

**Required courses for the certificate**

WT	110	Water Treat Plant Operator I	4.0
WT	120	Computational Procedures Operator I	3.0
WT	140	Water Distribution Systems	4.0
WT	210	Water Treat Plant Operator II	4.0
WT	220	Computational Procedures Operator II	3.0
<b>Total:</b>			<b>18.0</b>

**SPECIALIZATION CERTIFICATE**

**WATER TREATMENT SYSTEMS TECHNOLOGY: WASTEWATER TREATMENT SPECIALIZATION CERTIFICATE**

**Specialization Certificate in Wastewater Treatment** is designed to provide students and entry level operators seeking higher grade level a specific understanding and skills, technical knowledge, and related trade information on wastewater treatment. It will prepare students and entry level operators to comply for certification up to the Grade III level in the following disciplines: Wastewater Treatment and Wastewater Collections. Once the student becomes a state certified operator on both or any one of these disciplines, he or she will qualify to seek employment in the Wastewater Treatment discipline anywhere in the State.

The **Specialization Certificate demonstrates a completion of coursework in addition to the major in Water Treatment Systems Technology.**

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

**Twelve (12) units required for the certificate.**

**Required courses for the certificate**

WT	130	Wastewater Treatment Operator I	4.0
WT	150	Wastewater Collection Systems	4.0
WT	230	Wastewater Treatment Operator II	4.0

REFERENCE: IVCMajsCrtsShs1112 - CLee 07/11/11

**ASSOCIATE DEGREE PROGRAM**

**WATER TREATMENT SYSTEMS TECHNOLOGY MAJOR - A.S. DEGREE**

The **Water Treatment Systems Technology Associate in Science degree** is designed to provide students with the comprehensive understanding and manipulative skills, technical knowledge, and related trade information required to become State-certified operators in Water Treatment and Water Distribution. This program will allow students to comply with the necessary requirements for certification up to Grade III level. Once the student becomes a state certified operator on any or all disciplines, he or she will qualify to seek employment in the Water Treatment Systems Technology disciplines anywhere in the State.

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

**Eighteen (18) units required for the major.**

**Required courses for the major**

WT	110	Water Treat Plant Operator I	4.0
WT	120	Computational Procedures Operator I	3.0
WT	140	Water Distribution Systems	4.0
WT	210	Water Treat Plant Operator II	4.0
WT	220	Computational Procedures Operator II	3.0
<b>Total:</b>			<b>18.0</b>

**IMPERIAL VALLEY COLLEGE  
2011-2012 GENERAL CATALOG - CERTIFICATE AND MAJOR PROGRAMS**

**CERTIFICATE PROGRAM**

**WELDING TECHNOLOGY CERTIFICATE**

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.**

**Required courses for the major**

WELD	100	Welding Technology	5.0
WELD	101	Gas Tungsten Arc Welding on Plate	3.0
WELD	102	Arc Welding on Plate	5.0
WELD	103	Arc Welding on Pipe	3.0
WELD	104	Gas Tungsten Arc Welding on Pipe	3.0
WELD	105	Flux Core Arc Welding Techniques	3.0
<b>Total:</b>			<b>22.0</b>

**ASSOCIATE DEGREE PROGRAM**

**WELDING TECHNOLOGY MAJOR - A.S. DEGREE**

The practice of joining metals by welding is becoming more of a science every day. Imperial Valley College recognizes this and consequently has instituted a two-year Associate Degree program in 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 MINIMUM GRADE OF "C" OR BETTER.

**Twenty-two (22) units required for the major.**

**I. Required courses for the major**

WELD	100	Welding Technology	5.0
WELD	101	Gas Tungsten Arc Welding on Plate	3.0
WELD	102	Arc Welding on Plate	5.0
WELD	103	Arc Welding on Pipe	3.0
WELD	104	Gas Tungsten Arc Welding on Pipe	3.0
WELD	105	Flux Core Arc Welding Techniques	3.0
<b>Total:</b>			<b>22.0</b>

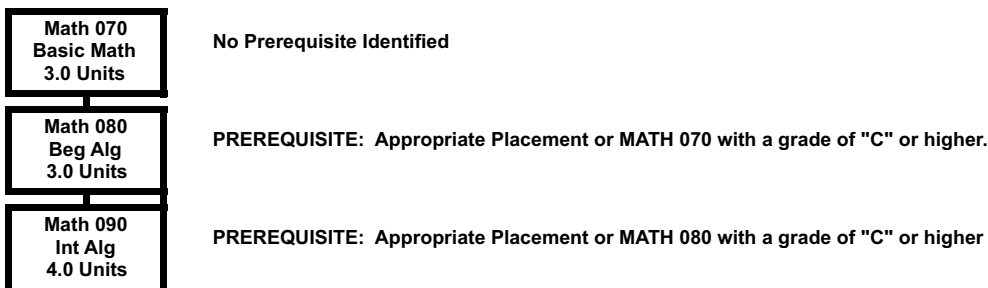
REFERENCE: IVCmajscrtsShits1112 - CLee 07/11/11

## MATHEMATICS PREREQUISITE CHART

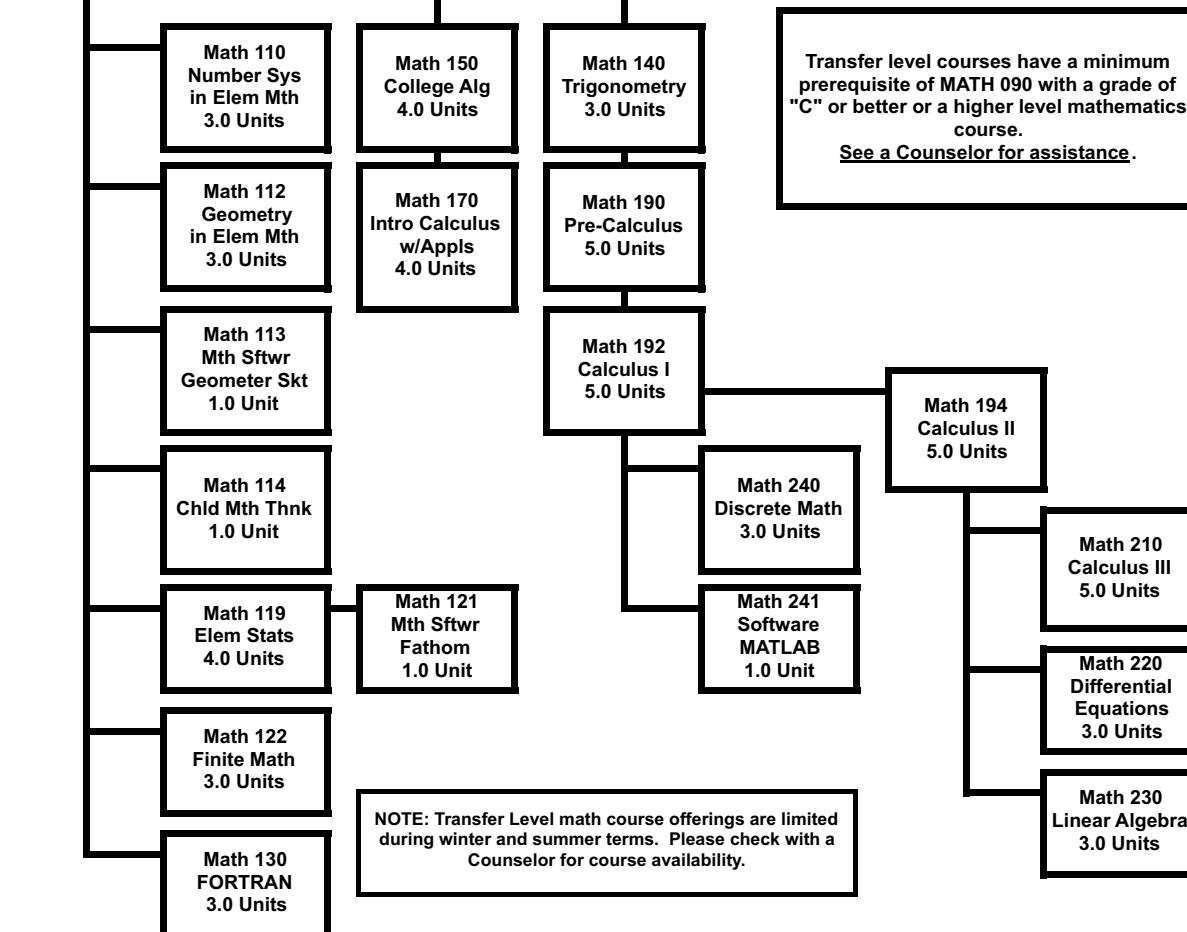
### IVC Graduation Requirements and Transfer Level Courses

**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**



**TRANSFER LEVEL COURSES**



REFERENCE: IVCWritReadHandout.doc Math Tab 04/21/08 CEL

## NURSING APPENDIX

### ASSOCIATE DEGREE (ADN) REGISTERED NURSING

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 with defined multi-screening criteria. Applications are available online at [www.imperial.edu](http://www.imperial.edu) or in the Nursing and Allied Health Department.

#### 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 GPA scores:
      - i. "Fixed Set" College cumulative GPA of 2.5 or higher:
        - Psychology 101 (& 204 if taken)
        - English 101 (& 111 or 201 if taken)
        - Math 90 (110 or higher if taken)
        - Speech 100
        - Anthropology 102 or Sociology 101
        - Nursing 100
      - ii. Core Science \*\*: cumulative 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 admission and the Nursing Program does not maintain a wait list.
- \*\* Core science courses: Anatomy must be completed within 10 years and any Physiology or Microbiology 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. March 1 through March 31 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 Department.

5. **Additional Requirements** include

- a. Making an appointment with the nursing counselor to discuss transcripts and obtain a 'major sheet'.
- b. Obtaining a valid social security number prior to entering the program.
- 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](http://www.imperial.edu).

##### 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 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 recommended multi-screening criteria. Contact the Nursing and Allied Health Office for further information.
2. Selections are done by May for Fall entry and November for Spring entry.
3. Students will receive notification at the end of June or end of December, whichever is applicable.

##### Admission into the Program

1. Prior to starting the program, the student must successfully pass:
  - a. Test for Essential Academic Skills (TEAS) exam. Although the TEAS may be repeated 1 time, only the initial TEAS score will be used for points on the selection criteria.
  - 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. Available at the Student Health Center
  - 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.sdsebackground.com](http://www.sdsebackground.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](http://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, that 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 119 Elementary Statistics.
  - 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 and who meet all requirements for admission as identified in the IVC Catalog; i.e. application, prerequi-

sites, TEAS exam, background check, and drug screen. Admission is based on space availability and prioritization as outlined in the Nursing Handbook. Applications are accepted throughout the year. 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 under Option 1, submit proof of completion of an accredited LVN Program or Armed Services nursing courses deemed equivalent to the LVN level, and a copy of a current LVN California license.
- 2. Pre-requisites  
 Courses required for the Associate Degree must be completed with a grade of "C" or better and minimum admission criteria is a GPA of 2.5 for the following:
 

SPCH 100	Oral Communication	.....3.0
PSY 101	Introduction to Psychology	.....3.0
MATH 090	Intermediate Algebra	.....4.0
SOC 101	Introduction to Sociology, or	.....3.0
ANTH 102	Cultural Anthropology (3.0)	
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)	

*NOTE: Anatomy must be completed within 10 years and any Physiology or Microbiology must be completed within 7 years.*

Math Competency: A score of 2006 or higher on the ACCUPLACER™ College Level Mathematics Test OR MATH 090 (Intermediate Algebra) OR an advanced level mathematics courses with a grade of "C" or higher.

Reading Competency: A score of 3006 on the ACCUPLACER™ Reading Test OR ENGL 089 (Reading IV: Intermediate Development) OR ENGL 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
	American Institutions Requirement	.....6.0
	Total Minimum Prerequisites and Degree Requirements	.....31
- 4. Recommended for the major:
 

PSY 204	Developmental Psychology: Conception to Death	.....3.0
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 (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.  
American Heart BLS/CPR certification: must be current

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

*\*\*Clinical experience may include a rotation outside of county*

Total Nursing Units	.....26
Total Prerequisites and Degree Requirements	.....31
Total Units for Degree	.....57

**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](http://www.rn.ca.gov)
2. LVNs seeking the 30-Unit Option must submit proof of completion of an accredited LVN Program or Armed Services nursing courses deemed equivalent to the LVN level, a copy of a current LVN California license, and a signed Disclaimer Form indicating the requirements and limitations of the 30-Unit Option are understood.

3. The program requires students to complete eight (8) units of pre-requisite 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  
 may substitute BIOL 220 General Microbiology (5 units) if BIOL 092 is not offered  
**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.  
 Note: Anatomy must be completed within 10 years and any Physiology or Microbiology must be completed within 7 years.*

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.  
American Heart BLS/CPR certification: must be current

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).

**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](http://www.imperial.edu). Applications are accepted every three semesters during the month of April for a fall admission or September for a spring admission. Please contact the Nursing Education Office to verify the fall or 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. Additional Requirements 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. Ensuring the student has a valid social security number prior to entering the program .

**3. 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](http://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.sdensebackground.com](http://www.sdensebackground.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](http://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.

**Associate Degree or Certification Options for Vocational Nursing**

The Vocational Nursing Associate Degree Program is designed to provide the education necessary for licensure and practice as a Licensed Vocational Nurse (LVN). The VN Program has two options for completion and the decision should be made after meeting the academic counselor.

1. An Associate of Science Degree in Vocational Nursing requires additional degree courses along with all required courses for the program

SPCH 100	Oral Communication.....	3.0
PE 100	Lifetime Exercise Science.....	2.0
PE	Activity Course.....	1.0
	Humanities Elective.....	3.0
	American Institutions Requirement.....	6.0

Meeting the Reading competency requirement for graduation.  
Meeting the Math competency requirement for graduation.

2. The Certification in Vocational Nursing requires additional degree courses  
All required courses must be completed with a minimum grade of "C"  
\* Prerequisites  
\* Vocational Nursing Program Required Courses.

**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](http://www.bvnpt.ca.gov).

## PEACE OFFICER STANDARDS AND TRAINING (POST) APPENDIX

The California Commission on Peace Officer Standards and Training (POST) has established training criteria that is used in the training and education of all law enforcement officers in the State of California. POST directs the training and presentation requirements based on the legislative language and each certification requirements. The student who completes the courses listed below will be eligible to take the course specific certification exams as outlined by the Commission on POST and if successful, to act at the level authorized by that specific certification level.

Imperial Valley College, through the Public Safety Department and the Health and Public Safety Division, has joined with POST in presenting that training at the college. The Training Center at IVC currently presents three Certificate Programs through the Administration of Justice Degree Program. Those Certificate Programs are:

AJ-141 Arrest and Control/Firearms  
(Earns a 832 P.C. Certificate)

AJ-142 Regular Basic Course Modular Format Level III  
(Earns a Level III Reserve Certificate)

AJ-144 Regular Basic Course Modular Format Level II  
(Earns a Level II Reserve Certificate)

The California Reserve Peace Officer Program (RPOP) is composed of members of our society who choose to dedicate a portion of their time to community service by working as part-time employees or volunteers with law enforcement agencies. These officers work with full-time regular officers to provide law enforcement services at the city, county, district and state levels. Approximately 600 law enforcement agencies currently employ nearly 6200 reserve officers.

Reserve peace officers may perform a number of general and specialized law enforcement assignments, including but not limited to: uniformed patrol, investigations, search and rescue, special events, translators, and computer specialists.

Additionally, those candidates that complete the Regular Basic Course Modular Format Level I Certificate Training Program are eligible for employment as full-time Law Enforcement Officers. The training provided through the Modular Format is the exact same training that is provided in every POST regulated training program in the State of California. It is broken down into a training format that allows working adults and full-time students to participate in the program without giving up their full-time jobs or quitting school.

The following courses have mandated eligibility requirements that must be completed prior to enrolling. Please contact the Administration of Justice/POST Department for further information.

### Eligibility Requirements for AJ 141 Arrest and Firearms

**AJ 141 Arrest and Firearms** meets the requirements for a PC 832 Arrest and Firearms Course and is the minimum training standard for California peace officers as specified in POST Regulation 1005.

The student who would like to enroll into AJ 141 **must meet ALL eligibility** requirements listed below.

1. Department of Justice (DOJ) Clearance Letter  
The DOJ clearance **must** be completed **prior** to the start of the Arrest and Firearms course (AJ 141).
  - a. Students, who do not pass the DOJ clearance process, will not be admitted to the course.
  - b. A Department of Justice clearance letter is good for 90 days.
    - i. If the 90 days expires prior to the start of class, the student must obtain a new clearance letter.
    - ii. Students who change from one AJ 141 class to another in the same semester, same school, and within 90 days, do not need a new clearance letter.
  - c. For further information contact the Administrative Justice/POST Department Office
2. Valid California driver's license.
3. Ability to successfully participate in physical requirements of course.
4. U.S. citizen or have filed for U.S. citizenship.
5. Must have a valid social security number prior to admission
6. Proof of high school graduation or GED
7. Be at least 18 years of age at the time of admission

### Eligibility Requirements for AJ 142 Regular Basic Course Level III

**AJ 142 Regular Basic Course Level III** – successful completers that have been appointed by a law enforcement agency may perform specified limited support duties, 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. Additionally, Level III reserve officers may transport prisoners without immediate supervision. See specified requirements in Penal Code sections 830.6(a) (1) and 832.6(a) (2).

The student who would like to enroll into AJ 142 **must meet ALL eligibility requirements** listed below.

1. Complete and submit an application with all requested information attached 2 weeks prior to the start of the semester.
2. Department of Justice (DOJ) Clearance Letter  
The DOJ clearance **must** be completed **prior** to the start of the course.
  - a. Students, who do not pass the DOJ clearance process, will not be admitted to the course.
  - b. A Department of Justice clearance letter is good for 90 days.
    - i. If the 90 days expires prior to the start of class, the student must obtain a new clearance letter.
    - ii. Students who change from one AJ 142 class to another in the same semester, same school, and within 90 days, do not need a new clearance letter.
  - c. For further information contact the Administrative Justice/POST Department Office

3. Valid California driver's license.
4. Ability to successfully participate in physical requirements of course.
5. U.S. citizen or have filed for U.S. citizenship.
6. Must have a valid social security number prior to admission
7. Proof of high school graduation or GED
8. Be at least 18 years of age at the time of admission
9. Highly Recommended – Completion of AJ 141 Arrest and Firearms prior to starting AJ 142

### Eligibility Requirements for AJ 144 Regular Basic Course Level II

**AJ 144 Regular Basic Course Level II** – successful completers who have been appointed by a law enforcement agency may perform general law enforcement assignments while under the immediate supervision of a peace officer who has completed the Regular Basic Course. These officers may also work assignments authorized for Level III reserve officers without immediate supervision. Specified in Penal Code sections 830.6(a)(1) and 832.6(a)(2)

The student who would like to enroll into AJ 144 **must meet ALL eligibility requirements** listed below.

1. Complete and submit an application with all requested information attached 2 weeks prior to the start of the semester.
  - a. Verification of completion of AJ 142 RBC Level III or Reserve Peace Officer Level III certification as a Level III officer is required
  - b. If the student has obtained their Level III at another college then the student needs to request a free POST profile at <http://www.post.ca.gov/general-questions.aspx>.
  - c. If a student does not enroll into the Reserve Officer Level II course for over a year, they must take the End of Course Proficiency Examination for Modular III. The student can make an appointment with the POST Coordinator at 760-355-6279 to schedule an appointment to take the examination. Upon successfully passing this Examination, the student will be able to enroll into the Reserve Officer Level II course.
  - d. The completion date of the Level III course is the date listed on the POST profile.
2. Department of Justice (DOJ) Clearance Letter
 

The DOJ clearance **must** be completed **prior** to the start of the course.

  - a. Students, who do not pass the DOJ clearance process, will not be admitted to the course.
  - b. A Department of Justice clearance letter is good for 90 days.
    - i. If the 90 days expires prior to the start of class, the student must obtain a new clearance letter.
    - ii. Student who change from one AJ 144 class to another in the same semester, same school, and within 90 days, do not need a new clearance letter.
  - c. For further information contact the Administrative Justice/ POST Department Office

3. Valid California driver's license.
4. Ability to successfully participate in physical requirements of course.
5. U.S. citizen or have filed for U.S. citizenship.
6. Must have a valid social security number prior to admission
7. Proof of high school graduation or GED
8. Be at least 18 years of age at the time of admission

### RESERVE PEACE OFFICER PROGRAM

The State Legislature and the Commission on Peace Officer Standards and Training (POST) have established three levels of reserve peace officer to provide flexibility to law enforcement agencies. Imperial Valley College offers Level III and Level II training. Reserve peace officers are required by Commission Regulations 9050-9055 to meet the same selection standards (e.g. personal history investigation and medical and psychological screening) as full-time regular officers. Commission Regulation 1007(a) outlines the minimum training requirements for reserve peace officers. Please contact the Administrative Justice and POST Department Office for further information regarding the requirements.

## ADMINISTRATION

### **AGUIRRE, JUSTINA**

Dean of Health and Public Safety  
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**

Dean of Counseling  
M.S.W., San Diego State University  
B.A., University of Michigan

### **CUELLAR, ALFREDO**

Dean of Behavioral and Social Sciences  
Ph.D., University of Alabama  
M.A., University of Alabama  
B.S., University of Alabama

### **FINNELL, TODD**

Vice President for Information Technology  
M.A., University of Redlands  
B.S., San Diego State University  
A.S., Imperial Valley College

### **GREGORY, TRAVIS**

Associate Vice President of Human Resources/EEO  
M.Ed., Northern Arizona University  
B.S., Northern Arizona University

### **JAIME, VICTOR**

Interim Superintendent/President  
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**

Dean of Student Development and Campus Events  
M.Ed., University of San Diego  
B.A., San Diego State University  
A.A., Imperial Valley College

### **MAGNO, JANIS**

Interim Vice President for Student Services  
Dean of Enrollment Services  
M.S., San Diego State University  
B.A., San Diego State University  
A.A., Imperial Valley College

### **McNEECE, P. BRIAN**

Dean of Arts and Letters  
M.Ed., Northern Arizona University  
M.A., San Diego State University  
B.A., UC San Diego

### **RUHL, TAYLOR**

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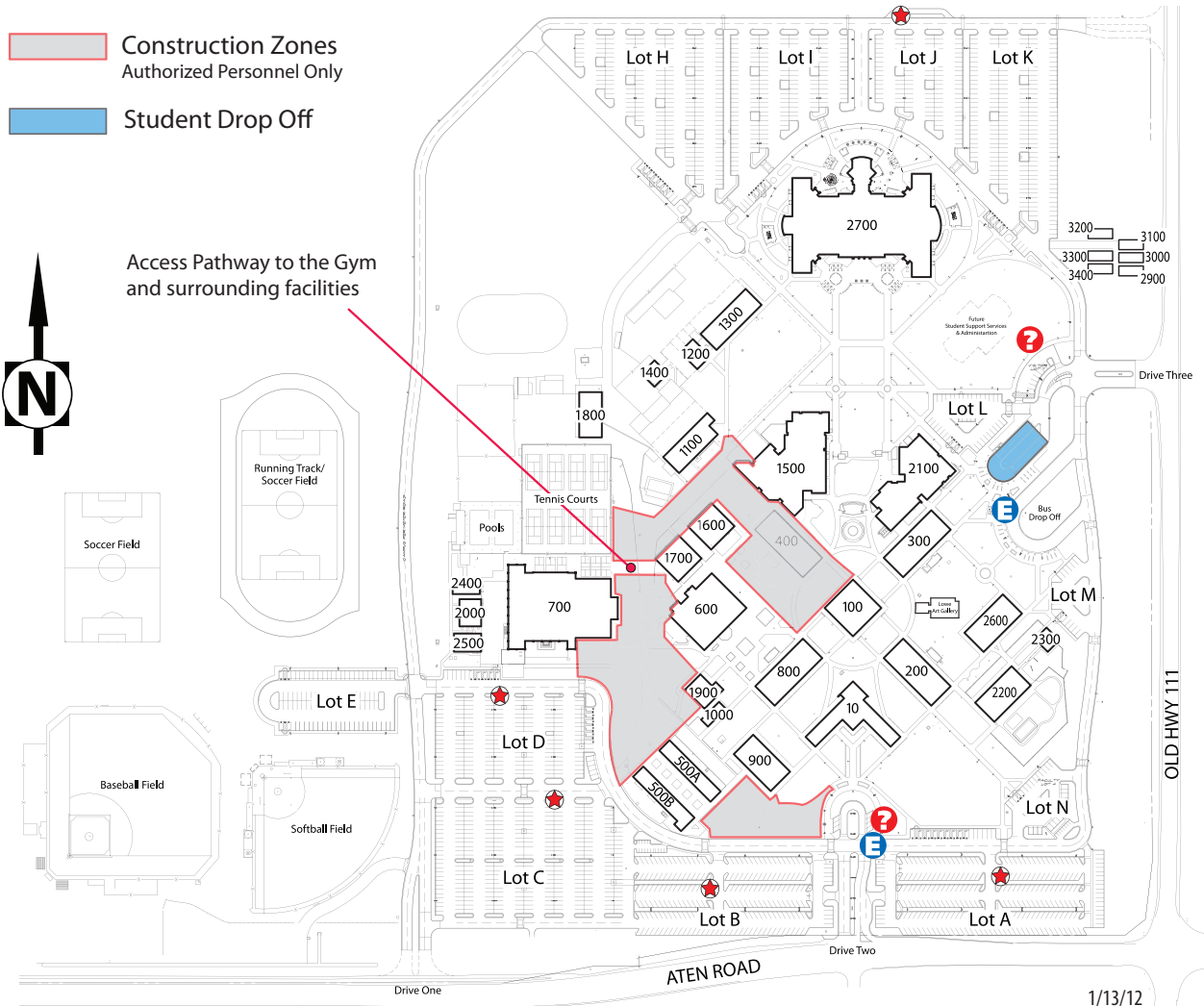
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BRUNGARDT, MARTHA † Nursing 1972-1985	GRANADOS, ESTHER Business 1990-1999	LOWE, JUANITA † Art 1961-1990	RUDOLPH, WILLIAM † Dean of Vocational Education 1964-1993	WASSON, HENRY † Math/Science 1962-1994
BUCKEL, EILEEN Dean of Learning Services 1993-2005	GREVATT, JAMES Counseling 1975-1996	MARKS, BETTY Nursing 1984-2000	SAMSON, WALTER † History 1963-1982	WEISSMAN, HARRY English 1969-1980
CARLSON, MARYLYNN † Nursing 1984-2009	GRIFFIN, WILLIAM † Business 1961-1992	MACCI, BARBARA Dean of Voc Ed 1976-1996	SAMUELS, CARMEN Nursing 1971-1981	WELCH, T. LARRY Librarian 1994-2004
CARNES, DENNIS † Biology 1995-2009	HANN, CAROL Professor, English 1975-2006	MCCORMICK, J. MICHAEL † English 1972-2008	SANTOS, RAFAEL † Business 1975-1999	WENDRICK, MARY English 1990-1999
CERDA, DANIEL English 1974-2003	HANN, RICHARD Humanities 1967-2003	MELLINGER, ELWOOD Agriculture 1961-1989	SAXE, ELLEN Nursing 1981-1990	WENDRICK, MEL † Director of DSP&S 1973-1999
CERDA, ERNESTINE English 1974-2003	HEBERT, ROGER Physical Education 1968-1994	MONTENEGRO, JEAN English, ESL, and Exercise Science, Wellness & Sport 1966-2000	SECHRIST, WILLIAM † VP/Bus Svcs/Deputy Supt 1990-1998	WHITE, HOWARD † Law Enforcement 1969-1979
CHAMPAGNE, PHILIP Welding 1971-1989	HILLHOUSE, ROSANNE English 1963-1999	MOORE, ERNEST † Business 1970-1978	SMITH, MARY M. † English 1975-1996	WHITE, RAY Automotive Technology 1964-1998
DePAOLI, JOHN A. † Superintendent/President 1965-1995	HINSHAW, JOHN † Mathematics 1942-1973	MOORE, ROBERT Business 1970-1988	SMITH, MELVIN † Disabled Student Programs 1990-2003	WILHELM, ROBERT Geography & Political Science 1970-2003
DOMINGUEZ, GILBERT Superintendent/President 1996-2002	HUGHES, MERRLYNN Nursing 1986-1997	NADEAU, NANCY English Instructor 1975-2002	SPEER, WILLIAM † English 1961-1987	WILLIAMS, RICHARD † Psychology 1974-1999
	JACKLICH, JOEL Professor, Music 1989-2006	NOVAK, RUTH † Dean of Counseling 1958-1972	SPENCER, TERREL † Superintendent/President 1963-1978	WILSON, PATRICIA English 1970-1991
			STANDIFORD, SANDRA Counseling, Dean of Admissions 1967-2003	ZOBELL, SHERRY Math 1998-2009

† Deceased

# Imperial Valley College

## Campus Map and Directory 2011-2012



LEGEND					
10 Administration	800 Business	1700 Workforce Development Cntr	2500 Math Lab Center		
100 Counseling/Financial Aid	900 Meyer Business Building	IVC Foundation Office	2600 Reading/Writing/Language Lab		
200 Social Sciences/English	1000 Student Affairs Office	1800 Maintenance/Purchasing/Warehouse	2700 Offices Sciences/English/Math		
300 Fine Arts	1100 Auto Tech	1900 Bookstore	2900 Classroom - Temporary Building		
400 Natural Science	1200 Welding	2000 Test Ctr/Tal Srch/Up Bd	3000 Classroom - Temporary Building		
500 English/Math	1300 Auto Tech/Humanities	2100 Health Sci/Disabled Student	3100 Temporary Building		
Reprographics/Parking	1400 Tool Storage	2200 Preschool	3200 Classroom - Temporary Building		
600 College Center	1500 Library Media Center	2300 Infant Toddler Center	3300 Classroom - Temporary Building		
700 Gymnasium	1600 Technology Center	2400 Human Resources	3400 Classroom - Temporary Building		
	Parking/ Day Pass Machine	Emergency Call Box	Campus Information Booth		

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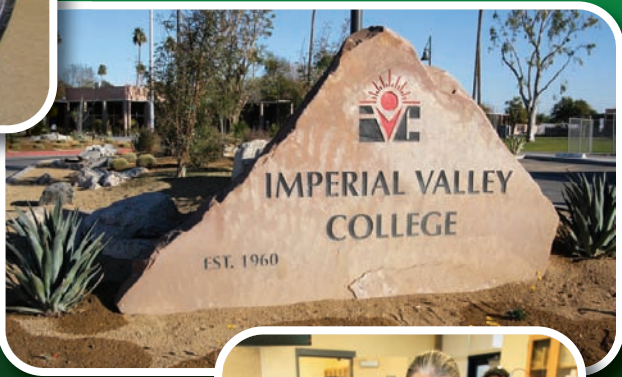
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NOTES:



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