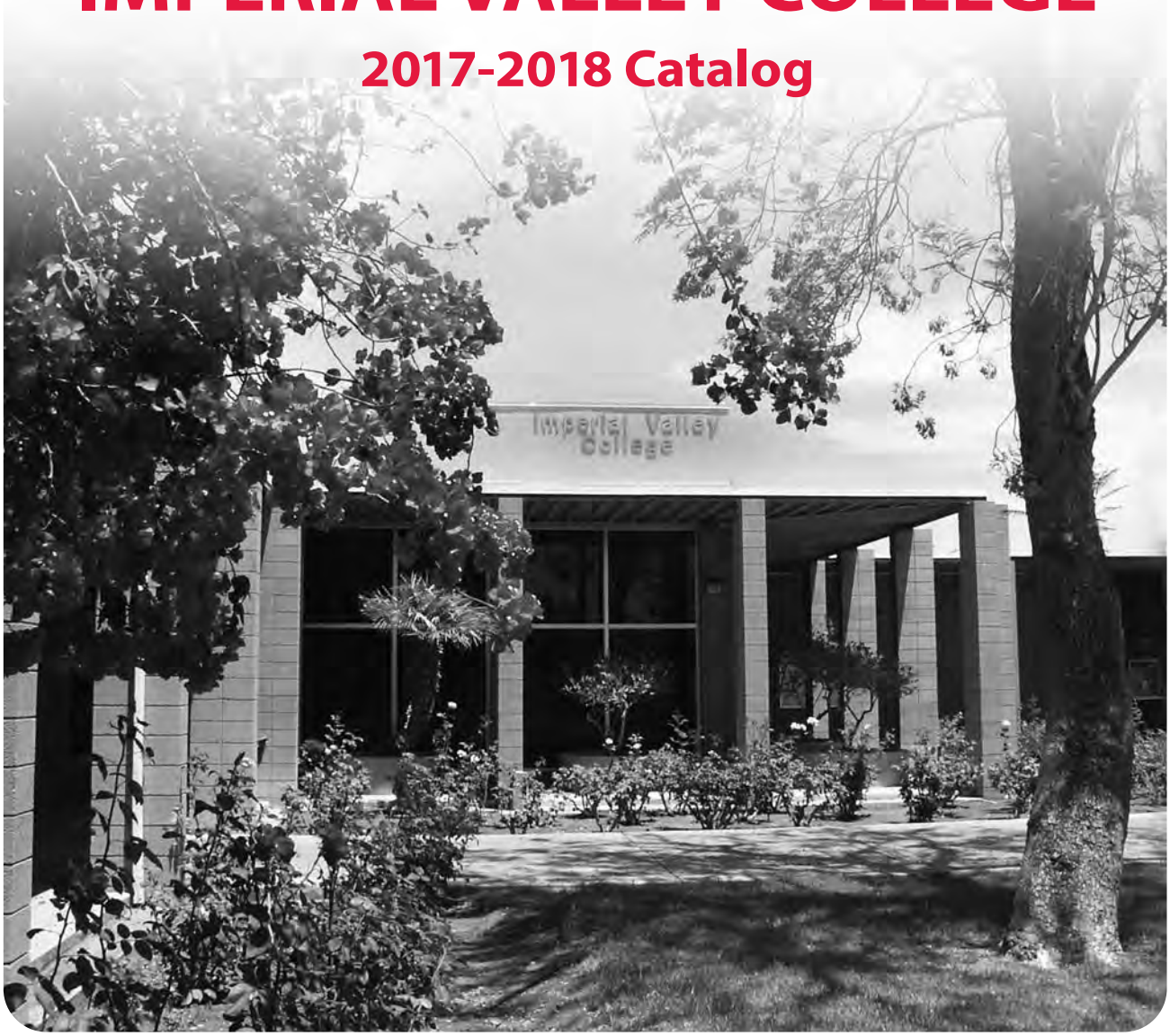
Imperial Valley College

2017-2018 Academic Catalog

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

IMPERIAL VALLEY COLLEGE

2017-2018 Catalog



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!

IMPERIAL COMMUNITY COLLEGE DISTRICT

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

Accredited by

Accrediting Commission for Community and Junior Colleges (ACCJC)
Of the Western Association of Schools and Colleges (WASC)
10 Commercial Boulevard, Ste. 204, Novato, CA 94949
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Upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).
25400 U.S. Highway 19 North, Suite 158, FL 33763. Ph: (727) 210-2350. www.caahep.org

California Association of Alcohol and Drug Educators (CAADE)
5230 Clark Avenue, Suite 1, Lakewood, CA 90721. Ph. (707) 722-2331. www.caade.org

California Board of Registered Nursing
P.O. Box 944210, Sacramento, CA 94244-2100. Ph: (916) 322-3350. www.rn.ca.gov

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San Diego and Imperial Counties Community Colleges Association (SDICCCA)

Licensed Program

Community Care Licensing Department of Social Services
8765 Aero Drive, Suite 300, San Diego, CA 92123. Ph: (858) 467-4388

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The Veterans Administration

Disclaimer

Imperial Valley College is committed to providing students with the most accurate, current information available regarding the College's programs, courses, 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), 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) 355-6543. Questions or concerns regarding standard practice and process can be directed to the Office of Admissions and Records at (760) 355-6101.

TABLE OF CONTENTS

Accreditation....2
President's Message....4
Board of Trustees....5
Administration....5
2017-2018 Academic Calendar....6
History of the College....7
Strategic Educational Master Plan....8
Mission Statement....9
Types of Courses and Programs....9
Degrees....9
Institutional Student Learning Outcomes....10
Admission and Registration....11
- Eligibility....12
- Application....12
- Residency....12
- Registration....15
- Wait Lists....17
- Adding Classes....17
- Dropping Classes....17
- Repeating Courses....18
- Student Success and Support....18
- Prerequisite, Corequisite, Advisories On Recommended Preparation And Limitations On Enrollment....19
- Challenge Process....19
- Fees and Refunds....20
- Other Fees/Charges....21

Student Support Services and Special Programs....23
- Financial Aid....24
- Scholarships....25
- Counseling Services....25
- Transfer Center....26
- Disabled Student Programs and Services (DSPS)....26
- Educational Talent Search....26
- Upward Bound....26
- Student Support Services (SSS)....26
- Cooperative Agencies Resources for Education (CARE)....27
- Extended Opportunity Program and Services (EOPS)....27
- CalWORKs Program (CalWORKs)....27
- Military & Veteran Success Center....27
- Veterans Services....28
- Online Services and Distance Education....29
- Student Email....29
- Distance Education....29
- Additional Resources and Centers for Students....30
- Athletics....30
- Bookstore and College Center....30
- Early Education Labs....30
- Community Service Classes....30
- Exercise Science, Wellness, and Sport Program....30
- Non-Credit Education....30
- Student Activities....30
- Student Health Services....30
- Work Experience....31
- Spencer Library and Media Center....31
- Information Literacy/Competency....32
- Study Skills Center Tutorial Services....32
- Pauline Benoit Rice IVC Language Lab....32
- Jean Raulston Reading/Writing Lab....32
- Math Lab....32
- Business Division Computer Labs....32

College Policies, Rules and Regulations....33
- Academic Freedom....34
- Nondiscrimination and Sexual Harassment Policy....34
- Family Educational Rights and Privacy (FERPA)....34
- Changes in the Catalog....36
- Campus Regulations....36
- Courseload Limits....36
- Class Attendance....36
- Open Enrollment....36
- Proficiency Enrollment....36
- Cheating and Plagiarism....36
- Grading System....37
- Scholastic Honors....37
- Policy For Earning College Credit....38
- Credit by Examination....38
- Transfer Credit....38
- Advanced Placement Chart....39
- Credit for College Level Examination Program (CLEP)....41
- Foreign Transcripts....42
- Academic Renewal....42
- Attendance and Administrative Withdrawals....42
- Voluntary Withdrawal....43
- Probation - Dismissal – Reinstatement....43
- Student Conduct....43
- Student Complaint Policy....44
- Petition and Hearing Process....46
- IVC Campus Safety....46
- IVC Parking....46

Degrees, Certificates and Transfer Planning....47
- General Education....48
- Associate Degree Graduation Requirements....48
- Certificates of Achievement....48
- Career Technical Education (CTE)....49
- Apprenticeship Training Programs....49
- Associate Degree and Certificate Listing....50
- Graduation/General Education Requirements....51
- Transfer Planning....53
- Transfer Preparation....53
- Western Undergraduate Exchange (WUE)....53
- The California State University....54
- The University of California....57
- Intersegmental General Education Transfer Curriculum (IGETC)....57
- Cross Enrollment Program at a California State University or University of California Institution....60

Associate Degree and Certificate of Achievement Programs....61
- Section Table of Contents....62

Apprenticeship Training Programs....207
Courses of Instruction....237
- Common Courses....238
- Winter and Summer Sessions....238

Catalog Appendix....309
- Mathematics Prerequisite Chart....310
- Nursing Appendix....311
- Peace Officer Standards and Training (POST) Appendix....315

Administration and Faculty....319
- Emeritus Faculty....325

Campus Map and Directory....327
Index....328

Imperial Valley College President's Message

Congratulations on joining the long list of Valley residents who have made Imperial Valley College their choice for higher education. I am proud to say I am also part of that group.

There has never been a more exciting time to be a student at IVC.

Our June 2017 graduating class is again a record number. That has become routine over the past five years as our graduation numbers have increased significantly. Those numbers have led us to now hold two ceremonies.

Meanwhile, through cooperative partnerships, IVC has also taken a lead role in creating new bachelor's degree options for our students. Our innovative Imperial Valley University Partnership with San Diego State University and the County Office of Education, established in 2011, was just the beginning.

Since then, through additional University partnerships, our students now can start at IVC then seamlessly finish their degrees at CETYS. Or they can choose to attend the Yuma campuses of Northern Arizona University or the University of Arizona. And beginning in the 2017-18 academic year Columbia College--a leading private school in Columbia, Missouri--has been added with a combination of on-line and on ground classes on the IVC campus.

Our objective is to provide our students new opportunities to finish their bachelor's degree here in the Valley. In the career-technical fields, we are also instituting new fast-track programs. If you are interested in any of those programs, I encourage you to contact our counseling department.

And our campus is continuing to grow. Just recently, we opened a 3-megawatt solar field, using 17 acres of land just north of our campus.

We are seeking to meet both the educational and personal needs of our students to ensure the opportunity for student success. Veteran students can receive assistance through our Military and Veterans Success Center, which is open to all veterans of any age. And we also recently opened a Food Pantry in a partnership with the Imperial Valley Food Bank to provide food for our students who are food insecure.

I encourage you to take advantage of these and the myriad of other student programs we offer here at your college.

I wish you the best in your educational career and have a great school year!

Victor M. Jaime, Ed.D.
Superintendent/President

Board of Trustees

Imperial Valley College is part of the Imperial Community College District.

The Imperial Community College District's Board of Trustees is an independent policy-making body that reflects the public interest in board activities and decisions. A seven-member Board of Trustees is elected by trustee area.

It is the responsibility of each Board member to represent the interests of his or her respective area. Board members take seriously their obligation to represent the overall public interest and to maintain continuity in the leadership of the Imperial Community College District.

Louis Wong
Area 1

Karla A. Sigmond
Board President
Area 2

Jerry D. Hart
Area 3

Rudy Cardenas, Jr.
Area 4

Vacant
Area 5

Romualdo J. Medina
Area 6

Steven M. Taylor
Clerk
Area 7

District Administration

Superintendent/President	Dr. Victor M. Jaime
Vice President for Academic Services	Dr. Nicholas Akinkuoye
Vice President for Student Services	Dr. Martha Garcia
Vice President for Administrative Services	John Lau
Dean of Student Affairs and Enrollment Services	Vacant
Dean of Student Services and Special Projects	Lennor Johnson
Dean of Arts, Letters and Learning Services	David Zielinski
Dean of Economic and Workforce Development	Efrain Silva
Dean of Health and Public Safety	Tina Aguirre
Dean of Math & Sciences	David Drury
Chief Human Resources Officer	Clint Dougherty
Chief Technology Officer	Jeffrey Enz

IMPERIAL VALLEY COLLEGE
2017-2018 ACADEMIC CALENDAR

Fall Semester 2017

August	11	Friday	Orientation (Service Day – All Faculty and Staff)
	14	Monday	Fall 2017 Semester Begins
	19	Saturday	First Day of Fall 2017 Saturday Classes
September	4	Monday	Holiday (Labor Day) – Campus Closed
November	10	Friday	Holiday (Veterans Day) – Campus Closed
	20-21	Monday-Tuesday	No Classes – Campus Open
	22-25	Wednesday-Saturday	Holiday (Thanksgiving) – Campus Closed
December	8	Friday	Fall 2017 Semester Ends
	11-15	Monday-Friday	No Classes – Campus Open
	18-30	Monday-Saturday	Winter Recess – Campus Closed

Winter Session 2018

January	1	Monday	Campus Closed
	2	Tuesday	Winter Session 2018 Begins
	15	Monday	Holiday (Martin Luther King Jr's Birthday) – Campus Closed
February	2	Friday	Winter Session 2018 Ends

Spring Semester 2018

February	12	Monday	Spring 2018 Semester Begins
	16	Friday	Holiday (Lincoln's Birthday) – Campus Closed
	19	Monday	Holiday (Washington's Birthday) – Campus Closed
April	2-7	Monday-Friday	Spring Recess – Campus Closed
May	28	Monday	Holiday (Memorial Day) – Campus Closed
June	8	Friday	Spring 2018 Semester Ends
	9	Saturday	Commencement

Summer Session 2018

June	18	Monday	Summer Session 2018 Begins
July	4	Wednesday	Holiday (Independence Day) – Campus Closed
	26	Thursday	Summer Session 2018 Ends

HISTORY OF THE COLLEGE

Imperial Valley College is celebrating its 55th anniversary of the Aten Road campus in 2017. The opening of the IVC campus in September of 1962 was the culmination of years of hard work by visionary citizens to finance and build a freestanding community college in Imperial County.

Work to establish what today is the Imperial Community College District had originated three years before the opening of the IVC campus. The State Department of Education approved a recommendation on July 10, 1959 to establish a community college district in Imperial County. 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 first Board of Trustees, one from each of the seven high school or unified school districts served by the Imperial Junior College District. Approval for construction of a campus followed in 1960 when District residents set an all-time state record, voting by a ratio of thirteen to one in favor of bonds to finance a new IVC campus on Aten Road.

IVC Roots Run Deep

But even though the grand opening of the main campus in 1962 signaled a new era for higher education in the Imperial County, 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 a second college, Brawley Junior College, on the grounds of Brawley Union High School.

Enrollment 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, Central Junior College students petitioned the Central Union High School Board of Trustees for a more representative name for the college because it was now serving students from all of the Imperial Valley. The board agreed to change the college's name to Imperial Valley College.

Under the administration of the Central Union High School District, IVC 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.

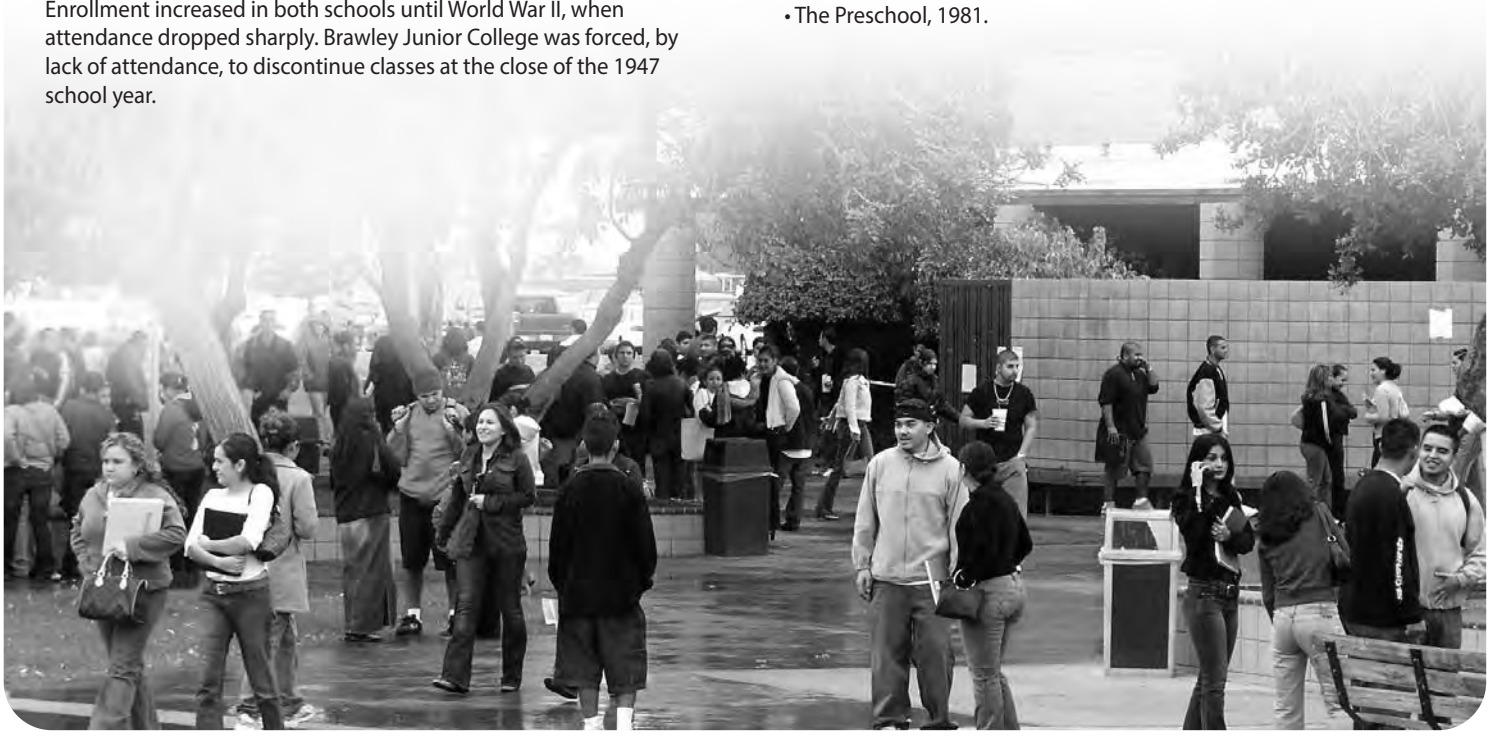
When IVC and the new college district finally received its own campus in 1962, it was basic. The facility consisted of a library, science laboratories, fine arts rooms, a student activities building, academic classrooms, administration and faculty offices, social science rooms, physical education shower and locker rooms, and agricultural education classrooms and a shop.

Campus Expansion

A steady growth pattern began in April 1967 with the addition of a gymnasium that was designed to house sporting and theater events. It was dedicated on May 26, 1996 as the John A. "Buck" DePaoli Sports Complex in honor of the late John A. "Buck" DePaoli who served IVC for 30 years, of which 14 years were as Superintendent/President.

The Meyer Center for Business and Commerce was dedicated February 20, 1972. It originally was located in the 900 building and is now housed in the 800 building.

Other major building projects that followed included:
- The Associated Students Activities Building, 1971;
- The Spencer Library Media Center, in 1975, named in honor of the late Terrel Spencer, President Emeritus and IVC's second President.
- The Swimming Pool Complex, 1975;
- The Preschool, 1981.



In November 1986, Imperial Valley College began construction of a 17,500 square foot fully state funded building that now houses Health Technologies programs as well as the Mel Wendrick Access Center for Disabled Student Programs and Services. The $2.2 million project was completed at the end of 1987.

IVC passed its second General Obligation bond in 1987: A $2.5 million measure that allowed the college to do major campus refurbishing and other general improvements including the opening of an extended-campus center in El Centro, rejuvenating classrooms, the library, the college center, the counseling center, the print shop; doubling the size of the Meyer Center for Business and Commerce; and computerizing the energy control system.

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

In April 2002, the Jean Raulston Reading/Writing Lab was relocated to the newly constructed 2600 building, sharing space there with the Pauline Benoit Rice Language Lab.

The Childhood Education Center celebrated its grand opening on October 28, 1991 and the Infant Care Center was built and opened for service in June of 1999.

The Military and Veteran Success Center, which serves both veterans of all ages as well as active duty military, celebrated its grand opening in 2016.

Campus Redefined

Thanks to the passage of two additional board measures (in 2004 and 2010), the IVC campus marked its 50th Anniversary in 2012 with a dramatic transformation, adding facilities as it redefined itself as an institution committed to both sustainability and mobility for future generations.

This milestone was recognized in 2010 when Imperial Valley College received a regional planning award for design, development and implementation of its campus expansion project.

The Compass Blueprint Excellence Award for Visionary Planning for Prosperity was presented by the Southern California Association of Governments. IVC was one of four projects in Southern California to receive a 2010 Excellence Award and was the only Community College to receive one.

This award winning expansion plan includes Xeriscape landscaping and people-scaled features have not only altered the aesthetics of this campus, but have redefined the pivotal role integrated uses can play with the incorporation of expanded public transit facilities.

Funding has come through a variety of sources including the $58.6 million Measure L bond issue passed in 2004 and the $80 million Measure J measure approved in 2010.

Transportation improvements were funded in partnership with the U.S. Department of Transportation and the Imperial County Transportation Commission (ICTC).

IVC and the ICTC partnered to develop transit centers on campus which have improved the safety and security of transit riders. Other circulation improvements included two additional entrances to the campus.

The most significant building in the Measure L funded expansion was the 2700 building. It is a 70,000 square foot, two-story, classroom and laboratory building that opened to students in January 2010. This building became the first LEED certified science building (silver) in Southern California and the first publicly-owned LEED certified building in Imperial County.

Measure J provided the funding for two new Career Technical Education (CTE) buildings which opened for classes in the Fall 2014. These CTE buildings are home to classrooms that train our residents for the careers of the future, including alternative energy development as well as law enforcement, emergency medical technician, and automotive technology. The buildings are also built to LEED standards.

Just north of the CTE buildings, IVC opened its 3-megawatt solar field in early 2017 which provides power to the campus. IVC entered into a Power Purchase Agreement with Green Light Energy Corporation who completed the photovoltaic solar facility on 17 acres of the Aten Road campus with assistance from its Owner Engineer, ZGlobal Inc. a local engineering firm. This facility is expected to save the college $8 million over the 25-year life of the project as well as drastically reduce the college's carbon footprint. The solar field placed IVC among the energy conservation leaders in California's 72 community college districts and 113 colleges.

Amid all of this expansion, IVC also lost a historic part of the campus in 2014 when the 500 Buildings were demolished. These "tin" buildings were once situated on the Imperial High School grounds and housed the IVC campus when it first became a district in 1960. They were later moved to Aten Road and housed the Imperial Valley campus of San Diego State University for some time as well as other IVC offices. The demolition was part of an agreement with the State of California when it provided matching funds for renovation of other classrooms on campus.

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

Milo P. Johnson	**1960-1963**
Dr. Terrel Spencer	**1963-1978**
Dr. Dan Angel	**1978-1981**
Dr. John A. DePaoli	**1981-1995**
Dr. Gilbert M. Dominguez	**1996-2002**
Dr. Paul Pai	**2003-2007**
Dr. Ed Gould	**2008-2011**
Dr. Victor M. Jaime	**2012-Present**

Strategic Educational Master Plan

The Strategic Educational Master Plan (SEMP) for 2015-2021 was developed by the Strategic Educational Master Plan Committee which includes representatives from all campus constituencies including faculty, classified staff, students, and administration. The SEMP combines the components of the Strategic Plan and the Educational Master Plan into one comprehensive planning document. Developed in collaboration with campus constituencies and including members of the Imperial Community College District Board of Trustees and the Imperial County community through the visioning process and a

county wide survey, the plan provides a sense of vision and a guide for multi-year planning. A comprehensive analysis of both internal and external factors influencing future development of the College, and an examination of the present and anticipated development of instructional and support services, as well as technology, facilities, staffing, marketing, and professional development is included in the 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:

- Student Success
- Teaching and Learning Effectiveness
- Access and Growth
- Community, Economic & Workforce Development
- Organizational Effectiveness

The Strategic Educational Master Plan addresses how the college can best implement planned improvements based on the institutional resources, required and desired timeframes, and final recommendations and strategies, all in line with IVC's mission, vision, and values. Specific objectives were also identified under each of the five goals listed above. The plan may be found on our website at www.imperial.edu or the contacting the President's office at **(760) 355-6219**.

College 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.

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.

Degrees

The Board of Trustees, on recommendation of the Superintendent/ 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.), the Associate in Science (A.S.), the Associate in Arts for Transfer (A.A.-T), and the Associate in Science for Transfer (A.S.-T.) 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.

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.

1. Communication Skills

Definition: Communication is the activity of conveying information through the exchange of ideas and information through speech, visuals, signals/symbols, writing, or behavior. It's the meaningful exchange of information from one person to another. Communication may be intentional or unintentional and may take linguistic or nonlinguistic forms.

Goal: Students will develop effective communication skills for diverse situations.

Students will be able to:

- Recognize that communication and expression may be written or oral, verbal or nonverbal, informational or artistic.
- Develop analytical reading, writing, speaking, and listening skills including evaluation, synthesis, and research.
- Create substantially error-free writing using appropriate vocabulary.
- Convey ideas clearly, accurately and logically.
- Recognize cultural differences in communication and nonverbal cues. Speak effectively to deliver focused and coherent presentations.
- Apply interpersonal communication skills to work in a team structure.

2. Critical Thinking

Definition: Critical thinking is the disciplined process of actively analyzing, synthesizing, and evaluating information gathered from observation, reasoning, and communication, used to draw conclusions and take action.

Goal: Students will be able to gather and synthesize relevant information, evaluate alternatives, and implement creative and effective solutions.

Students will be able to:

- Define and analyze problems clearly.
- Think independently, creatively, logically, and effectively.
- Apply appropriate problem-solving methods.
- Analyze and synthesize information from multiple perspectives.
- Identify purpose and bias in communication.
- Identify further problems for study.

3. Personal Responsibility

Definition: Personal responsibility is the development of one's personal character and skills designing a life that honors values and purpose. It includes recognizing that the choices and obligations we make in life impact us and others mentally, physically, and emotionally. Personal responsibility includes learning how to respond wisely to opportunities and challenges. It can also involve learning how to recognize and correct mistakes; monitor and judge our own actions and motivations; and develop respect for ourselves and others.

Goal: Students will become independent learners who understand and demonstrate the lifelong skills necessary for physical, social, economic, mental, and emotional health.

Students will be able to:

- Set clear personal, educational, and career goals. Identify and implement lifestyle choices that promote self-reliance, financial literacy, and physical, mental/emotional, and social health.
- Develop a strong work ethic consciously doing one's very best. This includes the practice of honesty and ethical behavior in the academic environment and effective time management that honors the self and others.
- Recognize and act on the obligation to form one's own judgment and engage diverse perspectives as a resource for learning, citizenship, and work.
- Develop and demonstrate reasoning in ways that incorporates ethics, goals, and priorities.
- Demonstrate intellectual exploration skills to include the use of all available resources.
- Develop and use a clear set of values and an ethical framework in their personal, educational, and professional endeavors.
- Demonstrate an understanding of the diversity of human perspectives, along with the causes and effects of individual decisions and actions.

4. Information Literacy

Definition: Information literacy is the ability to identify an information need, and locate, analyze, evaluate, and effectively use that information. Information literacy forms the basis for lifelong learning. It is common to all disciplines, to all learning environments, and to all levels of education.

Goal: Students will know when information is needed and have the ability to locate, analyze, evaluate, and effectively use it.

Students will be able to:

- Determine the nature and extent of information needed.
- Access print and electronic information technologies.
- Use appropriate search strategies to access information.
- Critically evaluate the accuracy, credibility and relevance of sources and information.
- Coherently, ethically and legally incorporate information into projects and assignments.
- Effectively utilize libraries as a multiplatform information resource.

5. Global Awareness

Definition: Global awareness is the acknowledgement that we live and work with people with diverse backgrounds. It includes an understanding of how the individual fits within evolving social, cultural, and economic contexts at global, national, and local levels.

Goal: Students will define and understand their role and responsibilities as global citizens.

Students will be able to:

- Compare and contrast groups of different backgrounds, beliefs, appearances, and lifestyles.
- Analyze and synthesize cultural products (e.g., art, literature, newspaper articles, and cinema).
- Communicate, interact, and work with individuals from other cultural and ethnic groups.

ADMISSION AND REGISTRATION

ADMISSION

Eligibility

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 assessment tests (unless they have completed regular college courses in both English and mathematics).

All students are admitted under one of the following classifications:

1. **First-Time Student:**
   a. High school graduates or equivalent certificates (General Educational Development or California High School Proficiency Examination).
   b. Non-graduates of high school who are eighteen years of age and no longer enrolled in high school.
2. **Continuing Student:** A student who has registered for classes at Imperial Valley College for consecutive semesters.
3. **Returning Student:** A student who has previously attended Imperial Valley College but has been absent from the college for more than one semester.
4. **K-12 Admit:** A High school student who is recommended by the high school principal for one to eleven units of work. A *Special Student Application for Concurrent Enrollment* must be submitted along with the IVC Application for Admission. Deadline dates for each term are noted on the K12 application.
5. **First-Time Transfer Student:** A student who has previously attended another accredited college or university and will be attending IVC for the first time. Official college transcripts should be submitted to Imperial Vally College as soon as possible to be granted course credit as appropriate.
6. **International Students:** An out of country student who will be attending IVC on F-1 visa. The International Student Application Packet must be completed and submitted to the Admissions and Records Office by June 1 for the fall semester admission, and November 1 for the 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. **An official TOEFL exam score report will is required of students as a condition of admission.**

Application

Students who are enrolling in Imperial Valley College for the first time and those who are former students returning after an absence of a semester or more (not including summer) must submit an application for admission online. The Online Application may be found by logging into the IVC website: **www.imperial.edu**. Click on the "Apply Now" box located on the top right corner of the home page.

Applications for admission will be processed beginning on October 1 for all terms for the next academic year.

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.

The attendance of a student at a 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)

Admission of Special Students in Grades 11-12
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.)

Each semester, prior to being allowed to register, students who wish to attend IVC as special part-time college students must complete and submit the "Special Student in Grades 11-12" application (available online). Application deadlines for each term are noted on the application. Special Students must also meet all course prerequisites and assessment tests must be completed for subjects such as math and English.

Residency

Residency classifications shall be determined for each student at the time of each registration and whenever a student has not been in attendance for more than one semester. Residence classifications are to be made in accordance with the following provisions: 1.) A residence determination date is that day immediately preceding the opening day of instruction for any session during which the student proposes to attend. 2.) Residence classification is the responsibility of the Admissions and Records Office.

The initial residency classification will be made at the time the student applies for admission.

Resident – A student who has resided within California for at least one year prior to the residence determination date and has met the residency standards stipulated in Title 5 of the California Administrative Code. The "residence determination date" is the day immediately preceding the opening day of instruction each term during which the student proposes to attend college in the Imperial Community College District.

Nonresident – A student who has not resided in the state for more than one year prior to the residence determination date or those who hold certain non-immigrant visas which preclude them from establishing residency. Foreign students admitted to the United States under student visas are classified as nonresidents.

Rules Determining Residence – The residence of each student enrolled in or applying for enrollment in any class or classes maintained by this District shall be determined in accordance with the Education Code which states that every person has, in law, a residence. In determining the place of residence, the following rules are to be observed:

- Every person who is married or eighteen years of age, or older, and under no legal disability to do so, may establish residence.
- A person may have only one residence.
- A residence is the place where one remains when not called else where for labor or other special or temporary purpose and to which one returns in seasons of repose.
- A residence cannot be lost until another is gained.
- The residence can be changed only by the union of act and intent.
- A man or a woman may establish his or her residence. A woman's residence shall not be derivative from that of her husband.
- 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, the minor's residence is that of the parent with whom the last place of abode was maintained. The minor may establish his/her residence when both parents are deceased and a legal guardian has not been appointed.
- The residence of an unmarried minor who has a parent living can not be changed by the minor's own act, by the appointment of a legal guardian, or by relinquishment of a parent's right of control.

Determination of Resident Status – A resident is a student who has been a bona fide resident of the state for one year prior to the residence determination date. A bona fide resident is a person whose residence is in California as determined above except:

- As student who is a minor and remains in this state after the parent, who was previously domiciled in California and has established residence elsewhere, shall be entitled to retain resident classification until attaining the age of majority and has resided in the state the minimum time necessary to become a resident, so long as continuous attendance is maintained at an institution.
- A student who is a minor and who provides evidence of being entirely self-supporting and actually present in California for more than one year immediately preceding the residence determination date with the intention of acquiring a residence therein, shall be entitled resident classification until he/she has resided in the state the minimum time necessary to become a resident.
- A student who has not been an adult for one year preceding the residence determination date for the semester for which the student proposes to attend an institution shall have the immediate pre-majority-derived California residence, if any, added to the post-majority residence to obtain the one year of California residence.
- As student holding a valid credential authorizing service in the public schools of this state, who is employed by a school district in a full-time position requiring certification qualifications for the college year in which the student enrolls in an institution, shall be entitled to resident classification if each student meets specific requirements.
- A student who is a natural or adopted child, stepchild, or spouse who is a dependent of a member of the armed forces of the United States stationed in this state on active duty shall be entitled to resident classification. If the member of the armed forces of the United States later transfers on military orders to a place outside this state, or retires as an active member of the armed forces of the United States, the student dependent shall not lose his/her resident classification, so long as he/she remains continuously enrolled in the District.
- A student who is a member of the armed forces of the United States stationed in this state on active duty, except a member of the Armed Forces assigned for educational purposes to a state-supported institution of higher education, is entitled to resident classification only for the purpose of determining the amount of tuition and fees.
- A veteran who was discharged or released from at least 90 days of active duty service less than three years before the date of enrollment in a course commencing on or after July 1, 2015, and his/her dependents, regardless of the veteran's state of residence is entitled to resident classification.
- A student who is a minor and resides with his or her parent in a district or territory not in a district shall be entitled to resident classification, provided that the parent has been domiciled in California for more than one year prior to the residence determination date for the semester, quarter or term for which the student proposes to attend.
- A student who is a Native American is entitled to resident classification for attendance at a community college if the student is also attending a school administered by the Bureau of Indian Affairs located within the community college district.
- A student who is a federal civil service employee and his or her natural or adopted dependent children are entitled to resident classification if the parent has moved to this state as a result of a military mission realignment action that involves the relocation of at least 100 employees.

- A student who resides in California and is 19 years of age or under at the time of enrollment, who is currently a dependent or ward of the state through California's child welfare system, or was served by California's child welfare system and is no longer being served either due to emancipation or aging out of the system, may be entitled to resident classification until he/she has resided in the state the minimum time necessary to become a resident.
- A student who 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, and the parent resides in this District and the parent of the student has claimed the student as a dependent on his state or federal personal income tax return if he/she has sufficient income to have personal income tax liability shall be entitled to resident classification.
- A student who demonstrates financial need, has a parent who has been deported or was permitted to depart voluntarily, moved abroad as a result of that deportation or voluntary departure, lived in California immediately before moving abroad, attended a public or private secondary school in the state for three or more years, and upon enrollment, will be in his or her first academic year as a matriculated student in California public higher education, will be living in California, and will file an affidavit with the District stating that he or she intends to establish residency in California as soon as possible.

Right to Appeal – Students who have been classified as non-residents have the right to a review of their classification (Title 5 Section 54010 (a)). Any student, following a final decision of residence classification by the Director of Admissions & Records, may make written appeal to the Admissions and Records Office within 30 calendar days of notification of final decision by the college regarding classification.

Appeal Procedure – The appeal is to be submitted to the Admissions and Records Office which must forward it to the Chief Student Services Officer within five working days of receipt. Copies of the original application for admission, the residency questionnaire, and evidence or documentation provided by the student, with a cover statement indicating upon what basis the residence classification decision was made, must be forwarded with the appeal.

The Chief Student Services Officer shall review all the records and have the right to request additional information from either the student or the Admissions Office.

Within 30 calendar days of receipt, the Chief Student Services Officer shall send a written determination to the student. The determination shall state specific facts on which the appeal decision was made.

Reclassification – A student previously classified as a non-resident may be reclassified as of any residence determination date. A residence determination date is that day immediately preceding the opening day of instruction for any session during which the student proposes to attend. Petitions are to be submitted to the Admissions and Records Office. Petitions must be submitted prior to the semester for which reclassification is to be effective. Extenuating circumstances may be considered in cases where a student has failed to petition for reclassification prior to the residency determination date. In no case, however may a student receive a non-resident tuition refund after the date of the first census.

Written documentation may be required of the student in support of the reclassification request.
A questionnaire to determine financial independence must be submitted with the petition for reclassification.

A student shall be considered financially independent for purposes of residence reclassification if the applicant meets all of the following requirements (Ed Code 68044 and Title 5, Section 54032):

- Has not and will not be claimed as an exemption for state and federal tax purposes by his/her parent in the calendar year prior to the year the reclassification application is made;
- Has not and will not receive more than seven hundred fifty dollars ($750) per year in financial assistance from his or her parent, in the calendar year the reclassification application is made and in any of the three calendar years prior to the reclassification application, and
- Has not lived and will not live for more than six weeks in the home of his/her parent during the calendar year the reclassification application is made and in any of the three calendar years prior to the reclassification application.

A student who has established financial independence may be reclassified as a resident if the student has met the requirements of Title 5 Sections 54020, 54022 and 54024.

Failure to satisfy all of the financial independence criteria listed above does not necessarily result in denial of residence status if the one year requirement is met and demonstration of intent is sufficiently strong.

Financial dependence in the current or preceding calendar year shall weigh more heavily against finding California residence than financial dependence in the preceding second and third calendar years. Financial dependence in the current or preceding calendar year shall be overcome only if (1) the parent on whom the student is dependent is a California resident, or (2) there is no evidence of the student's continuing residence in another state.

The Admissions and Records Office will make a determination, based on the evidence and notify the student not later than 14 days of receipt of the petition for reclassification.

Students have the right to appeal according to the procedures above.

Non-Citizens – If non-citizens are present in the United States illegally or with any type of temporary visa, they will be classified as non-residents and charged non-resident tuition unless they meet the exceptions contained below.

If, for at least one year and one day prior to the start of the semester in question, a non-citizen has possessed any immigration status that allows him/her to live permanently in the United States and she or he meets the California residency requirements, the student can be classified as a resident.

Any students who are U.S. Citizens, permanent residents of the U.S., and aliens who are not immigrants (including those who are undocumented), may be exempt from paying nonresident tuition if they meet the following requirements:

- high school attendance for three or more years and graduated from a California high school or attainment of the equivalent thereof;
- registration or enrollment in a course offered by any college in the District for any term commencing on or after January 1, 2002,
- completion of a questionnaire form prescribed by the Chancellor and furnished by the District of enrollment, verifying eligibility for this nonresident tuition exemption; and
- in the case of a student without lawful immigration status, the filing of an affidavit that the student has filed an application to legalize his/her immigration status, or will file an application as soon as he or she is eligible to do so.
- Reside in Yuma or San Luis, Arizona and are attending IVC (Colorado River Compact)

Students may file residency questionnaire forms through the third week of the semester to request a review of their residency status. Final residency determination is made by the Admissions and Records Office. Students may appeal the decision.

International Students
Imperial Valley College defines an "international student" as a student attending college full time while on an F-1 visa. Applications for admission in IVC's International Student Program are available online at www.imperial.edu, on the Admissions and Records website under "Forms." Prospective students may contact the Admissions and Records Office by calling (760) 355-6101 or by visiting the college website: **www.imperial.edu**.

All international students must maintain full-time enrollment (12 or more units each semester) and demonstrate academic progress in order to maintain their F-1 visa status. Students with other types of visas (not F-1) should check with Admissions & Records to determine eligibility for enrollment as well as establishing residency.

Other requirements for admission include the following:

1. Complete and submit the International Student Application. The International Student Application can be found by accessing the IVC website at: **www.imperial.edu**, click on ***For Students*** then select ***Admissions & Records***. On the Admissions & Records website click on ***Forms*** toward the bottom of the page then select ***Application – International Students***. Application deadlines for each primary term are noted on the application. International students are only accepted for primary terms (Fall and Spring).
2. Submit an Application for Admission to Imperial Valley College – online. Go to **www.imperial.edu** and click on Apply Now on the top right corner of the IVC homepage. Follow the directions to complete the Application for Admission through CCCApply.
3. An official affidavit of support and current bank certification or bank statement that proves the student has sufficient financial support to pay tuition and living expenses to study at Imperial Valley College for an academic year.
4. A local sponsor is required. This person must reside in the Imperial Valley, unless the student is a commuter student.
5. A TOEFL exam score. (iBT = 45-46, cBT = 133, pBT = 450+)
6. Health insurance coverage. Imperial Valley Community College District requires that all international students have a valid health insurance plan that provides coverage during their course of study. Students must have health insurance coverage in order to enroll in classes. Health insurance information is available in the Admissions and Records Office.
7. For transfer students a transfer clearance form completed by the institution the student presently attends that verifies his or her eligibility to transfer to IVC (when applicable).
8. Students under 18 years of age must be living with a legal guardian as stated in the admission requirements.

Upon acceptance, students will be administered assessment testing. During the assessment session, students are given tests in writing, reading, and mathematics to determine their skill levels in these areas. Based on the results of English proficiency, students will be advised as to the recommended level of enrollment in English, math, and other courses. Students will receive their results from their assessment tests on the day of testing.

REGISTRATION

In conformity with the provisions of Title 5 of the California Administrative Code, the governing Board of the Imperial Community College District affirms a policy of open enrollment. 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.

New Students and Returning Students
New students are those who have never enrolled in classes at Imperial Valley College.

Returning students are those who have previously attended Imperial Valley College but have been absent from the college for the last two primary terms or more.

Returning students are given a registration date and time for Priority Registration each semester/term.

Returning students registration times are based on the total degree applicable units completed at Imperial Valley College along with other factors (i.e., Athlete, EOPS, Veteran, Disabled Students Program, etc.).

New matriculated students are new students who have completed the online orientation, assessment tests and have a student educational plan (SEP) on file. These students are granted priority registration privileges as per title 5 regulations.

New Non-matriculated students are given a date and time and are the last group to participate in registration. Non-matriculated students are new students who have not completed the online orientation, assessment tests and do not have an educational plan.

Continuing Students
Continuing students are those who have been registered during the preceding semester and have received at least one letter grade or "W." Those who were registered during the semester but did not complete a course with a letter grade or "W" will have forfeited their continuing student status.

Student Portal and WebSTAR
Student Portal is the IVC web portal that enables students to view their registration times. WebSTAR enables students to view their class schedules, grades, and academic history; add or drop classes; and access a variety of useful resources. Students need an ID number and a Personal Identification Number (PIN) to use the Student Portal. For more information about the Student Portal, please refer to the IVC website: **www.imperial.edu**.

Maintaining Student Contact Information
It is important for students to maintain current contact information, including the phone number and address in their college record. An address and phone number may be updated through the student's WebSTAR account under "My Information" or through the Admissions and Records Office, located in the Administration Building. Mail returned from the U.S. Postal Service with a new forwarding address may be used as the basis for updating a student record.

Priority Registration Times
As of Fall 2014 the California Community Colleges Board of Governors approved changes that establish system-wide enrollment priorities designed to ensure classes are available for students seeking job training, degree attainment or transfer and to reward students who make progress toward their education goals. To be eligible for priority registration new students must complete the following:

1. New students must matriculate – complete the Accuplacer Assessment (or provide approved alternative), and complete college orientation and advisement.
2. Students must also have an education plan.
3. Continuing students must be in good academic standing (2.0 G.P.A) and have not exceeded 90 degree applicable units (not including units in basic English, basic Math or English as a Second Language). Students are encouraged to seek help to improve their academic standing. Students nearing 90 units should carefully plan their remaining courses.

Active-duty military and veteran, current and former foster youth, homeless youth, CalWORKS, followed by student in Extended Opportunity Programs and Services and Disabled Students Programs and Services will continue to have first priority for registration if they meet the same criteria listed above pursuant to Education Code section 66025.

Registration priority specified above shall be lost at the first registration opportunity after a student:

- Is placed on academic or progress probation or any combination thereof as defined in Board Policy and Administrative Procedure 4250 for two consecutive terms; or
- Has earned ninety (90) or more degree-applicable semester or quarter equivalent units at the district.
- **Also beginning Fall 2016 two consecutive primary terms of Probation will lead to loss of the BOG Fee Waiver until the student is no longer on probation.**

Students may appeal the loss of enrollment priority for the following reasons:

1. When the loss is due to extenuating circumstances. Extenuating circumstances are verified cases of accidents, illnesses or other circumstances beyond the control of the student; or
2. a student with disabilities who applied for but didn't receive accommodation in a timely manner; or
3. for students enrolled in high unit majors.

Students may appeal the loss of the BOG Fee Waiver for any of the following reasons:

1. Verified cases of accidents, illnesses, or other circumstances beyond the student's control.
2. Student with disabilities who applied for but didn't receive accommodation in a timely manner.
3. Significant academic improvement.
4. Changes in student's economic situation.
5. Evidence student was unable to obtain essential support services.
6. Special consideration of factors for CalWorks, EOPS, DSPS and Veteran students.

The appeals petition can be found at **www.imperial.edu** click on For Students and select *Admissions & Records*. Click on *Forms* toward the bottom of the webpage.

The Chief Student Services Officer (CSSO) or his/her designee will determine the appeal in his/her sole discretion.

Students will find their registration times on the Student Portal once they login at least two to three weeks before priority registration begins.

The registration time established for each student is the date and time the student can start using the online registration system for a given semester. Once that date has passed, students may continue to use the online system until it becomes unavailable near the end of the semester.

Registration appointments for continuing students are determined by the number of degree applicable units the student has completed at the college. Students are encouraged to register as early as possible using the online registration system for the best possible course selection

Community Education:
For registration information, please contact Community Education by phone at **(760) 355-6303** or by email at: **communityservices@imperial.edu**. Students may also register online at: **http://community.imperial.edu**.

Registration Restrictions
A hold may prevent students from registering for classes. If that is the case, there will be a brief statement provided during the online registration process indicating the restriction, if applicable. Students must clear all restrictive holds prior to registration. Contact the indicated office for information on how to get the hold released. Outstanding debts must be resolved before registering for classes.

Students are required to clear all prerequisites and matriculation requirements prior to registration. Students who are required to complete an assessment, or those who need to clear a prerequisite prior to registration, should contact the Assessment Office or Admissions and Records.

Wait Lists

Students who attempt to register in a class that is closed may select the option to have his/her name placed on a Wait List. **Students cannot be added to a wait list IF:** (1) it is prior to a student's registration appointment; or (2) the student is already enrolled, or on a wait list for another section of the same class; or (3) the wait list is full; or (4) the class has started. Students are added to the wait list for a class on a first-come, first-served basis. When a student has cleared the Wait List and is able to register for the class they will receive an email. **Once cleared from the Wait List the student will have 24 hours only to register for the class.**

Students will not be added to a class IF: (1) the class will cause a time conflict with another class on the student schedule; or (2) the class will cause the student to go over the maximum number of units allowed: or (3) another section of the same course is already on the student schedule; or (4) the student has a HOLD which prohibits registration. The student will be billed immediately once the student has been successfully moved from the wait list into the class and an email notice will be sent to the IVC student email address. Students are responsible for all fees generated from added classes.

The Wait List is only active up to the first day of the semester, after this point an Add Authorization Code from the instructor is required.

Adding Classes

Full-Term Classes – Fall and Spring
Registration starts several weeks prior to the beginning of a semester. Registration after a semester begins can be difficult due to limited class availability. Decisions to cancel classes may be made early in the registration cycle. Students are encouraged to register early to avoid disappointing situations.

Beginning dates for priority registration each semester are available online on the Admissions & Records page on the IVC website under Important Dates and Deadlines. The student's specific registration time is available online through the Student Portal.

Registration is not complete until all fees—including enrollment, material, health and, when appropriate, nonresident tuition fees—have been paid. Registration after the semester begins will be handled as follows:

During the first two weeks of instruction: All classes are officially closed when their start date has occurred, and students are required to contact the course instructor for permission to enroll. Instructor's use their discretion in issuing Add Authorization Codes for closed classes. If the instructor grants permission to enroll, the student will be able to register online for the class using the unique Add Authorization Code issued by the instructor. Students must pay all required course fees at the time of enrollment, or they may be dropped for non-payment.
Instructors may issue add authorization codes up until the day before census (the 20% point) for the class. Add codes must be acted on prior to the Deadline to Register date noted in the class schedule.

Winter Intersession, Summer Session and Short-Term Classes
Students may enroll in winter intersession, summer session, short-term, and other late-starting classes only until the day before the first class meeting, and then only if the class is open. Starting the first day of class, instructor permission is required for all add activity. The deadline for adding such classes is noted on the class roster. Students must enroll prior to the deadline noted on the class roster.

Late Adding
A "late add" is defined as enrollment that occurs between the census date (the 20% point) and five instructional days following census. For short-term classes (any class less than six weeks in length), the census date is usually the first day of class. For this type of class, registration should occur before the class begins, or it must be handled using the late add process. The late adding of classes is considered only with the dean's approval.

Submission of the late add form with the instructor's authorization is required for late registration. The late add process may be accomplished only in person at the Admissions and Records Office. Late adding of classes is not available five instructional days after the census date.

Auditing Classes
Imperial Valley College does not permit auditing of classes.

Student Photo ID
Once students have enrolled and paid their fees, they may obtain their permanent student photo ID card in the College Center (Building 600) during posted hours. Students must present a driver's license or other photo identification card along with a copy of their current class schedule. The student photo ID is required to utilize many services on campus.

Dropping Classes

It is the student's responsibility to officially drop or withdraw from classes. Students are only able to drop or withdraw from classes online via WebSTAR. Note: Only those drops completed prior to the refund deadline are eligible for refund consideration. (See "Fees and Refunds" for information regarding refunds.)

Deadlines for Dropping Classes
In accordance with state regulations and district policy, the deadlines used for grading purposes are as follows:

- Drop without a transcript annotation: Drop must be completed prior to the first 20% of the course based on the individual class.

- Drop with a "W" annotation: All courses dropped at the 20% point and up until the 75% point will be recorded on the transcript as a "W."

Drops after the 75% point are not allowed except under narrowly defined extenuating circumstances. These situations must be due to substantiated illness, accident, or events beyond the student's control that prohibit continuation in classes. By law, all classes remaining on the student's record after the 75% point require that a grade be issued. For important deadlines for specific classes, students should log on to the IVC web site and locate their classes in the index of the current semester's class schedule. It is the student's responsibility to drop a class. However, every instructor is required by Title 5 to drop inactive enrollments prior to the census date.

Repeating Courses

Courses may be repeated only under the following circumstances *(Title 5, CCR Sections 55040–55045).*

1. SUBSTANDARD GRADES AND "W's"
   - Most courses may be repeated twice when the student has earned a substandard grade ("D," "F," or "NP") and/or a "W."
   - Students who have earned two grade symbols (D, F, NC, NP or W) in a course must petition to take the course a third time.
   - 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.
2. LAPSE OF TIME
   Most courses completed with a satisfactory grade may be repeated one additional time if a significant lapse of time of at least three years has passed and if the course must be taken to fulfill a recency requirement by the college or another institution of higher education to which the student seeks to transfer. However, this exception is considered only by petition. Students should contact the Admissions and Records Office for more information. If the repeat is allowed, the grade earned when the class is repeated will be used for the GPA computation, and the previous grade will be annotated as a repeat and will not be counted in the GPA computation.

3. EXTENUATING CIRCUMSTANCES
   If a student has experienced extenuating circumstances (documented evidence of illness, accident, or other circumstances beyond the student's control), an additional repeat may be considered. Consult the Admissions and Records Office for information about the appeals process. Documentation is required for this exception.
4. LEGALLY MANDATED TRAINING
   A student may repeat certain courses, "if necessary to meet legally mandated training requirements as a condition of paid or volunteered employment." This exception is considered only by petition. [55041(b)]
5. SIGNIFICANT CHANGE IN INDUSTRY OR LICENSURE STANDARDS
   Students may petition to repeat a course if there has been significant change in industry or licensure standards since the student previously took the course and the student must take the course again for employment or licensure. Documentation is required for this exception.

Any student registering to repeat a course not identified as repeatable or repeating a course more often than permitted will be dropped from the course prior to the beginning of the semester/term.

STUDENT SUCCESS & SUPPORT PROGRAM

The Student Success & Support Program (SSSP) is a process that enhances student access to the California Community Colleges and promotes and sustains the efforts of credit students to be successful in their educational endeavors. The goals of the Student Success & Support Program are to ensure that all students complete their college courses, persist to the next academic term, and achieve their educational objectives.

In order to receive priority registration at Imperial Valley College, new first time college students are required to complete the following:

- **Orientation**
- **Assessment**
- **Academic Advisement**

Continuing students are strongly encouraged to complete these steps to ensure continued success at Imperial Valley College.

Orientation
Orientation is mandatory for first-time college students. It introduces the students to critical information for student success. It provides valuable information about financial aid, students' rights and responsibilities, types of degrees, certificates, college policies & procedures, and student support services. Students can access the orientation online or through another designated orientation service on campus.

Assessment
English and Math are skills that students use in nearly all of their college classes. Assessment helps to determine students' skill levels in these areas. Students can go to the Assessment Center on a walk-in basis to take their tests. Students can visit the website at **www.imperial.edu/assessment** for available test times or call the Assessment Center at **(760) 355-6447** or **(760) 355-6450**.
Other tests are also used to comprise multiple measures, i.e. Early Assessment Program test scores.

Counseling
After taking the placement tests students need to develop, at a minimum, an abbreviated Student Educational Plan (SEP), which can be completed online as part of the orientation or by meeting with a counselor. After completion of 15 degree applicable units, students need to have a comprehensive SEP developed. Course advising is specific to each individual student and is based on recommended classes identified through the student's assessment results, educational goal, and personal interests.

****If new students do not complete the matriculation requirements it will affect their registration priority or course registration in a subsequent-term.**

Students Rights and Responsibilities
- Identify an education and career goal
- Diligently engage in course activities and complete assigned coursework
- Complete courses and maintain progress toward an education goal and completing a course of study

Institutional Responsibilities
- The College shall take steps to ensure that information regarding its matriculation policies are accessible and available to all students
- Once the student has identified a course of study and completed 15 semester units of degree applicable course work the college must provide the student with an opportunity to develop a comprehensive student education plan

Exemptions
Students may be exempt from completing orientation, assessment, and having an SEP if the student:
- already has a degree
- Is enrolling at the college for avocational purposes and completed the services at another college
- Is enrolling to complete an academy or certification program (e.g. police or fire) or
- Is a Special Admit (concurrent enrollment high school student)

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, recommended preparation advisories, and certain limitations on enrollment in a manner consistent with law and good practice. The board recognizes that, if these prerequisites, corequisites, recommended preparation 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 Policy AP 4260 Prerequisites and Co-requisites).

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.

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

Limitations on Enrollment means a condition of enrollment which may include the following:

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

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

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

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

Challenge Process

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

1. The prerequisite or corequisite has not been established in accordance with the district policy.
2. The prerequisite or corequisite is in violation of Title 5.
3. The prerequisite or corequisite is either unlawfully discriminatory or is being applied in an unlawfully discriminatory manner.

4. The student has the knowledge or ability to succeed in the course or program despite not meeting the prerequisite or corequisite.
5. The student will be subject to undue delay in attaining the goal of his or her educational plan because the prerequisite or the corequisite has not been made reasonably available.

All Prerequisite Challenge Forms must be received at least ten business days prior to the start date of the student's enrollment term. If the student has enrolled in a course pending the outcome of the petition and the petition is denied the student will be dropped from the course.

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 Student Success & Support Program Director at the Assessment Center (Bldg. 400-401), **(760) 355-6216**, to file the petition to challenge a Prerequisite/ Corequisite 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 Director of Admissions 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 section 55003 of division 6 of title 5 of the California Code of Regulations. (Administrative Procedure AP4260)

FEES AND REFUNDS

ALL fees are subject to change without advance notice by the State of California. The information published below reflects legislation, policies and fees in effect at the time of publication. Students who fail to pay enrollment fees, health fee, instructional materials fee, or nonresident fees in a timely manner risk not being eligible to register and/or being dropped for non-payment.

NOTE: *If you participate in priority registration you will have five (5) business days from the first point of enrollment to pay all fees generated as of that day or you may be dropped from all classes and wait lists. If you sign up for a payment plan (FACTs/e-cashier) you will not be dropped from your classes.*

Enrollment Fee - Resident Student
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 a Tuition/Enrollment Fee each term. 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 IVC Financial Aid Office.

Enrollment Fee $46.00 per unit

Enrollment Fee - Nonresident and International Students
Nonresidents and international students are required to pay tuition charges of $239.00 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.

Foreign and Non-Resident Enrollment Fee $239.00 per unit

Student Health Fee
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.

Fall/Spring $19.00 per term
Summer/Winter $15.00 per term

Instructional Materials Fee
Required of all students enrolled in certain courses. Courses may carry a nominal fee for instructional materials provided to students throughout the semester.

Student Representation Fee
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.

Student Representation Fee $1.00 per term

Parking Fee
Required of all students who park on campus, at the following rates. Note: Students enrolled solely in off-campus classes are not required to pay the parking fee.

Fall/Spring	**$25.00 per vehicle** **$20.00 each additional vehicle** **$15.00 per motorcycle**
Summer/Winter	**$15.00 per vehicle** **$10.00 each additional vehicle** **$12.00 per motorcycle**

Order parking permits online at **www.imperial.edu**

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.

Refund Policy
There is no need to apply for a refund. All eligible refunds will be processed automatically according to the financial aid disbursement schedule, except for periods of registration or late registration.

Credit Card Refunds – Students may request a credit card refund if their original payment was made by a credit card. Refunds may be requested by calling (760) 355-6368.

Transcript Fee
All outstanding financial and other obligations to the College must be met prior to the issuance of transcripts.

Imperial Valley College is able to offer to our current and alumni students Secure Transcript from Parchment – the secure, electronic way to request and send transcripts. It's easy to use, it's secure, and it's available 24/7. Parchment will deliver your official transcript anywhere you need it to go - other colleges and universities, scholarship funds, employers, even to yourself if you need it. Instructions for requesting transcripts are available on the College website at **www.imperial.edu**. From the IVC website click on Request Your Transcripts. You can also access the Parchment website directly at **www.Parchment.com**.

NOTE: *The College cannot accept transcript requests by email, fax or phone.*

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STUDENT SUPPORT SERVICES AND SPECIAL PROGRAMS

FINANCIAL AID

Location: Building 1700, (760) 355-6266

Financial aid programs are intended to help eligible students pay for college expenses including books, fees, transportation, and other necessities. Often students assume that they will not qualify for financial aid; however the IVC Financial Aid Office encourages students to become informed about the variety of aid programs available to community college students.

Financial aid funds are administered in accordance with federal and state regulations governing 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 information reported on the Free Application for Federal Student Aid (FAFSA), or the California Dream Act Application.

WHO QUALIFIES FOR FINANCIAL AID?

To receive aid, you must:

1. Prove financial need based on federal and state guidelines.
2. Have a high school diploma or GED.
3. Be enrolled as a regular student working toward a degree or certificate.
4. Be a U.S. citizen or eligible non-citizen. Others may qualify for state aid, see the Califronia Dream Act section.
5. Be making satisfactory academic progress.
6. Not be in default on any educational loan or owe a refund on an educational grant.
7. Register with the Selective Service System (applies to male students only).

Free Application for Federal Student Aid (FAFSA)
To apply for financial aid, students must complete the Free Application for Federal Student Aid (FAFSA) online at **www.fafsa.ed.gov**. The FAFSA is used to determine eligibility for all state and federal financial aid.

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, and complete their program within maximum timeframe standards. Failure to meet these standards will result in the loss of all federal and some state aid.

Return of Title IV Funds
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.

California Dream Act
Students who meet AB 540 criteria may apply for State aid by completing the California Dream Act Application. Please contact the Financial Aid Office for more information.

IMPERIAL VALLEY COLLEGE FOUNDATION EST. 1964

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 or Foundation Offices for a current list of all the scholarships that are available or visit **www.imperial.edu/scholarships**

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

Financial Aid Programs at IVC

STATE PROGRAMS

- **Board of Governors Fee Waiver:** A program for California residents attending a community college. The fee waiver pays for enrollment fees for eligible students. It does not cover parking, lab, material, health fees, or the student representation fee.
- **Cal Grant:** A state-funded grant program for California residents. All Cal Grant award offers are subject to the approval of the final state budget. **www.csac.ca.gov**
- **Full - Time Student Success Grant:** A state-funded grant program that pays up to $300 per Semester to Cal Grant B and C recipients who enrolled in 12 or more units.

FEDERAL PROGRAMS

- F**ederal Pell Grant:** A grant program for students who have not earned a bachelor's or professional degree. Students must file a FAFSA and demonstrate financial need.
- **Federal Supplemental Educational Opportunity Grant (FSEOG):** A program that funds grants based on demonstrated exceptional financial need. Priority is given to Pell Grant recipients. Funding at IVC is limited.
- **Federal Work Study (FWS)**: A program that funds part-time job opportunities to students with financial need. Students must be enrolled in at least 6 units. Funding is very limited.

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.

Scholarships

Imperial Valley College offers scholarships through the college's Foundation Office. Scholarships, as opposed to Financial Aid which is awarded based on need, are awarded based on academic achievement and community & campus service. Recipients are determined by the Scholarship Selection Committee, which reviews student scholarship applications and, for some scholarships, conducts oral interviews.

Specific information about each scholarship and the online application are available at www.imperial.edu/scholarships. Scholarship recipients are selected each spring, with award monies disbursed the following fall upon verification of the student's enrollment at the college. All applicants are notified in May. Scholarships are also available from sources beyond Imperial Valley College. The following sites may be helpful:

www.imperial.edu/scholarships
www.CollegeIsNext.com
www.FastWeb.com
www.College-Scholarships.com
www.FindTuition.com
www.LatinoCollegeDollars.org
www.ScholarshipExperts.com
www.Scholarships.com

COUNSELING SERVICES

Location: Hector L. Lopez Student Services Center, Building 100, (760) 355-6543

Imperial Valley College counseling services help students with a variety of educational, career, vocational, as well as personal issues/concerns. Students clarify their needs, make decisions, set goals and deal effectively with personal obstacles with the help of counseling faculty. Confidentiality is paramount in the relationship between student and counselor. An individual appointment is necessary for students who wish to meet with a counselor for academic planning, transcript evaluation and career counseling. It is advisable for students to make an appointment to allow sufficient time to have their questions answered on a one-to-one basis. Call (**760) 355-6543** for information or to schedule an appointment.

Academic Counseling
Counselors review transcripts from other colleges and explore transfer options/requirements based on a declared major. Counselors work in conjunction with students to develop a personalized comprehensive Student Educational Plan (SEP) via the Internet-based DegreeWorks program.

Career Counseling
Imperial Valley College counselors are trained to provide students with career counseling, but if students wish to perform a comprehensive research, they can enroll in Counseling 100, Personal and Career Development (COUN 100). The course will provide students with personal and career guidance, which includes interest inventories and referrals to off-campus websites to supplement their research.

Personal Counseling
Personal counseling is provided to students upon request; students may also receive psychological services in the Health and Wellness Center. In addition, Imperial Valley College offers Counseling 120, College Success Skills (COUN 120), which includes: interpersonal communication, self-awareness, stress management, behavior change, and referral to community resources.

Drop-in Counseling
Drop-in counseling provides students with the opportunity to meet with a counselor on a "first-come, first-served" basis for answers to quick questions. The duration of a drop-in counseling session is a maximum of 30 minutes. Drop-in counseling sessions are available daily. The counseling receptionist will inform you what services can be provided during a drop-in session (i.e. forms).

Transfer Center

Location: Hector L. Lopez Student Services Center, Building 100, (760) 355-6543

The IVC Transfer Center strives to make transferring to the university system as smooth and seamless as possible. The Transfer Center provides information, services and sponsors special events for students who are preparing to transfer to four-year colleges and universities. The center provides information about transfer programs, general education requirements and arranges appointments with representatives from four-year colleges and universities. Assistance with online applications for admission to California State University (CSU), University of California (UC), California's Private/Independent and Out-of-State Colleges and Universities is available in the Transfer Center. The Transfer Center sponsors a Spring Semester mini-fair each semester, a College and University Day in the fall semester with representatives from colleges and universities throughout California and out-of-state universities, and conducts workshops on the transfer process.

The Transfer Center also provides counseling and resources for students that include college catalogs, articulation agreements, online computer resources, and transfer counseling.

Disabled Student Programs and Services (DSPS)

Location: Mel Wendrick Access Center, Health Sciences Building, Rm. 2107 (760) 355-6434/6313

The function of the Disabled Student Programs and Services (DSPS) unit is to accommodate for students' disabilities regardless of a person's educational limitations, enabling that individual to participate in the educational experience at Imperial Valley College to achieve their academic and vocational goals.

The students are eligible for accommodations related to their disability under Section 504 of the Rehabilitation Act and the American with Disabilities Act. Any student interested in receiving services must contact the DSPS well before classes start to establish eligibility to insure timely provisions of services. Information can be found on our website: **http://www.imperial.edu/students/dsps**. Participation in the program is voluntary.

Eligible students who have a verifiable disability may qualify for support services through DSPS. Services are provided to students with physical, learning, vision, hearing, communication, psychological disabilities and other health impairments.

Educational accommodations arranged through the DSPS office include priority registration; counseling, testing accommodations, note takers, interpreters for deaf students, LD assessment, equipment such as print enlargers, recorders and other alternate media, adapted computer lab and instruction. Liaison with community agencies is also an important component of the DSPS program. The Workability III program, in collaboration with the Department of Rehabilitation (DOR), offers pre-employment workshops, as well as direct job placement, and post employment follow-up for clients of DOR. The campus is physically accessible.

Educational Talent Search

Building 2000, (760) 355-6109

Imperial Valley College Educational Talent Search is a federally funded program designed to help low-income and potential first generation college bound students gain entry to and eventually graduate from an institution of higher education. The goal of the program is to provide assistance to these students as a means to facilitate their postsecondary institutional educational objectives. The ETS staff provides many services aimed at preparing participants for college and assisting participants with college related activities. The Educational Talent Search Program staff is available to students until graduation from high school and in the transition process to college. Some of the services provided include, but are not limited to: Academic and Career Counseling, Career and College Prep Workshops, Financial Aid Assistance, College Admission Process Assistance, Tutorial Assistance, Parental involvement, Fieldtrips to Universities, Assistance to Re-enter High School or College. There are eligibility requirements and the application can be downloaded at: **www.imperial.edu/students/talent-search/**.

Upward Bound

Building 2000, (760) 355-6252

The Imperial Valley College Upward Bound Program provides fundamental support to participants in their preparation of college entrance. Upward Bound is a federally funded program providing opportunities for participants to succeed in their precollege performance and ultimately in their higher education pursuits. Upward Bound serves: high school students from low-income families in which neither parent holds a bachelor's degree. The goal of Upward Bound is to increase the rate at which participants complete secondary education and enroll in and graduate from institutions of postsecondary education. Upward Bound provides academic instruction in mathematics, composition, literature, science and foreign languages. Other services include tutoring, counseling, mentoring, and cultural enrichment services designed to improve the financial and economic literacy of students. These services and activities are provided during the Summer Residential at UCSD – Bridge at IVC – and Academic Year Services at the high school sites. For program offerings and eligibility requirements please visit the website at: **www.imperial.edu/students/upward-bound**.

Student Support Services (SSS)

Location: Hector L. Lopez Student Services Center, Building 100, (760) 355-6379

Student Support Services is a federally funded program designed for students who possess the potential and motivation to succeed in college. The primary goal of the program is to provide support and to ensure students the opportunity for the best possible education. Services include, but are not limited to, academic, career and personal counseling; cultural and educational field trips; and workshops.

Cooperative Agencies Resources for Education (CARE)

Location: Hector L. Lopez Student Services Center, Building 100, (760) 355-6407

The primary goal of the CARE program is to provide additional support services that ensure the academic success of single parents who also are CalWORKs participants. There is a heavy emphasis on personal counseling and on referrals to community agencies that provide services beneficial to CARE students. The CARE program also provides academic and career counseling, referral to childcare services, priority registration as well as all of the services provided to EOPS students. Students applying to the CARE program must also apply to the EOPS program. Further information may be obtained at the EOPS office.

Website: **www.imperial.edu/students/eops/**

Extended Opportunity Program and Services (EOPS)

Location: Hector L. Lopez Student Services Center, Building 100, (760) 355-6407

Extended Opportunity Programs and Services (EOPS) is a state funded program designed to provide academic support services to low income and educationally disadvantaged students. EOPS is composed of a group of professionals ready to assist you with the resolution of both academic and personal issues. Our staff is trained to understand the problems of our culturally diverse population and strives to meet student needs that are as diverse as our student population. EOPS services include academic, personal, and career counseling, priority registration, tutoring, book grants, EOPS work-study positions, assistance with the transfer process, and referrals to campus resources as well as referrals to community agencies that provide resources beneficial to EOPS students. You may submit your application online (located on the college's website under EOPS) or pick up an application at the EOPS office beginning May 1 for the fall semester and November 1 for the spring semester.

CalWORKs Program (CalWORKs)

Location: Hector L. Lopez Student Services Center, Building 100, (760) 355-6556 or (760) 355-6129

Imperial Valley College's California Work Opportunities and Responsibilities to Kids (CalWORKs) program partners with Imperial County Department of Social Services to provide many supportive services to CalWORKs cash aid recipients. Services include college work-study, child care, transportation assistance, help to pay for books and other costs related to the approved Educational Plan along with specialized counseling. Priority registration can also be given to students who are in CalWORKs.

CalWORKs recipient students are encouraged to meet with the IVC CalWORKs counselor as soon as possible when they come to IVC.

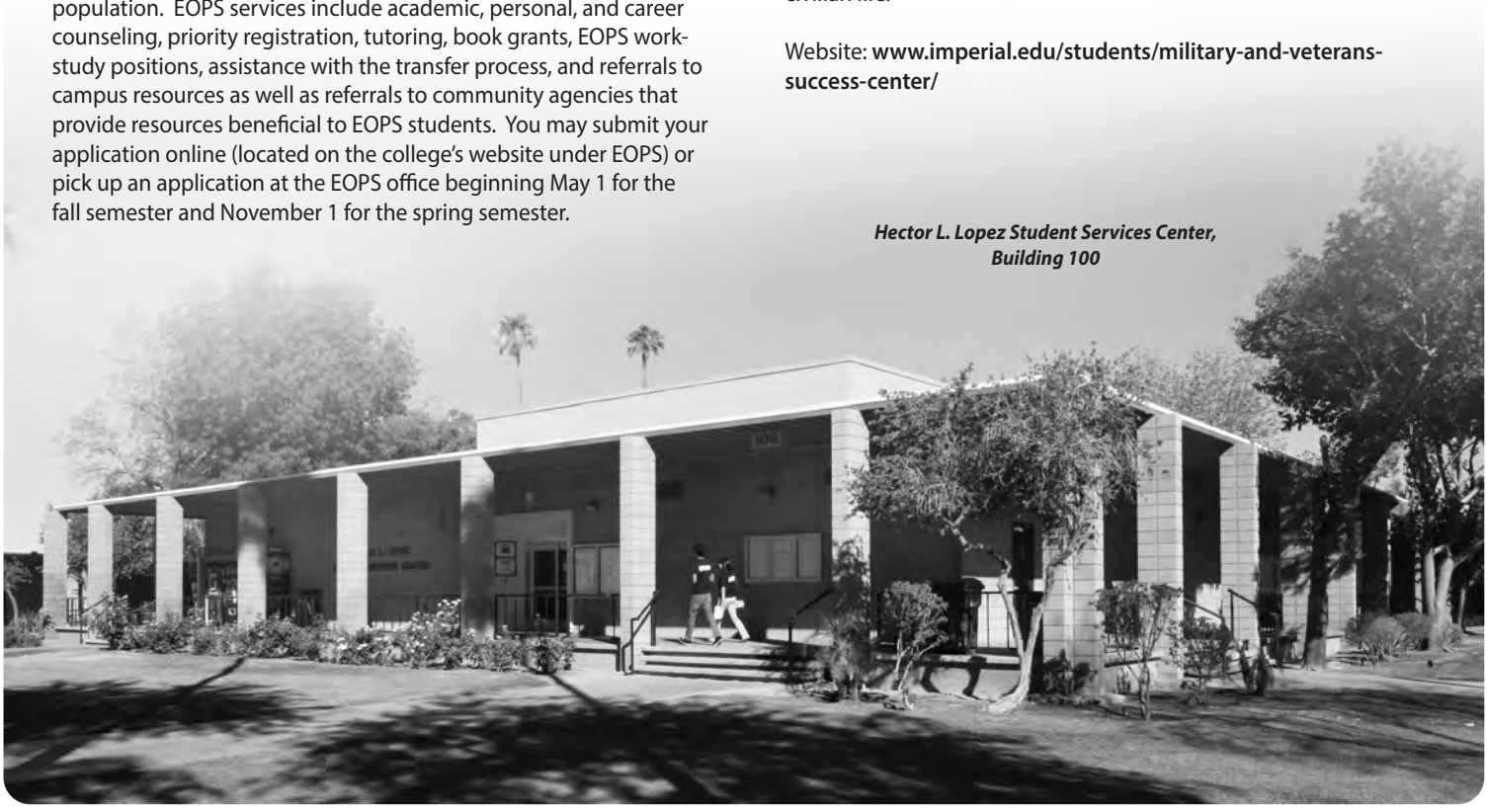
Website: **www.imperial.edu/students/calworks/counseling-services**

Military and Veteran Success Center (MVSC)

Location: College Center Building 600, Office 624, (760) 355-6141

The mission of Imperial Valley College's Military & Veteran Success Center is to provide a holistic approach to serving military/veteran students through focusing on three key areas: 1) Academics, 2) Health and Wellness, and 3) Camaraderie; to serve as a central hub that connects military/veteran students, as well as their families, to campus and community resources that reinforce the concept of AT EASE (Academic Transition and Employment Access for Student Excellence). Our goal is to ensure a seamless transition from military to civilian life.

Website: **www.imperial.edu/students/military-and-veterans-success-center/**



Hector L. Lopez Student Services Center, Building 100

VETERANS SERVICES

Veterans Services are located within the Military and Veteran Success Center, Building 600, Office 624 (760) 355-6141. The Certifying Official (Veteran's Rep) is located at the Office of Financial Aid, Building 1700, (760) 355-6267

Montgomery G.I. Bill Education Benefits
Imperial Valley College (IVC) is approved by the Veterans' Administration 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 Department of Veterans Affairs (DVA) administers several educational assistance programs for which basic eligibility may vary. Generally, only the DVA can determine an applicant's eligibility for educational assistance.

All persons receiving educational benefits must personally contact the Veterans Rep after enrollment every semester to continue 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.

Priority Registration
As our way of saying thanks for serving our country, Veterans receive priority registration by completing the Priority Registration Form. This form is available by contacting the Veterans' Rep or on IVC's Veterans' website: **https://www.imperial.edu/veterans-forms**

Military Credit
Veterans can receive credit for HE 100 (2.0 units) and PE 110 (2.0 units) by presentation of the DD214 to the Veterans Rep and obtaining the Add Authorization code to add the courses.

Veterans can also receive up to 16 units for education experience in the Armed Services. For more information please refer to this website: **www.militaryguides.acenet.edu** or see a Counselor.

Disabled Veterans
Veterans who qualify for educational benefits as disabled veterans may be entitled to special educational benefits. Veterans should visit the DVA Regional office, 8810 Rio San Diego, CA 92108 to determine their eligibility for disabled status. Veterans with disabilities are encouraged to investigate services offered through IVC's 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 (VA) or the State of California. Inquiries regarding these benefits should be made through the DVA Regional Office.

Student Liability
The veteran/dependent student assumes full liability for any overpayment of veteran's education allowance benefits. **The final responsibility for monitoring the process of qualifying for educational benefits rest with the individual applicant.**

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

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.

Certification can be reinstated once the veteran student has achieved a cumulative GPA of at least 2.0 and an overall completion rate above 50 percent.

Tutorial Services
Tutorial services are available to all veterans who meet established VA criteria. Please contact the VA for more information.

Transcripts
All official transcripts of prior college work and military training, should be on file in the Admissions and 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.

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 Rep for more information.

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*
*Chapters 32 and 1606 only.
Post 9/11 (Chapter 33) entitlements differ. Please see the Veteran's Rep 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 with different number of units required for entitlement. See veterans rep for more information.

Withdrawal/Change of Classes
Veterans are required to notify the campus Veteran's Rep when they stop attending class, withdraw from the college or add or drop a class. Such changes should be reported immediately.

ONLINE SERVICES AND DISTANCE EDUCATION

Student Email

Students are automatically provided a **username@students.imperial.edu** email account shortly after submitting their CCCApply application to the college. Usernames are assigned automatically (customized names are not provided), and accounts will remain available even after the student has completed their studies at the college. When the account is created, the password will automatically be synced with your current WebSTAR password. Students can change their email password by updating their WebSTAR password (your email password should be updated in 5 minutes or less automatically).

You can login to your account by visiting: **outlook.office365.com**. Once a student has logged into their student email account, they can setup email forwarding so that copies of their student email can also be sent to a personal email address.

For the most current information about how to use your student email account, please log on to: **my.imperial.edu/student-email** (your Student ID and WebSTAR password will be required).

Important Notice: This address will be the primary email address we'll use to contact you while you are studying at Imperial Valley College (this includes all Financial Aid contacts). You will also be required to use this account for a number of new services we will be launching in the near future for students. Students are expected to check their email on a frequent basis in order to stay current with college-related communications. Students have the responsibility to recognize that certain communications may be time-critical. The best strategy is to get accustomed to checking your student email account at least once a day while you are a student at IVC, especially during critical times such as registration.

Distance Education

Distance Education: Online Classes

Imperial Valley College offers courses online to provide more flexibility and accessibility for all students. Online courses can be taken using any Internet-connected computer, and are an alternative for those living at a distance from the campus or those unable to be on campus during regular class hours. Delivered through the Internet via the Blackboard Learn and /or Canvas course management system, these courses are either fully online or a hybrid mix of online and classroom modalities.

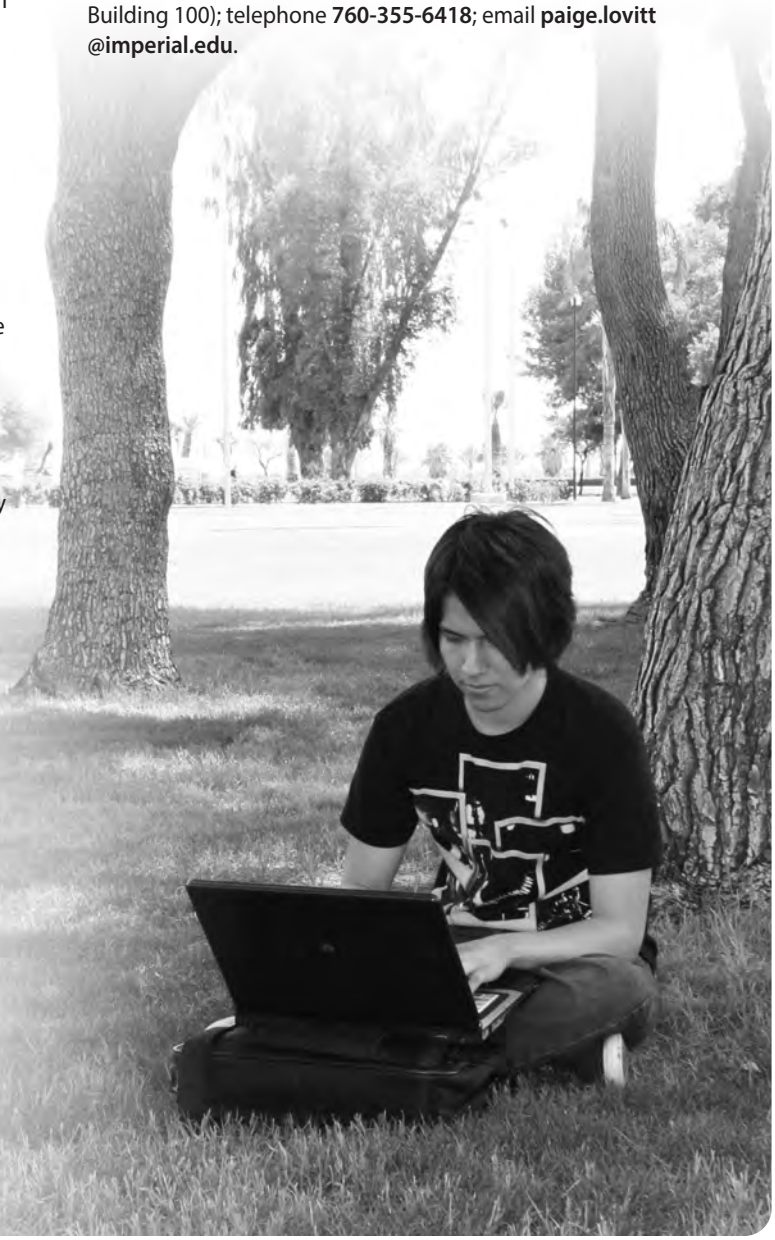
Courses offered via distance learning are subject to the same rigorous evaluation as traditional courses. Students enroll in online courses through the regular registration process. Fees and academic credits for online courses are the same as they are for traditional courses. For additional information, please consult the IVC Schedule of Classes or the Distance Education Webpage at **http://imperial.edu/de.**

Computers are available for students in the campus library and in several computer labs located throughout the campus. In addition, IVC maintains a powerful Wi-Fi network for students who wish to use their own laptops or other mobile devices while on campus. Students new to online learning are encouraged to enroll in the Learning Online Orientation course (CIS 050).

IVC started offering Distance Education courses in 2004, when the online program started with 60 students. Today, we offer numerous online courses in a wide variety of disciplines. The college provides a wide range of online and phone support services to assist all students. For more information, please contact the Distance Education Coordinator.

Distance Education Counseling

Online counseling is available for IVC students who are taking online courses. Services are provided by Paige Lovitt, Distance Education Counselor (office in the Hector L. Lopez Student Center, Building 100); telephone **760-355-6418**; email **paige.lovitt@imperial.edu**.



ADDITIONAL RESOURCES AND CENTERS FOR STUDENTS

Athletics
Intercollegiate competition is held in a variety of sports. IVC competes in the Pacific Coast Athletic Conference. The Pacific Coast Athletic Conference includes College of the Desert, Grossmont, Mira Costa, Palomar, San Diego City, San Diego Mesa, San Diego Miramar, Cuyamaca, San Bernadino Valley, Southwestern Colleges and Mt. San Jacinto.

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 an eating and social venue. It also has a snack and coffee bar that sells refreshments and meals to students, staff and the general public.

Early Education Labs
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 (new-born- 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. Location: Buildings 2200 and 2300. Phone: **(760) 355-6528** or **(760) 355-6232**.

Community Service Classes
Community service classes are offered as fee-based, not for credit 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 entirely by class fees. See the current Imperial Valley College Class Schedule for community service courses or go online at **http://community.imperial.edu**

Exercise Science, Wellness, and Sport Program
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 (3.0 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.

Non-Credit Education
Non-credit education is an alternative instructional delivery system for students not desiring college credits. 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**.

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.

Student Health Services
As an Imperial Valley College student: Your pre-paid session health fee entitles you to Student Health Services. Pioneers Memorial Healthcare District and El Centro Regional Medical Center were selected as providers of the basic health service such as first aid and care for minor illnesses. The services also include health promotion, education programs and mental health counseling. Walk-in and appointment services may be accessed by scheduling an appointment or walking in. Services are not available when IVC is not in session.

To access the services offered, every student must: 1) bring a current IVC Identification Card, 2) bring a current copy of WebSTAR classes, and 3) inform the healthcare staff you are a student at IVC. All students are strongly encouraged to carry outside insurance coverage for situations or issues not covered by Student Health Services. Students needing additional, non-covered services can visit the following locations:

Campus and Emergency Room Locations

Student Health Center (SHC on campus)
380 East Aten Road, Building 1500, Library Room 1536
Imperial, CA 92251
(760) 355-6310

El Centro Regional Medical Center Emergency Room (ER)
1415 Ross Avenue
El Centro, CA 92243
(760) 339-1700

Pioneers Memorial Hospital
Emergency Room (ER)
207 West Legion Road
Brawley, CA 92227

Healthcare Clinics
(One $40 sick visit is available per term a the following locations to currently enrolled students)

Calexico Health Center (CHC)
450 East Birch St.
Calexico, CA 92231
(760) 768-6262

Occupational Health Center (OHC)
751 West Legion Road, Suite 103
Brawley, CA 92227
(760) 351-4400

Pioneers Health Center (PHC El Centro)
1463 S. 4th Street
El Centro, CA 92243
(760) 337-1616

ECRMC El Centro Outpatient Clinic
385 W. Main Street
El Centro, CA 92243
(760) 482-9100

ECRMC Calexico Outpatient Clinic
495 E. Birch Street
Calexico, CA 92231
(760) 357-0508

Please contact each clinic for hours of operation.

IN CASE OF EMERGENCY
If you have a life-threatening illness or injury that requires an ambulance, call 911 immediately.
Emergency costs are not covered by Student Health Services

The **Student Health Fee** allows students to receive health services on campus and at various health centers in the community. The fee is not related to health insurance and is required whether or not students choose to use the Center. The Board of Governors (BOG) fee waiver will not cover this fee. Students receiving a BOG will need to pay the fee. Exemptions from the fee may be granted for the following:

- Students who depend exclusively upon prayer for healing in accordance with the teachings of a bona fide religious sect, denomination, or organization.
- Students who are attending IVC under an approved apprenticeship training program.

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.

Spencer Library and Media Center

Location: Building 1500
Circulation Desk: (760) 355-6409
Reference Desk: (760) 355-6445

The Imperial Valley College Spencer Library provides students, faculty, and staff a wealth of information resources including books, e-books, and Web-based research databases, including many full-text journals, as well as print newspapers and journals.

The Spencer Library offers resources in a variety of formats: print, Web-based, microfilm, videotape, DVD, and CD. Over 50,000 books, 425 periodicals and newspapers, Web-based research databases, historical runs of periodicals on microfilm, and several hundred videotapes, DVDs and musical CDs are available.

Library Computers
Forty-eight computer workstations in the library provide currently enrolled students access to the Spencer Library's online catalog, e-books, research databases, the Internet, student e-mail, and Microsoft software. The computer facilities in the library are for education and research purposes only. Campus-wide Wi-Fi provides students with access to the Internet and library resources on their own devices. Students and faculty can also access the library's electronic resources from off campus.

Library Classroom
The Spencer Library maintains a classroom (room 1502) equipped with twenty-five computer workstations. Reference librarians conduct regular Information Literacy training classes for groups and classes to help students improve their research skills.

The Library is a member of the San Diego and Imperial Counties Community Colleges Learning Resources Consortium (SDICCCLRC), and the Online Computer Library Center (OCLC). Information about the Spencer Library and access to its online catalog and research databases are available through the library's link on the IVC home page.

Library Policies
Spencer Library policies, services, and hours are described in detail on the library Web-site at: **http://www.imperial.edu/library**.

Information Literacy/Competency
Imperial Valley College library staff have a special role in assisting faculty and students to develop skills in Information Literacy Competency (ILO4). To become lifelong learners, students need to know not just how to learn but how to teach themselves. Students must acquire the skills necessary to be independent, self-directed learners. The information competencies that the College teaches all students include the ability to

- **Identify** information needs and determine the extent of information needed, clearly and concisely, define the question to be answered, and realize that the question may evolve.
- **Locate** and retrieve appropriate sources of information.
  - o Understand the structure of information: how it is produced, disseminated, organized, cataloged, stored, and retrieved, and how these factors vary by discipline. For example, how do scholars or professionals keep up to date in and contribute to their field?
  - o Use indexes and other search tools effectively and efficiently to find specific resources (e.g., select appropriate tools, formulate search strategies, use appropriate search techniques, evaluate results).
- **Evaluate** information and its sources critically.
  - o Understand different types of sources and formats, and how to use them.
  - o Evaluate the relevance and reliability of the information retrieved.
- **Synthesize** the information retrieved, integrate it into one's current knowledge base, and successfully apply it to the original information need.
- **Present** this newly acquired knowledge so that others can use it.
  - o Determine the audience's needs and the best presentation format; know the standards and criteria for presenting information in the relevant subject/field/discipline.
  - o Properly cite sources: direct the audience to sources of further information and acknowledge one's sources.
- **Translate** these abilities and concepts to new projects and disciplines.

Centers for Students

Learning and Tutoring Services Centers
Learning Services includes the Study Skills Center and the Reading/Writing/Language 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 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 workshops, and monitors equipped with VCR and DVD. Tutoring is provided by appointment and on a walk-in basis. The tutors are students who have previously excelled in their own coursework and have the recommendation of their instructor. Some IVC faculty members also serve as tutors.

Study Skills Center Tutorial Services
Location: Library Room 1511, (760) 355-6384

Free tutoring is available to all students on a walk-in basis in the Library. There is also one-on-one tutoring available by appointment to EOPS and DSP&S students. Students should go early in the semester to fully benefit from tutoring services. Workshops are also offered in study skills such as test taking, note taking, and using the library effectively.

Pauline Benoit Rice IVC Language Lab
Location: 2600 Building, Room 2608 (760) 355-6292

All students enrolled in foreign languages, English as a Second Language, or speech classes can use multimedia learning experiences as a supplement to formal class instruction. Lab classes provide students with an intensive language exposure. Instructors bring classes into the Lab as a whole, but students may also use the Lab individually.

Jean Raulston Reading/Writing Lab
Location: 2600 Building, Room 2603 (760) 355-6391

Reading instructors schedule time in the Lab during which the whole class works on a lab assignment under the teacher's supervision. Tutors are available to assist if needed. Individual reading students may also use the Lab on their own. Writing students may also come to the Lab with a class or individually to work on specific assignments. Students from any discipline may also make an appointment to receive tutoring for specific writing assignments.

Math Lab
Location: Room 2500, (760) 355-6160

The primary purpose of the Math Lab is to help students in basic math, beginning algebra and intermediate algebra. The lab has 48 workstations equipped with multi-media learning resources: computers, DVD players, and VCRs. In addition, study rooms and reference books are available. Tutors are available to assist students during the time the Math Lab is open.

Business Division Computer Lab
Location: Room 2610

The Business Division maintains a multimedia computer lab for students. Room 2610 is an open lab and has 30 computer workstations. Accounting, computer information systems, programming, office administration, economics, management, and marketing courses are supported, as well as other courses across campus. The lab has current software applications and internet access..

COLLEGE POLICIES, RULES AND REGULATIONS

COLLEGE POLICIES, RULES AND REGULATIONS

Academic Freedom

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.

Nondiscrimination and Sexual Harassment Policy

Imperial Valley College does not discriminate in the admission nor in the offering of programs and activities because of ethnic group identification, gender, gender identity, gender expression, genetic information, pregnancy, race, color, national origin, religion, age, sex, physical disability, mental disability ancestry, sexual orientation, language, accent, citizenship status, transgender status, parental status, marital status, economic status, or veteran status, medical condition or on the basis of these perceived characteristics, or based on association with a person or group with one or more actual or perceived characteristics.

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

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

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

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

The coordinator for Imperial Valley College's compliance with Section 504 of the Rehabilitation Act of 1973 is the Chief Human Resources Officer, 380 East Aten Road, Imperial, CA 92251, **(760) 355-6212**, TTY **(760) 355-4174**. The Title IX officers for Imperial Valley College are the Chief Human Resources Officer, (760) 355-6212 and the Chief Student Services Officer (760) 355-6456, 380 East Aten Road, Imperial, CA 92251.

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: awards and degrees received, participation in official college activities and sports.

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 Controller 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.

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).

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. This includes the parking lots.

Courseload Limits

An average courseload of 15-16 units each semester or term is necessary for a student to graduate within a two-year period. Students may carry a maximum of 19 units without restriction (9 units during the Summer or Winter Sessions). A student who wishes to exceed the 19-unit maximum limit must file a petition for "Overload" form. Petitions are available in the Hector J. Lopez Student Services Center, Building 100, and must be submitted to the Admissions and Records Office.

The Imperial Community College District does not specify a minimum load except when the student must meet certain eligibility requirements for financial aid, student employment, Social Security certification, veterans enrollment certification, insurance eligibility, international student status, athletic eligibility, or other special programs. Eligibility for veteran's benefits requires enrollment in the required units for each week of the certification period. The load requirement is as follows:

Full-time: 12 or more units
Three-quarter time: 9-11.5 units
One-half time: 6-8.5 units

Basic Skills Coursework Limit
Courses in the basic skills category include those courses that are non-degree applicable in writing, special services, and mathematics. In most cases students may not enroll in more than 30 semester units of basic skills coursework.

The following courses are exempted from this limitation:
1. English as a Second Language
2. Certain DSPS courses associated with Learning Disabilities

The college may grant a waiver to the 30-unit basic skills course limitation to any student who demonstrates significant and measurable progress toward the development of the skills needed for successful enrollment in college level courses. If granted a Basic Skills Waiver grants one additional semester beyond the 30 unit cap. Students who have exhausted the unit limitation will be referred to appropriate noncredit education programs. For waivers or further information regarding this policy, students should contact the Admissions and Records Office.

Class Attendance

An instructor will drop students who fail to attend the first meeting of any class for which they have officially enrolled unless prior arrangements have been made with the instructor. Instructors may also drop a student from a class for excessive absences, defined as the number of continuous, unexcused absences exceeding the number of hours the class meets per week. Be aware, it is always the student's responsibility to withdraw officially from classes. In no case should students presume they have been dropped by the instructor.

Open Enrollment

Reference: Title 5 Section 51006

The policy of Imperial Valley College District is that, unless specifically exempted by statue or regulation, every course, course selection, or class, reported for state aid, wherever offered and maintained by the 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 regulations contained in Article 2.5 (commencing with Section 55200) of Subchapter 1 of Chapter 6 of Division 6 of title 5 of the California Code of Regulations.

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 English 009 (ENGL 009) after having successfully completed English 110 (ENGL 110). (This does not apply to vocational refresher courses.)

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.

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.

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

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
W	Withdrawal
MW	Military Withdrawal

Symbol Definitions

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

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

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.

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.

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.

Policy For Earning College Credit

Unit of Credit
A unit of credit is approximately one hour of class plus two hours of study per week, or three hours of laboratory per week carried through the term. For each hour of lecture/discussion, two hours of preparation are assumed. To receive credit , the student must be officially enrolled in the course. Students not officially enrolled by the proper date will not receive credit for the course, even if they complete all course work.

The College provides the following methods of receiving credit for units toward graduation:

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 15 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. Location: Hector L. Lopez Student Services Center, Building 100, Telephone: **(760) 355-6543**.

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.

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.

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

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

Credit for 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 sudent petition requiring the recommendation of the instructor, the Department Chair and the Dean 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 HE 100 (2.0 units) and PE 110 (2.0 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 12.0 additional units may be awarded for work completed successfully in military service schools beyond basic training as recommended by the American Council on Education in the Guide to the Evaluation of Educational Experiences in the Armed Services.

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

A maximum of 16.0 units will be granted for military service including two (2.0) units each for HE 100 and PE 110, and up to 12.0 additional units for service schools/training completed.

Credit for Advanced Placement (AP) Examinations
Credit will be granted for scores of 3, 4, or 5 on exams 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 is required.

Credit toward an IVC associate's degree (AA/AS or AA-T/AS-T) 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.

2017-18 IMPERIAL VALLEY COLLEGE (IVC) ADVANCED PLACEMENT (AP) CHART

Students may earn college credit using Advanced Placement (AP) exams with scores of 3, 4, or 5. AP credit can be used to fulfill IGETC, CSU GE, AA-T/AS-T, and A.A./A.S. general education (GE) and/or major requirements. In order to earn college credit students must send an official AP Score Report from The College Board to the IVC Admissions and Records Office. AP Score Reports are requested online at https://apscore.collegeboard.org/scores/.

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

AP EXAMINATION	IVC Course and/or Unit Award	IVC AA/AS General Education	CSU GE Area & Units Awarded	CSU – Units Earned Toward Transfer	IGETC Area & Units Awarded	UC - Units Earned Toward Transfer
Art History	**No Course Equivalency** 3 semester units	Humanities	Area C1 or C2 3 semester units	6.0	Area 3A or 3B 3 semester units	8 quarter/5.3 semester units
Biology	**BIOL 100** 4 semester units	Natural Science	Area B2 and B3 4 semester units	6.0	Area 5B (with lab) 4 semester units	8 quarter/5.3 semester units
Calculus AB	**Score of 3 - MATH 190** **Score of 4 or 5 - MATH 192** 4 semester units	Language & Rationality	Area B4 3 semester units	3.0[1]	Area 2A 3 semester units	4 quarter/2.7 semester units[2]
Calculus BC	**Score of 3 - MATH 192** 4 semester units **Score of 4 or 5 – MATH 192 & MATH 194** 8 semester units	Language & Rationality	Area B4 3 semester units	6.0[1]	Area 2A 3 semester units	8 quarter/5.3 semester units[2]
Calculus BC/AB Subscore	**Math 192** 4 semester units	Language & Rationality	Area B4 3 semester units	3.0[1]	Area 2A 3 semester units	8 quarter/5.3 semester units[2]
AP CALCULUS EXAM LIMITATIONS				**[1] Only one exam may be used**		**[2] Maximum credit 8 quarter/5.3 semester units**
Chemistry	**Score of 3 or 4 - CHEM 100** 4 semester units **Score of 5 - CHEM 200** 5 semester units	Natural Science	Area B1 and B3 4 semester units	6.0	Area 5A (with lab) 4 semester units	8 quarter/5.3 semester units
Chinese Language & Culture	**No Course Equivalency** 3 semester units	Humanities	Area C2 3 semester units	6.0	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units
Comparative Government & Politics	**POLS 104** 3 semester units	Social/Behavioral Sciences	Area D8 3 semester units	3.0	Area 4H 3 semester units	4 quarter/2.7 semester units
Computer Science A	**Score of 3 - No Course Equivalency** 3 semester units **Score of 4 or 5 - CS 221** 3 semester units	Language & Rationality	N/A	3.0[1]	N/A	2 quarter/1.3 semester units
Computer Science Principles	**No Course Equivalency** 3 semester units	N/A	N/A	N/A	N/A	8 quarter/5.3 semester units
AP CALCULUS AND COMPUTER SCIENCE EXAM LIMITATIONS				**[1] Only one exam may be used**		
English Language & Composition	**Score of 3 or 4 - ENGL 110** 4 semester units **Score of 5 - ENGL 110 and 201** *7 semester units	Language and Rationality	Area A2 3 semester units	6.0	Area 1A 3 semester units	8 quarter/5.3 semester units[3]
English Literature & Composition	**ENGL 110 and 102** *7 semester units	Language & Rationality and Humanities	Area A2 and C2 6 semester units	6.0	Area 1A or 3B 3 semester units	8 quarter/5.3 semester units[3]
AP ENGLISH EXAM LIMITATIONS	***Maximum 7 semester units**					**[3] Maximum credit 8 quarter/5.3 semester units**
Environmental Science	**ENVS 110** 3 semester units	Natural Science	Area B1 and B3 4 semester units	4.0	Area 5A (with lab) 3 semester units	4 quarter/2.7 semester units
European History	**Score of 3 - HIST 110** 3 semester units **Score of 4 or 5 - HIST 110 and 111** 6 semester units	Score of 3 - Social/Behavioral Sciences or Humanities Score of 4 or 5 - Social/Behavioral Sciences and Humanities	Area C2 or D6 3 semester units	6.0	Area 3B or 4F 3 semester units	8 quarter/5.3 semester units
French Language & Culture	**Score of 3 - FREN 201** 5 semester units **Score of 4 or 5 - FREN 211** 5 semester units	Humanities	Area C2 3 semester units	6.0	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units
German Language & Culture	**No Course Equivalency** 3 semester units	Humanities	Area C2 3 semester units	6.0	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units
Human Geography	**GEOG 102** 3 semester units	Social/Behavioral Sciences	Area D5 3 semester units	3.0	Area 4E 3 semester units	4 quarter/2.7 semester units

2016-17 IMPERIAL VALLEY COLLEGE (IVC) ADVANCED PLACEMENT (AP) CHART

AP EXAMINATION	IVC Course and/or Unit Award	IVC AA/AS General Education	CSU GE Area & Units Awarded	CSU – Units Earned Toward Transfer	IGETC Area & Units Awarded	UC- Units Earned Toward Transfer
Italian Language & Culture	**No Course Equivalency** 3 semester units	Humanities	Area C2 3 semester units	6.0	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units
Japanese Language & Culture	**No Course Equivalency** 3 semester units	Humanities	Area C2 3 semester units	6.0	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units
Latin	**No Course Equivalency** 3 semester units	Humanities	Area C2 3 semester units	6.0	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units
Macroeconomics	**ECON 102** 3 semester units	Social/Behavioral Sciences	Area D2 3 semester units	3.0	Area 4B 3 semester units	4 quarter/2.7 semester units
Microeconomics	**ECON 101** 3 semester units	Social/Behavioral Sciences	Area D2 3 semester units	3.0	Area 4B 3 semester units	4 quarter/2.7 semester units
Music Theory	**No Course Equivalency** 3 semester units	Humanities	N/A	6.0	N/A	8 quarter/5.3 semester units
Physics 1	**No Course Equivalency** 4 semester units	Natural Science	Area B1 and B3 4 semester units[4]	4.0 [5]	Area 5A (with lab) 4 semester units	8 quarter/5.3 semester units[6]
Physics 2	**No Course Equivalency** 4 semester units	Natural Science	Area B1 and B3 4 semester units[4]	4.0 [5]	Area 5A (with lab) 4 semester units	8 quarter/5.3 semester units[6]
Physics C: Mechanics	**PHYS 200** 4 semester units	Natural Science	Area B1 and B3 4 semester units[4]	4.0[5]	Area 5A (with lab) 3 semester units	4 quarter/2.7 semester units[6]
Physics C: Electricity & Magnetism	**PHYS 202** 4 semester units	Natural Science	Area B1 and B3 4 semester units[4]	4.0[5]	Area 5A (with lab) 3 semester units	4 quarter/2.7 semester units[6]
AP PHYSICS EXAM LIMITATIONS			**[4] Maximum of 4 semester units**	**[5] Maximum of 6 semester units**		**[6] Maximum credit 8 quarter/-5.3 semester units**
Psychology	**PSY 101** 3 semester units	Social/Behavioral Sciences	Area D9 3 semester units	3.0	Area 4I 3 semester units	4 quarter/2.7 semester units
Seminar	**No Course Equivalency** 0 semester units	N/A	N/A	3.0	N/A	N/A
Spanish Language & Culture	**Score of 3 - SPAN 200** 5 semester units **Score of 4 or 5 - SPAN 210** 5 semester units	Humanities	Area C2 3 semester units	6.0	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units
Spanish Literature & Culture	**No Course Equivalency** 3 semester units	Humanities	Area C2 3 semester units	6.0	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units
Statistics	**MATH 119** 4 semester units	Language & Rationality	Area B4 3 semester units	3.0	Area 2A 3 semester units	4 quarter/2.7 semester units
Studio Art 2D Design	**No Course Equivalency** 3 semester units	N/A	N/A	3.0	N/A	8 quarter/5.3 semester units [7]
Studio Art 3D Design	**No Course Equivalency** 3 semester units	N/A	N/A	3.0	N/A	8 quarter/5.3 semester units [7]
Studio Art Drawing	**No Course Equivalency** 3 semester units	N/A	N/A	3.0	N/A	8 quarter/5.3 semester units [7]
STUDIO ART EXAM LIMITATIONS						**[7] Maximum credit 8 quarter/ 5.3 semester units**
United States Government & Politics	**POLS 102** 3 semester units	Social/Behavioral Sciences and American Institutions	Area D8 and US-2 3 semester units	3.0	Area 4H 3 semester units	4 quarter/2.7 semester units
United States History	**Score of 3 - HIST 120** 3 semester units **Score of 4 or 5 - HIST 120 and 121** 6 semester units	Social/Behavioral Sciences and American Institutions	Area C2 or D6 and US-1 3 semester units	6.0	Area 3B or 4F 3 semester units	8 quarter/5.3 semester units
World History	**Score of 3 - HIST 100** 3 semester units **Score of 4 or 5 - HIST 100 and 101** 6 semester units	Score of 3: Social/Behavioral Sciences or Humanities Score of 4 or 5: Social/Behavioral Sciences and Humanities	Area C2 or D6 3 semester units	6.0	Area 3B or 4F 3 semester units	8 quarter/5.3 semester units

A student earning AP credit and completing an equivalent IVC course will have the unit course credit for the duplicated course deducted prior to the awarding of an associate degree.

The awarding of AP credit for an AA-T/AS-T when an IVC course award is indicated for an exam will follow the IVC course award for the major and the CSU GE or IGETC area. The units earned by the IVC course award will apply toward the required 60 CSU transferable units. When no IVC course award is indicated use the CSU GE or IGETC area and unit award for the general education pattern and the IVC unit award toward the required 60 CSU transferable units.

Credit for College Level Examination Program (CLEP)
Imperial Valley College does not accept the College Level Examination Program (CLEP) as a waiver for the English Placement examination or for credit for General Examinations.

Subject Examination: Each academic department of the college may or may not recognize the Subject Examination if a single examination measures the competency associated with the successful completion of a specific Imperial Valley College course. Generally, however, specific course credit by examination will be attained through the Credit by Examination—Specific Course Credit Policy.

CLEP scores will not be used for general education certification of Intersegmental General Education Transfer (IGETC) requirements. Any credit awarded does not necessarily transfer to other colleges. Students seeking to use CLEP credit for college transfer purposes will need to consult the transfer institution regarding its policy pertaining to CLEP.

No credit will be given to CLEP in any area in which the student has earned college credit prior to completion of CLEP examinations. Credit is awarded upon completion of one semester at Imperial Valley College. Additional information regarding the College Level Examination Program may be obtained in the Counseling Office or IVC General Catalog.

CLEP tests with a minimum score of 50 can be used toward Associate degree general education and elective requirements and CSU admission and general education certification requirements.

Imperial Valley College (IVC) will grant a maximum of 15 units of credit toward the IVC associate degree or certificate for any combination of CLEP General and Subject Examinations that have been completed with an appropriate score. CLEP credit may be used to meet Imperial Valley College graduation requirements, but will not be counted toward the 15 unit residency requirement. Students intending to transfer should be aware that CLEP credits may or may not be accepted by other colleges and universities. Students are advised to meet with a counselor regarding the use of CLEP in the student's education plan.

To receive credit for CLEP exams official transcripts sent directly from the College Board to the Admissions and Records office is required.

UC CLEP Policies: The University of California currently does not accept CLEP examinations.

Getting Started – CLEP website (for students):
http://clep.collegeboard.org/started

CLEP EXAM	PASSING SCORE #	IVC GE AREA SEMESTER UNITS AWARDED	IVC ASSOCIATE DEGREE SEMESTER UNITS AWARDED	CSU GE CERTIFICATION AREA SEMESTER UNITS AWARDED [2]	CSU MINIMUM ADMISSION SEMESTER UNITS AWARDED [1]
American Government	50	Amer. Inst. - 3 Units	3 Units	Area D8 - 3 Units	3 Units
American Literature	50	Area C – 3 Units	3 Units	Area C2 – 3 Units	3 Units
Analyzing & Interpreting Literature	50	0	3 Units	Area C2 – 3 Units	3 Units
Biology	50	Area B – 3 Units	3 Units	Area B2 – 3 Units/NoLab	3 Units
Calculus	50	Area A.2. – 3 Units	3 Units	Area B4 – 3 Units	3 Units
Chemistry	50	Area B – 3 Units	3 Units	Area B1 – 3 Units/No Lab	3 Units
College Algebra	50	Area A.2. – 3 Units	3 Units	Area B4 – 3 Units	3 Units
College Mathematics	50	0	0	N/A - 0 UNITS	0
College Composition	50	0	0	N/A - 0 UNITS	0
College Composition Modular	50	0	0	N/A - 0 UNITS	0
English Literature	50	Area C – 3 Units	3 Units	Area C2 – 3 Units	3 Units
Financial Accounting	50	0	3 Units	N/A - 0 UNITS	3 Units
French Level I [3]	50	0	6 Units	N/A - 0 UNITS	6 Units
French Level II [3]	59	Area C – 3 Units	12 Units	Area C2 – 3 Units	12 Units
German Level I [3]	50	0	6 Units	N/A - 0 UNITS	6 Units
German Level II [3]	60	Area C – 3 Units	12 Units	Area C2 – 3 Units	12 Units
History, United States I	50	0	0	Areas D6+US-1	3 Units
History, United States II	50	0	0	Areas D6+US-1	3 Units
Human Growth and Development	50	0	0	Area E – 3 Units	3 Units
Information Systems and Computer Applications	50	Area A.2. – 3 Units	3 Units	N/A - 0 UNITS	0
Introduction to Educational Psychology	50	0	0	N/A - 0 UNITS	0
Introductory Business Law	50	0	0	N/A - 0 UNITS	0
Introductory Psychology	50	Area D – 3 Units	3 Units	Area D9 – 3 Units	3 Units
Introductory Sociology	50	Area D – 3 Units	3 Units	Area D0 – 3 Units	3 Units
Natural Sciences	50	Area B – 3 Units	3 Units	Area B1 or B2 3 Units/No Lab	3 Units
Precalculus	50	Area A.2. – 3 Units	3 Units	Area B4 – 3 Units	3 Units
Principles of Macroeconomics	50	Area D – 3 Units	3 Units	Area D2 – 3 Units	3 Units
Principles of Management	50	0	3 Units	N/A - 0 UNITS	0
Principles of Marketing	50	0	3 Units	N/A - 0 UNITS	0
Principles of Microeconomics	50	Area D – 3 Units	3 Units	Area D2 – 3 Units	3 Units
Social Sciences and History	50	0	0	N/A - 0 UNITS	0
Spanish Level I [3]	50	0	6 Units	N/A - 0 UNITS	6 Units
Spanish Level II [3]	63	Area C – 3 Units	12 Units	Area C2 – 3 Units	12 Units
Western Civilization I	50	0	0	Area C2 or D6 – 3 Units	3 Units
Western Civilization II	50	0	0	Area D6 – 3 Units	3 Units

1 These units count toward eligibility for admission. The units may not all apply toward certificating for the corresponding CSU GE Breadth area. See CSU Executive Orders 1033 and 1036 for details.

*2 Areas of CSU GE Breadth (A-1 through E) are defined in CSU EO 1033. Areas f American Institutions (US-1 through US-3) are set forth in Sections 1A and 1B or CSU EO 405, and at **www.ASSIST.org**.*

3 If a student passes more than one CLEP exam in the same language other than English (e.g., two exams in French), then only one examination may be applied to the baccalaureate. For each exam in a language other than English, a passing score of 50 is considered "Level 1" and earns nine quarter units of baccalaureate credit: the higher score listed for each exam is considered "Level II" and earns additional units of credit and placement in area C2 or GE Breadth, as noted.

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 Student Petition requesting the Department 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 Department Chairperson(s) and Dean.

3. Discuss the request for transfer credit with the Department Chair(s). He/she will sign the petition form indicating whether he/she agrees or disagrees with the request. The request is then forwarded to the Dean of that area.

4. If the Dean agrees with the request that credit be granted, the student is to 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.

Foreign Transcripts

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

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

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

Academic Renewal

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

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

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

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

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

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

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

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

Requirements
1. Two or more years must have passed since the last grade requested for academic renewal was earned.

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

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

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

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")

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.

Registration priority shall be lost at the first registration opportunity after a student is placed on Academic or Lack-of-Progress Probation or any combination thereof for two consecutive terms as defined in Board Policy and Administrative Procedure 4250.

Also beginning with the Fall 2016 semester two consecutive primary terms of probation will lead to loss of the BOG Fee Waiver (Board of Governors Fee Waiver) until the student is no longer on probation.

Scholastic Probation
Students who have attempted 12.0 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 and summer terms. 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 12.0 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 and summer terms, 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 by the deadline date noted on the Reinstatement Petition. Petitions may be acted on by the Director of Admissions and Records or referred to the Admissions, Registration and Petitions Committee for consideration. Decisions made by the Committee are final.

Appealing the Loss of Enrollment Priority or the Loss of the BOG Fee Waiver.
To appeal the loss of enrollment priority or loss of the BOG Fee Waiver students need to complete the **Petition to Appeal Loss of Enrollment Priority and/or Loss of BOG**. As indicated on the petition students must also attach a typed narrative of their situation along with a copy of a current Comprehensive Educational Plan (2+ semesters). Students may need to schedule an appointment with their counselor to acquire the Comprehensive Educational Plan. Once completed the petition along with supporting documents needs to be submitted to Admissions & Records (Building 10). Deadline dates are indicated on the petition. Students can pick up a copy of the petition in Admissions & Records (Building 10) or by downloading a copy off the Admission & Records Website under ***Forms***.

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.

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 **http://www.imperial.edu/students/student-affairs/**

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 judgment 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 **https://www.imperial.edu/students/student-affairs/policies/student-complaint-policy**.

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; and, 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 Affairs & Enrollment Services, 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.

If Complaint is About:	Contact
Classified Staff	Administrative Dean of Human Resources
Faculty	Instructional or Student Services Dean
Department Chair	Instructional Dean
Instructional Dean	Vice President for Academic Services
Administrator	Dean, Vice President or President
Another Student	Dean of Student Affairs & Enrollment Services

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 Affairs & Enrollment Services and Campus Events regarding non-academic matters.

The Vice President for Academic Services, the Vice President for Student Services or the Dean of Student Affairs & Enrollment Services 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 Affairs & Enrollment Services	Bldg. 1000
Director of Disabled Student Programs and Services	Bldg. 2100
Title IX Officer	Bldg. 100

And Online at **https://www.imperial.edu/students/student-affairs/policies/student-complaint-policy**

Step 4 If a student is not satisfied with the decision made by the Vice President for Academic Services or the Vice President for Student Services or the Dean of Student Affairs & Enrollment Services, 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 Affairs & Enrollment Services 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.

If your complaint cannot be resolved at the campus level, you may present your issues to Accrediting Commission for Community and Junior Colleges or to the California Community College Chancellor's Office at:
http://californiacommunitycolleges.cccco.edu/ComplaintsForm.aspx
Distance Education Students

Imperial Valley College is authorized to provide distance education courses in the state of California and Arizona. Distance Education students should follow the above complaint procedures to resolve concerns. If after following the college procedures the issue cannot be resolved internally, Arizona residents can seek additional resolution by contacting the Arizona State Board for Private Postsecondary Education through their website at https://ppse.az.gov or at 1400 Washington Strret, Phoenix, AZ 85007, phone: 602-542-5709, fax: 602-542-1253.

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.

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**.

IVC Parking

Students must purchase and properly display an Imperial Valley College parking permit. Citations are issued by the Imperial Valley College Campus Safety and Parking Control Department. Citations are issued by Parking Control attendants. Motorcycles and motor-bikes 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 makings, 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 Campus Safety & 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.

DEGREES, CERTIFICATES AND TRANSFER PLANNING

General Education

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 a 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.

Associate Degree Graduation Requirements

Associate in Arts (AA) or the Associate in Science (AS) Degrees
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.

Graduation from Imperial Valley College with one of the Associate degrees is based upon the completion of 60 units of lower division college work. 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.

Associate in Arts for transfer (AA-T) or Associate in Science for Transfer (AS-T)
California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.
Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units.

To view the most current list of Imperial Valley College Associate Degrees for Transfer visit the IVC website at **www.imperial.edu.** To find out which CSU campuses accept each degree, please go to **http://www.sb1440.org/counseling.aspx** Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

Certificates of Achievement

Certificates of Achievement 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. Complete a minimum of 6 units in residence;
4. 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).

Additional Associate Degrees and Certificates

A student may earn multiple Associate Degree and Certificates from Imperial Valley College. Each additional degree and Certificate of Achievement will be posted to the student's academic record and the student will receive diplomas for each degree and Certificate of Achievement earned. For additional degrees and certificates any course used to meet the prescribed graduation requirements may count toward more than one degree and certificate. Courses used for one major may be used to meet the prescribed graduation requirements for additional majors. Courses used to meet competency requirements and general education requirements for the first degree may be used to fulfill these requirements for additional degrees, provided the student has maintained "continuous" enrollment. If a break in enrollment occurs, a student must comply with the competency, general education, and major requirements in effect at the time the student resumes attendance or those in subsequent years of the student's enrollment.

Career Technical Education (CTE)

Imperial Valley College offers a wide range of Career Technical Education (CTE) programs preparing students for jobs in high demand occupations in Imperial Valley. CTE programs include transfer options such as the Administration of Justice and Agriculture programs. You can also earn an Associate Degree and/or a Certificate of Achievement in most CTE programs. Consult the IVC catalog and/or a counselor for degree and certificate options.

Programs/Courses are scheduled to provide flexibility to students with day and evening options to meet student demand. Many programs have national industry accreditations or certifications.

Career Technical Education (CTE) Program for High School and Regional Occupational Program (ROP) Students
Imperial Valley College maintains faculty-approved formal course articulation agreements with Imperial Valley high schools and the Imperial Valley ROP (Regional Occupation Program). Courses with articulation agreements follow the California Career Statewide Pathways Templates in the areas of: Administration of Justice Allied Health Programs, Business, Automotive Technology, Building Construction Technology, Child Development, Computer Information Systems, Health Assistant and Welding.

Students who complete an articulated class offered through a partnering high school or ROP program, receive a qualifying grade in their course, and pass the IVC Credit-by-Exam for the subject area, will be eligible to receive college credit for the articulated corresponding Imperial Valley College class posted to their official transcript. **Eligible students will work with the Workforce Development Office at IVC for the awarding of college credit.**

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,

IMPERIAL VALLEY COLLEGE
CERTIFICATES AND ASSOCIATE DEGREES - 2017-2018 ACADEMIC YEAR

Cert/Deg Awarded				FIELDS OF STUDY
A.A.	A.S.	Cert	AA-T or AS-T	
	X	X		Addiction Disorder Studies
	X	X		Administration of Justice
			AS-T	Administration of Justice for Transfer
			AS-T	Agriculture Business for Transfer
		X		Agriculture Business Management
			AS-T	Agriculture Plant Science for Transfer
		X		Agriculture Plant Science
	X	X		Air Conditioning and Refrigeration Technology
		X		Alternative Energy - Solar Technology
			AA-T	Anthropology for Transfer
		X		Apprenticeship - Control Operator
	X	X		Apprenticeship - Electrician
	X	X		Apprenticeship - Generation Mechanic
		X		Apprenticeship - Hydro Operator
		X		Apprenticeship - Instrument Technician
	X	X		Apprenticeship - Meter Technician
	X	X		Apprenticeship - Power Lineman
	X	X		Apprenticeship - Relays Technician
	X	X		Apprenticeship - SCADA/Telecommunications Technician
	X	X		Apprenticeship - Substation-Electrician
		X		Apprenticeship - Telecommunications Technician
	X	X		Automotive Technology
		X		Auto Tech: Brakes, Suspension and Steering Specialization
		X		Auto Tech: Electrical/Electronic and Air Conditioning Specialization
		X		Auto Tech: Engine Performance and Drivability Specialization
		X		Auto Tech: Engine Repair and Machinist Specialization
		X		Auto Tech: Transmission and Power Train Specialization
X				Behavioral Science
			AS-T	Biology for Transfer
	X	X		Building Construction Technology
		X		Build Const Tech - Carpentry Specialization
		X		Build Const Tech - Concrete Masonry Specialization
	X	X		Business Accounting Technician
			AS-T	Business Administration for Transfer
	X	X		Business Administrative Assistant
	X	X		Business Management
	X	X		Business Office Technician
		X		California State University General Education Breadth (CSU GE-B)
	X			Child Development
		X		Child Development - Administration Specialization
		X		Child Development - Associate Teacher
		X		Child Development - Children with Special Needs Specialization
		X		Child Development - Infant/Toddler Specialization
		X		Child Development - School Age Specialization
		X		Cisco CCNA Discovery

Cert/Deg Awarded				FIELDS OF STUDY
A.A.	A.S.	Cert	AA-T or AS-T	
			AA-T	Communication Studies for Transfer
	X			Computer Information Systems
			AS-T	Computer Science for Transfer
	X	X		Correctional Science
		X		Diesel Farm Machinery and Heavy Equipment
	X	X		Digital Design and Production
			AS-T	Early Childhood Education for Transfer
	X	X		Electrical Technology
		X		Electrical Technology: Electrical Wiring Specialization
		X		Electrical Technology: Electronics Specialization
	X	X		Electrical Trades
			AA-T	Elementary Teacher Education for Transfer
	X	X		Emergency Medical Services
	X	X		Energy Efficiency Technology
			AA-T	English for Transfer
	X	X		Fire Technology
		X		Firefighter I
X				French
	X			General Science
			AA-T	History for Transfer
X				Humanities
		X		Intersegmental General Education Transfer Curriculum (IGETC)
			AA-T	Kinesiology for Transfer
			AS-T	Mathematics for Transfer
		X		Medical Assistant
			AA-T	Music for Transfer
	X			Nursing - R.N. (Associate Degree)
	X	X		Nursing - V.N. (Vocational)
	X	X		Pharmacy Technician
	X			Physical Education
	X			Physical Science
			AA-T	Political Science for Transfer
	X			Pre-Engineering
			AA-T	Psychology for Transfer
X				Social Science
			AA-T	Sociology for Transfer
			AA-T	Spanish for Transfer
			AA-T	Studio Arts for Transfer
X				University Studies: Arts and Humanities
X				University Studies: Behavioral and Social Sciences
X				University Studies: Science and Mathematics
	X	X		Water Treatment Systems Technology
		X		Water Treatment Systems Technology: Wastewater Treatment Specialization
	X	X		Welding Technology

ASSOCIATE DEGREE GRADUATION REQUIREMENTS FOR IMPERIAL VALLEY COLLEGE
2017-2018 ACADEMIC YEAR

I. ASSOCIATE DEGREE (Associate in Arts (AA) or Associate in Science (AS) Only) - Select a Degree/Major (See IVC Catalog or a Counselor)

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, G.P.A., FINANCIAL OBLIGATIONS, AND RESIDENCE REQUIREMENTS

A. Sixty (60) degree-applicable units
B. G.P.A. of 2.0 or better for all degree-applicable college work
C. Settlement of all financial obligations to the college
D. Twelve (12) degree-applicable units in residence at IVC

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)
C. Physical Education 100 (2.0 Units) and One (1) Physical Education Activity Course (1.0 Unit)

IV. STATE COMPETENCY REQUIREMENTS

A. Math Competency: Transfer level placement or satisfactory completion of MATH 091 or higher level course with a grade of "C" or better.
B. Reading Competency: Transfer level placement or ENGL 110 with a grade of "C" or better.

V. GENERAL EDUCATION REQUIREMENTS

A minimum of eighteen (18.0) semester units is required. To include a minimum of six (6.0) semester units in Area A (one course from part 1 and one course from part 2); a minimum of three (3.0) semester units from Area B; a minimum of three (3.0) semester units from Area C; and, a minimum of three (3.0) semester units in Area D. In Area E, three (3.0) semester units are to be selected from any of the four areas (A, B, C or D) as determined by student's option.

A. LANGUAGE AND RATIONALITY

1. English Composition (3.0-4.0 semester/4.0 quarter units required with a grade of "C" or better)

			Units
ENGL	110	Composition and Reading	4.0

2. Communication & Analytical Thinking
Units: 3.0 semester/4.0 quarter units required.

			Units
BUS	260	Business Communications	3.0
CIS	101	Introduction to Information Systems	3.0
CIS	202	Programming in C++	3.0
CIS	212	Web Development Programming	3.0
CIS	214	PHP and MySQL	3.0
COMM	100	Oral Communication	3.0
* COMM	125	Interpersonal Communication	3.0
COMM	180	Argumentation & Debate	3.0
CS	170	Introduction to Unix/Linux	3.0
CS	221	Intro to Obj-Orient Prog in Java	3.0
CS	231	Introduction to Data Structures	3.0
CS	281	Assembly Lang and Machine Org	3.0
ENGL	201	Advanced Composition	3.0
ENGL	250	Creative Writing	3.0
ENGL	270	Introduction to Linguistics	3.0
JRN	100	Introduction to Journalism	3.0
JRN	101	Multimedia News Writing & Reporting	3.0
MATH	110	Number Systems in Elementary Math	3.0
MATH	112	Geometry in Elementary Mathematics	3.0
MATH	119	Elementary Statistics	4.0
MATH	122	Finite Mathematics	4.0
MATH	140	Trigonometry	3.0
MATH	150	College Algebra	4.0
MATH	170	Introductory Calculus w/Applications	4.0
MATH	190	Pre-Calculus	5.0
MATH	192	Analytic Geometry and Calculus I	4.0
MATH	194	Analytic Geometry and Calculus II	4.0
MATH	210	Multivariable Calculus	4.0
MATH	220	Elementary Differential Equations	3.0
MATH	230	Intro to Linear Equations w/apps	3.0
MATH	240	Discrete Mathematics	3.0
PSY	214	Statistical Methods in Behavioral Sci	4.0
PHIL	106	Logic	3.0
READ	111	Read IV: Analytical & Critical Reading	3.0

B. NATURAL SCIENCE

Units: 3.0 semester/4.0 quarter units required.

			Units
AG/ENVS	110	Environmental Science	3.0
AG	120	Soil Science	3.0
AG	140	Principles of Plant Science	4.0
AG	170	Entomology	3.0
ANTH	100	Physical Anthropology	3.0
ASTR	100	Principles of Astronomy	3.0
BIOL	090	Anat & Physio for Hlth Occu	3.0
BIOL	100	Principles of Biological Sci	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	4.0
BIOL	200	Biology Human Anat & Physio I	4.0
BIOL	202	Human Anat & Physio II	4.0
BIOL	204	Human Anatomy	4.0
BIOL	206	Human Physiology	4.0
BIOL	220	General Microbiology	5.0
CHEM	100	Intro to Chemistry	4.0
CHEM	160	Intro to Gen, Organic & BioChem	5.0
CHEM	200	Gen Inorganic Chemistry I	5.0
CHEM	202	General Inorganic Chemistry II	5.0
CHEM	204	Organic Chemistry	5.0
CHEM	206	Organic Chemistry II	5.0
ENVS/AG	110	Environmental Science	3.0
GEOG	100	Physical Geography	3.0
GEOG	111	Physical Geography Lab	1.0
GEOL	100	General Geology	4.0
GEOL	110	Earth & Space Science	3.0
GEOL	130	Climate and Weather	3.0
PHSC	110	Physical Science	3.0
PHYS	200	General Physics I	4.0
PHYS	202	General Physics II	4.0
PHYS	204	General Physics III	4.0
PSY	200	Biological Psychology	3.0

Continued on the Back

ASSOCIATE DEGREE GRADUATION REQUIREMENTS FOR IMPERIAL VALLEY COLLEGE
2017-2018 ACADEMIC YEAR

C. HUMANITIES

Units: 3.0 semester/4.0 quarter units required.

	AMSL	100	American Sign Language 1	4.0
	AMSL	102	American Sign Language 2	4.0
	AMSL	200	American Sign Language 3	3.0
	ARAB	100	Elementary Arabic	5.0
	ART	100	History of Art I	3.0
	ART	102	History of Art II	3.0
	ART	104	History & Apprec of Mod Art	3.0
	ART	106	Women Artists	3.0
	ENGL	102	Intro to Literature	3.0
	ENGL	220	Survey of American Lit I	3.0
	ENGL	221	Survey of American Lit II	3.0
	ENGL	222	Survey of World Literature	3.0
	ENGL	223	Survey of World Literature	3.0
	ENGL	224	Survey of British Literature I	3.0
	ENGL	225	Survey of British Literature II	3.0
	ENGL	270	Introduction to Linguistics	3.0
	ENGL/HUM	226	Introduction to Mythology	3.0
	FILM	130	Introduction to Film	3.0
	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
*	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/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 East from 600	3.0
*	HIST	220	Women in American History	3.0
*	HIST	222	History of California	3.0
	HUM	100	Intro to the Humanities	3.0
	HUM/ENGL	226	Introduction to Mythology	3.0
+	HUM/SPAN	262	Intro to Chicano/a Studies	3.0
*	LAS/HIST	130	Early Latin America	3.0
*	LAS/HIST	131	Modern Latin America	3.0
*	LAS/HIST	132	History of Mexico	3.0
	MUS	100	Intro to Music Foundations	3.0
	MUS	102	Intro to Music Lit & Listening	3.0
	MUS	120	Beginning Harmony I	3.0
	MUS	122	Beginning Harmony II	3.0
	MUS	220	Intermediate Harmony I	3.0
	MUS	222	Intermediate Harmony II Intro	3.0
	PHIL	100	to Philosophy I	3.0
	PHIL	102	Intro to Philosophy II	3.0
	PHIL/RELS	104	Ethics	3.0
	RELS	100	Religions of the Modern World	3.0
	RELS/PHIL	104	Ethics	3.0
	SPAN	100	Elementary Spanish I	5.0
	SPAN	110	Elementary Spanish II	5.0
	SPAN	113	Beg Conv Span & Culture I	2.5
	SPAN	200	Intermediate Spanish I	5.0
	SPAN	210	Intermediate Spanish II	5.0
	SPAN	220	Bilingual Spanish I	5.0
	SPAN	221	Bilingual Spanish II	5.0
	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
	THEA	100	Intro to Theatre	3.0

D. SOCIAL AND BEHAVIORAL SCIENCES

Units: 3.0 semester/4.0 quarter units required.

	AJ	100	Intro to the Admin of Justice Prin	3.0
	AJ	106	& Proc of the Justice Sys Food &	3.0
	AG	160	Fiber in a Chng World Intro to	3.0
	ADS/PSY	120	Counseling	3.0
+	ADS/SOC	150	Sociology of Minority Groups	3.0
+	AIS/ANTH	106	Indians of North America Indians	3.0
+	AIS/ANTH	108	of the Southwest Cultural	3.0
	ANTH	102	Anthropology	3.0
+	ANTH/AIS	106	Indians of North America Indians	3.0
+	ANTH/AIS	108	of the Southwest Introduction to	3.0
	ANTH	120	Archaeology Child, Family &	3.0
	CDEV	103	Community Child Growth &	3.0
	CDEV/PSY	104	Development	3.0
*	COMM	125	Interpersonal Communication	3.0
	COMM	150	Intercultural Communication	3.0
	ECON	101	Intro to Micro Economics	3.0
	ECON	102	Intro to Macro Economics	3.0
	GEOG	102	Cultural Geography	3.0
	GEOG	108	World Regional Geography	3.0
*	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	US History: Prehist to Reconst	3.0
	HIST	121	US History: Reconst to Present	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 East from 600	3.0
	HIST	220	Women in American History	3.0
	HIST	222	History of California	3.0
	HIST	225	Mexican American History	3.0
*	LAS/HIST	130	Early Latin America	3.0
*	LAS/HIST	131	Modern Latin America	3.0
*	LAS/HIST	132	History of Mexico	3.0
	POLS	100	Intro to Political Science	3.0
	POLS	102	American Government & Politics	3.0
	POLS	104	Comparative Politics	3.0
	POLS	106	Intro to International Relations	3.0
	PSY	101	Intro to Psychology	3.0
	PSY/CDEV	104	Child Growth & Development	3.0
	PSY/ADS	120	Intro to Counseling	3.0
	PSY	142	Psychology of Adjustment	3.0
	PSY	144	The Psych of Interpersonal Rel	3.0
	PSY	146	Psychology of Human Sexuality	3.0
	PSY	202	Learning	3.0
	PSY	204	Devel Psych: Concept to Death	3.0
	PSY/SOC	206	Social Psychology	3.0
	PSY	208	Abnormal Psychology	3.0
	SOC	101	Introductory Sociology	3.0
	SOC	102	Contemporary Social Problems	3.0
	SOC	110	Marriage & Family	3.0
+	SOC/ADS	150	Sociology of Minority Groups	3.0
	SOC/PSY	206	Social Psychology	3.0

E. ELECTIVE

Units: 3.0 semester/4.0 quarter units required.

In Area E, three (3) units are to be selected from among the

Transfer Planning

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 the following:
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** which is the official California statewide database listing a selection of campus-approved transfer agreements, general education requirements, and information on UC and CSU transferable courses and major preparation. Students are advised to contact an Imperial Valley College counselor for more information, and for details regarding other transfer agreements and options not available on ASSIST for your transfer college choice.

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

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

III. Catalogs and information on how to apply for admission to the California Private/Independent Colleges and Universities, Out-of-State Colleges and Universities, 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.

Transfer Preparation

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC counselor to develop a student education plan (SEP) before beginning their program. More information is available at www.imperial.edu/student/transfer-center.

Transfer Resources:
www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine
www.calstate.edu – CSU System Information
www.universityofcalifornia.edu/admissions – UC System Information
www.aiccu.edu – California Independent Colleges and Universities, Association of
http://wiche.edu/wue – Western Undergraduate Exchange Programs (institution and major search engine)

Western Undergraduate Exchange (WUE)

WUE is the Western Undergraduate Exchange, a program coordinated by the Western Interstate Commission for Higher Education (WICHE). Through WUE, students in Western states may enroll in participating four-year public college programs at a reduced tuition level: up to 150 percent of the institution's regular resident tuition. In all cases, WUE tuition is considerably less than nonresident tuition.

Programs Available: Some institutions have opened their entire curriculum on a space-available or first-come, first served basis. Others offer only designated programs at the discounted WUE rate.

Check out the search feature on the WUE website:
http://wiche.edu/wue/students#programs

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* ***www.calsate.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. Be in good standing at the last college or university attended (i.e., you are eligible to re-enroll).
3. Complete 30 units of general education coursework prior to transfer. The thirty semester units must include general education requirements in English composition, oral communications, critical thinking and college level mathematics with a grade of C or higher.

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.

Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T) for California State University (CSU)

Students transferring to a CSU campus with an AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree. Imperial Valley College currently offers several AA-T/AS-T degrees. Students are encouraged to meet with a counselor to review options and to visit http://californiacommunitycolleges.cccco.edu/Students/AssociateDegreeforTransfer.aspx for more information.

AA-T/AS-T Minimum Degree Requirements

Completion of the following are required for all AA-T/AS-T:

1. Minimum of 60 CSU-transferable semester units.
2. Minimum grade point average (GPA) of at least a 2.0 in all CSU-transferable coursework.
3. Completion of a minimum of 18 semester units in an AA-T/AS-T major. All courses in the major must be completed with a grade of C or better.
4. Complete certification of the California State University General Education-Breadth Pattern; OR the Intersegmental General Education Transfer Curriculum pattern.

CSU GE-B

IMPERIAL VALLEY COLLEGE 2017-2018 ACADEMIC YEAR
CALIFORNIA STATE UNIVERSITY (CSU) GENERAL EDUCATION BREADTH REQUIREMENTS

STUDENT'S NAME: _____ _____ _____

(Please Print): LAST FIRST MIDDLE Student Campus ID# Date of Birth

DIRECTIONS: Identify **courses** taken at IVC; list courses taken at other colleges; and/or indicate name of test and score (AP/IB).	Course	Trm/Grd
AREA A - ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING (9 Semester or 12-15 quarter units)		
AREA A1: Oral Communication - One (1) course (3 semester or 4-5 quarter units) **Grade of "C-" Required for Admission & Certification.** COMM 100 Other College (Course/Institution): _____ ***No AP or IB scores accepted for this area.***		
AREA A2: Written Communication - One (1) course (3 semester or 4-5 quarter units) **Grade of "C-" Required for Admission & Certification.** ENGL 110 Other College (Course/Institution): _____ AdvPlacement/IB: _____		
AREA A3: Critical Thinking - Select one (1) course (3 semester or 4-5 quarter units) **Grade of "C-" Required for Admission & Certification.** READ 111, ENGL 201, PHIL 106, COMM 180 Other College (Course/Institution): _____ ***No AP or IB scores accepted for this area.***		
AREA B - SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING (Minimum: 9 semester or 12-15 quarter units with at least one lab course marked with a "L")		
AREA B1: Physical Science - One course required: AG/ENVS 110, AG 120 (L), ASTR 100, CHEM 100(L), CHEM 160 (L), CHEM 200(L), CHEM 202(L), CHEM 204(L), CHEM 206(L), ENVS/AG 110, GEOG 100, GEOL 100 (L), GEOL 110, GEOL 130, PHSC 110, PHYS 200(L), PHYS 202(L), PHYS 204(L) Other College (Course/Institution): _____ AdvPlacement/IB: _____		
AREA B2 - Life Science - One course required: AG 140 (L), AG 170(L), ANTH 100, BIOL 100(L), BIOL 120(L), BIOL 122(L), BIOL 140, BIOL 150, BIOL 180(L), BIOL 182(L), BIOL 200(L), BIOL 202(L), BIOL 204(L), BIOL 206(L), BIOL 220(L), PSY 200 Other College (Course/Institution): _____ AdvPlacement/IB: _____		
AREA B3 - Laboratory Activity (See Area B1 and B2 ABOVE for course marked with a "L") - One course required: GEOG 111 Other College (Course/Institution): _____ AdvPlacement/IB: _____		
AREA B4 - MATHEMATICS/QUANTITATIVE REASONING - One (1) course (Minimum: 3 semester or 4-5 quarter units) MATH 110, MATH 112, MATH 119, MATH 122, MATH 140, MATH 150, MATH 170, MATH 190, MATH 192, MATH 194, MATH 210, MATH 220, MATH 230, MATH 240, PSY 214 **Grade of "C-" Required for Admission & Certification.** Other College (Course/Institution): _____ AdvPlacement/IB: _____		
AREA C - ARTS AND HUMANITIES - Nine (9) semester or 12-15 quarter units **At least THREE (3) courses, with at least one course from the Arts and one course from the Humanities.**		
AREA C1 - ARTS - One (1) course (3 semester or 4-5 quarter units) ART 100, ART 102, ART 104, ART 106, FILM 130, MUS 100, MUS 102, MUS 120, MUS 122, MUS 220, MUS 222, THEA 100 Other College (Course/Institution): _____ AdvPlacement/IB: _____		
AREA C2 - HUMANITIES - One (1) course (3 semester or 4-5 quarter units) AMSL 100, AMSL 102, AMSL 200, ARAB 100, ENGL 102, ENGL 220, ENGL 221, ENGL 222, ENGL 223, ENGL 224, ENGL 225, ENGL/HUM 226, ENGL 270, FREN 100, FREN 110, FREN 201, FREN 211, *HIST 100, *HIST 101, *HIST 110, *HIST 111, *HIST 120, *HIST 121, *HIST/LAS 130, *HIST/LAS 131, *HIST 140, *HIST 150, *HIST 160, *HIST 220, *HIST 222, HUM 100, HUM/ENGL 226, HUM/SPAN 262, *LAS/HIST 130, *LAS/HIST 131, PHIL 100, PHIL 102, PHIL/RELS 104, RELS 100, RELS/PHIL 104, SPAN 100, SPAN 110, SPAN 200, SPAN 210, SPAN 220, SPAN 221, SPAN 222, SPAN 225, SPAN/HUM 262 Other College (Course/Institution): _____ AdvPlacement/IB: _____		
AREA D - SOCIAL SCIENCE (AREAS D0 thru D9) **Nine (9) semester or 12-15 quarter units. At least three (3) courses from at least two (2) academic disciplines.**		
AMERICAN INSTITUTIONS (AI) - 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 Other College: _____ AP/IB: _____ b. History: *HIST 120 OR *HIST 121 Other College: _____ AP/IB: _____		
Select one additional course from (minimum 3.0 units): AJ 100, AJ 106, AG 160, ADS/SOC 150, AIS 106/ANTH 106, AIS/ANTH 108, ANTH 102, ANTH/AIS 106, ANTH/AIS 108, ANTH 120, CDEV 103, *CDEV/PSY 104, COMM 125, COMM 150, ECON 101, ECON 102, GEOG 102, GEOG 108, *HIST 100, *HIST 101, *HIST 110, *HIST 111, *HIST 120, *HIST 121, *HIST/LAS 130, *HIST/LAS 131, HIST/LAS 132, *HIST 140, *HIST 150, *HIST 160,*HIST 220, *HIST 222, HIST/LAS 225, *LAS 130/HIST 130, *LAS /HIST 131, LAS/HIST 132, LAS/HIST 225, POLS 100, *POLS 102, POLS 104, POLS 106, PSY 101, *PSY/CDEV 104, PSY 142, PSY 202, PSY/SOC 206, PSY 208, SOC 101, SOC 102, SOC/ADS 150, SOC/PSY 206 Other College (Course/Institution): _____ AdvPlacement/IB: _____		
AREA E - LIFELONG UNDERSTANDING AND SELF-DEVELOPMENT - One (1) course (3 semester/4-5 quarter units)		
CDEV 101, *CDEV/PSY 104, COUN 100, COUN 120, HE 102, *PSY/CDEV 104, PSY 144, PSY 146, PSY 204, SOC 110 Other College (Course/Institution): _____ AdvPlacement/IB: _____ Military Service Credit Clears Area E: **Requires Copy of DD-214**		

Pass Along(s) - College Name and Symbol (*, %, +, #): _____

College Counselor: _____ **Date:** _____

* Courses designated with an asterisk may be counted in one area only. **Update(s) - Date & Counselor Initials:** _____

_____

GENERAL EDUCATION PATTERN FOR THE CALIFORNIA STATE UNIVERSITY (CSU) SYSTEM

(Does NOT apply to any of the campuses of the University of California [UC] System)

Executive Order 595 **EFFECTIVE: For New Students, Fall 1996**

To obtain a bachelor's degree from any of the California State University campuses, students are required to complete a minimum of 48 semester units in general education courses in the following areas: Area A - nine (9) units; Area B - twelve (12) units; Area C - twelve (12) units; Area D - twelve (12) units; and, Area E - three (3) units. Up to 39 lower-division units may be completed at and certified by California Community Colleges. After the student has transferred, the CSU campus will then specify a minimum of 9 more upper division units to be taken primarily in Areas B, C and D.

Students admitted to a CSU campus with full certification may not be held to any additional lower-division general education requirements; students admitted to a CSU campus with Subject-area certification may not be held to any additional lower-division general education coursework in the subject areas certified. Neither full certification nor subject area certification exempts students from unmet lower-division graduation requirements that may exist outside of the general education program of the campus awarding the degree.

General Education Certification:

- Official transcripts from all colleges and universities attended must be on file and will be reviewed for inclusion in the certification process. Acceptable scores on the Advanced Placement (AP) exams and the College Level Examination Program (CLEP) may count towards satisfying CSU GE subject areas.
- Courses completed at a foreign college or university cannot be used to satisfy requirements for certification.
- Catalog rights do not apply to the CSU GEB pattern.
- Certification of GE courses is requested when the CSU GE pattern is complete and the final transcript for the university is requested.
- Completion of the CSU-GEB pattern does not guarantee admission to any CSU campus or program.
- The CSU GE pattern is accepted by some California private, independent and out of state colleges or universities in satisfying lower division general education requirements.

The 23 Outstanding Campuses of the CSU

The University of California

Minimum Transfer Admission Requirements

Transfer students will be eligible for admission if they meet the following requirements:

1. Complete 60 semester (90 quarter) units of transferable college credit with a GPA of at least 2.4 *no more than 14 semester (21 quarter) units may be taken "P/NP" (Pass/No Pass).
2. Complete the following requirements, earning a grade of "C" or better in each course:
   - Two transferable college courses (3 semester or 4-5 quarter units each) in English composition
   - One transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitive reasoning
   - Four transferable college courses (3 semester or 4-5 quarter units each) chosen from at least two of the following subject areas: arts and humanities, social and behavioral sciences, and Physical and biological sciences.

Note: Students who complete 60 transferable units that include the Intersegmental General Education Transfer Curriculum (IGETC) will meet the minimum admission requirements described above.

*Specific admission criteria vary amongst the UC campuses. Visit the Transfer Center or review information available online at **www.universityof california.edu/admissions**.

The University of California Application Filing Periods

The following information is subject to change.

Fall Semester/Quarter:	November1-November 30 of preceding year
Winter Quarter:	July 1-July 31 of preceding year
Spring Quarter:	October 1-October 31 of preceding year

The UC application is availble at:
www.universityofcalifornia.edu/apply

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-divisionGE 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. 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.

IMPERIAL VALLEY COLLEGE 2017-2018 ACADEMIC YEAR
INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

STUDENT'S NAME: _____ _____ _____
(Please Print): LAST FIRST MIDDLE Student Campus ID# Date of Birth

DIRECTIONS: Identify courses taken at IVC; list courses taken at other colleges; and/or indicate name of test and score (AP). All courses must be completed with grades of "C" or better. A "C-" is not acceptable.

	Course	Trm/Grd
AREA 1 - ENGLISH COMMUNICATION **CSU - Three courses required: one course from Group 1A, one course from Group 1B, and one course from Group 1C.** **UC - Two courses required: one course from Group 1A and one course from Group 1B.** **NAU - Three courses required: one course from Group 1A, one course from Group 1B, and one course from Group 1C.**		
GROUP 1A: English Composition - One (1) course (3 semester or 4-5 quarter units) ENGL 110 Other College (Course/Institution): _____ Advanced Placement: _____		
GROUP 1B: Critical Thinking-English Composition - One (1) course (3 semester or 4-5 quarter units) ENGL 201 Other College (Course/Institution): _____ ***No AP or IB scores accepted for this area.***		
GROUP 1C: Oral Communication - One (1) course (3 semester or 4-5 quarter units) COMM 100 COMM 180 Other College: _____ ***No AP or IB scores accepted for this area.***		
AREA 2 - MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING - One (1) course (3 semester or 4-5 quarter units) +MATH 119, MATH 122, +MATH 150, +MATH 170, +MATH 190, +MATH 192, MATH 194, MATH 210, MATH 220, MATH 230, MATH 240, +PSY 214 Other College (Course/Institution): _____ Adv Placement/IB: _____		
AREA 3 - ARTS AND HUMANITIES - Nine (9) semester or 12-15 quarter units **At least THREE (3) courses, with at least one course from the Arts and one course from the Humanities.**		
GROUP 3A - ARTS - One (1) course (3 semester or 4-5 quarter units) ART 100, ART 102, ART 104, ART 106, +MUS 100, MUS 102, MUS 120, MUS 122, MUS 220, MUS 222, THEA 100 Other College (Course/Institution): _____ Adv Placement/IB: _____	Arts	
GROUP 3B - HUMANITIES - One (1) course (3 semester or 4-5 quarter units) AMSL 102, AMSL 200, ENGL 102, ENGL 220, ENGL 221, ENGL 222, ENGL 223, ENGL 224, ENGL 225, ENGL/HUM 226, ENGL 270, FREN 110, FREN 201, FREN 211, *HIST 100, *HIST 101, *HIST 110, *HIST 111, *HIST/LAS 130, *HIST/LAS 131, *HIST/LAS 132, *HIST 140, *HIST 150, *HIST 160, *HIST 222, HUM 100, HUM/ENGL 226, HUM/SPAN 262, *LAS/HIST 130, *LAS/HIST 131, LAS/HIST 132, PHIL 100, PHIL 102, PHIL/RELS 104, RELS 100, RELS/PHIL 104, SPAN 110, +SPAN 200, +SPAN 210, +SPAN 220, +SPAN 221, SPAN 225, SPAN/HUM 262 Other College (Course/Institution): _____ Adv Placement/IB: _____	Hum A/H	
AREA 4 - SOCIAL AND BEHAVIORAL SCIENCES - Nine (9) semester or 12-15 quarter units. (Groups 4A thru 4J) **At least THREE (3) courses from at least two (2) academic disciplines.**		
ADS/SOC 150, AIS/ANTH 106, AIS/ANTH 108, ANTH 102, ANTH/AIS 106, ANTH/AIS 108, ANTH 120, +CDEV/PSY 104, COMM 125, COMM 150, ECON 101, ECON 102, *GEOG 100, *GEOG 102, GEOG 108, GEOG 140, *HIST 100, *HIST 101, *HIST 110, *HIST 111, *HIST 120, *HIST 121, *HIST/LAS 130, *HIST/LAS 131, *HIST/LAS 132, *HIST 140, *HIST 150, HIST 160, HIST 220, *HIST 222, *HIST/LAS 225, LAS/HIST 130, *LAS/HIST 131, *LAS/HIST 132, LAS/HIST 225, POLS 100, POLS 102, POLS 104, POLS 106, PSY 101, +PSY/CDEV 104, PSY 146, *PSY 200, PSY 202, +PSY 204, PSY/SOC 206, PSY 208, SOC 101, SOC 102, SOC/ADS 150, SOC/PSY 206 Other College (Course/Institution): _____ Adv Placement/IB: _____		
AREA 5 - PHYSICAL AND BIOLOGICAL SCIENCES (Minimum: 7-9 semester or 9-12 quarter units with at least one lab course marked with a "L")		
GROUP 5A: Physical Science - One course required: AG/ENVS 110, AG 120 (L), ASTR 100, +CHEM 100(L), CHEM 160 (L), CHEM 200(L), CHEM 202(L), CHEM 204(L), CHEM 206(L), ENVS/AG 110, *GEOG 100, GEOL 100 (L), +GEOL 110, GEOL 130, +PHSC 110, PHYS 200(L), PHYS 202(L), PHYS 204(L) Other College (Course/Institution): _____ Adv Placement/IB: _____		
GROUP 5B - Biological Science - Once course required: AG 140 (L), AG 170(L), ANTH 100, +BIOL 100(L), BIOL 120(L), BIOL 122(L), BIOL 140, BIOL 150, BIOL 180(L), BIOL 182(L), +BIOL 200(L), +BIOL 202(L), +BIOL 204(L), +BIOL 206(L), BIOL 220(L), *PSY 200 Other College (Course/Institution): _____ Adv Placement/IB: _____		
AREA 6 - LANGUAGES 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 language other than English (see a counselor for specific scores) 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, FREN 100, SPAN 100 Satisfied by: _____ *NOTE: Validation by a more advanced course (course can also count in AREA 3).* Adv Placement/IB: _____		
American Institutions - CSU Graduation Requirement (NOT part of IGETC; may be completed prior to transfer.) **POLS 102 and HIST 120 or HIST 121**		

College Nominated: College Name and Symbol (*, %, +, #): _____

College Counselor: _____ **Date:** _____

* Courses designated with an asterisk may be counted in one area only. **Update(s) - Date & Counselor Initials:** _____

\+ Indicates that transfer credit may be limited by either UC or CSU or both. REFERENCE: www.assist.org _____

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

Completion of ALL of the requirements in the Intersegmental General Education Transfer Curriculum (IGETC) will permit a student to transfer from a community college to a campus in either the California State University (CSU) or University of California (UC) system without the need, after transfer, to take additional lower-division general education courses to satisfy campus general education requirements. Approved for Northern Arizona University (NAU) Liberal Studies (General Education) Requirements (37 Units to include Speech Course) - May 5, 2003.

NOTE:

- Revelle and Eleanor Roosevelt Colleges at UCSD will NOT accept IGETC alone (Revelle has IGETC+). IGETC is also not recommended for some high unit majors. See a Counselor!
- Certification of IGETC is requested when the IGETC pattern is complete and the final university transcript is requested.
- Completion of the IGETC pattern does not guarantee university admission.
- The IGETC pattern is accepted by some California private, independent and out of state Colleges and Universities in satisfying lower division general education requirements.

University of California's 10 Campuses

The 23 Outstanding Campuses of the CSU

Cross Enrollment Program at a California State University or University of California Institution

About The Program:
Undergraduate students enrolled in the California Community Colleges, California State University, or the University of California may enroll at one of the other two institutions via the Cross Enrollment Program without formal admission and without payment of additional State University fees.

Program Qualifications:
Undergraduate students must provide verification from their home campus, via the Cross Enrollment application, that they have satisfied all program qualifications:

- California resident.
- Completed at least one regular term (12.0 units) at the home campus as a matriculated student.
- Enrolled in a minimum of six units at the home campus for the current term.
- Earned a minimum grade point average of 2.0 (C average) in all college work completed.
- Paid appropriate tuition and fees at home campus for the current term.
- Completed appropriate academic preparation for the cross enrollment course you intend to as determined by the host campus.

Program Limitations:

- Enrollment is limited to one baccalaureate course per academic term on a space available basis.
- Program is open to undergraduate students only.
- Cross enrollment classes may not be audited.
- Students may not cross-enroll in a lower division course if the course has enrollment restrictions, such as by major code.
- Students may not cross-enroll in an upper division course if the department is impacted.
- Students may not cross-enroll in a graduate level course.

Enrollment Conditions:

1. Approval for cross enrollment is valid for only the one term specified and subject to space availability, deadlines, registration procedures, and priorities of the host campus. You must reapply for each term you wish to cross enroll.
2. Students are subject to all administrative procedures of the host campus. Students who wish to drop a course must follow the drop procedure of the campus.
3. Students will not be charged additional course enrollment fees. However, there is a non-refundable administration fee each term.
4. Students will have to pay any additional fees required of other students (lab, materials, breakage, computer, transcripts, etc.).
5. Academic advising is available only at the home campus. Students are encouraged to obtain advising from a home campus adviser to ensure the course to be taken at the host campus will meet home campus requirements.
6. Evidence of completion of course prerequisites may be required at time of enrollment (personal transcript copy or grade reports).
7. Records of credit earned through cross enrollment will be maintained by the host campus. Students are responsible for ordering their transcript be sent to their home campus (a fee may be required).
8. Because of overlapping academic calendars, cross enrollment is possible only in certain combinations.
9. Health services on the host campus are limited to treatment of emergencies only.
10. Students are subject to all administrative procedures of the host campus.
11. Other conditions may apply depending upon the host campus. Please refer to the host institutions website for additional information.
12. San Diego State University, Imperial Valley Campus, is Imperial Valley College's closest CSU participant. SDSU Cross Enrollment Program details, website and application form can be found at : **http://arweb.sdsu.edu/es/registrar/CrossEnrollment.pdf**

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

MAJOR & CERTIFICATE INFORMATION SHEETS - TABLE OF CONTENTS

Addiction Disorder Studies 63
Administration of Justice 65
Administration of Justice (For Transfer) 67
Agriculture Business (For Transfer) 69
Agriculture Business Management 71
Agriculture Plant Science (For Transfer) 73
Agriculture Science 75
Air Conditioning and Refrigeration Technology 77
Alternative Energy-Solar Technology 79
Anthropology (For Transfer) 81
Automotive Technology 83
Brakes, Suspension, and Steering (Auto Technology) 85
Electrical/Electronic and Air Conditioning (Auto Technology) 87
Engine Performance and Drivability (Auto Technology) 89
Engine Repair and Machinist (Auto Technology) 91
Transmission and Power Train (Auto Technology) 93
Behavioral Science 95
Biology (For Transfer) 97
Building Construction Technology 99
Business Accounting Technician 103
Business Administration (For Transfer) 105
Business Administrative Assistant 107
Business Management 109
Business Office Technician 111
California State University General Education Breadth (CSU GE-B) 113
Child Development 115
CISCO CCNA Discovery 119
Communication Studies (For Transfer) 121
Computer Information Systems 123
Computer Science (For Transfer) 125
Correctional Science 127
Diesel Farm Machinery and Heavy Equipment 129
Digital Design and Production 131
Early Childhood Education (For Transfer) 133
Electrical Technology 135
Electrical Trades 139
Elementary Teacher Education (For Transfer) 141
Emergency Medical Services 143
Energy Efficiency Technology 145
English (For Transfer) 147
Fire Technology 149
Firefighter I 153
French 155
General Science 157
History (For Transfer) 159
Humanities 163
Intersegmental General Education Transfer Curriculum (IGETC) 165
Kinesiology (For Transfer) 167
Mathematics (For Transfer) 169
Medical Assistant 171
Music (For Transfer) 173
Nursing 175
Pharmacy Technician 179
Physical Education 181
Physical Science 183
Political Science (For Transfer) 185
Pre-Engineering 187
Psychology (For Transfer) 189
Social Science 191
Sociology (For Transfer) 193
Spanish (For Transfer) 195
Studio Arts (For Transfer) 197
University Studies 199
Water Treatment Systems Technology 203
Welding Technology 205

ADDICTION DISORDER STUDIES

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

The Addiction Disorder Studies program is designed to prepare students to serve as professionals in the growing career field of chemical and behavioral addiction counseling. 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.

PROGRAM LEARNING OUTCOMES

1. Demonstrate understanding of the physical and psychological disease of addiction.
2. Demonstrate an understanding of counseling theory used in addiction counseling.
3. Demonstrate critical thinking and skills to intervene with an addict and the codependent family.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Alcohol/Drug Studies Advisor
- Drug Abuse Counselor
- Health Education Instructor
- Community College Instructor
- Alcohol/Drug Studies Technician
- Outpatient Program Staff Member
- Marriage and Family Therapists
- Mental Health Counselor
- Psychologists
- Registered Nurses
- Social Workers
- Recovery Center Staff Member/Director
- Substance Abuse and Behavioral Counselors
- Teacher – All Levels
- Occupational Therapists
- Physicians/Surgeons
- Rehabilitation Counselors

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine

www.CSUMentor.edu – CSU System Information

www.universityofcalifornia.edu/admissions/index.html - UC System Information

www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: **www.imperial.edu/students/financial-aid-and-scholarships/**

ADDICTION DISORDER STUDIES

ASSOCIATE DEGREE PROGRAM

ADDICTION DISORDER STUDIES MAJOR – A.S. DEGREE
Thirty-six (36.0) units required for the major.

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

I.	**Required for the major (30.0 units)**			
	ADS	101	Alcoholism: Intervention, Treatment, and Recovery	3.0
	ADS	110	Physiological Effects of Alcohol and Drugs	3.0
	ADS/PSY	120	Introduction to Counseling	3.0
	ADS/PSY	130	Group Leadership and Group Process	3.0
	ADS	200	Family counseling Approaches to Alcohol and Drug Abuse	3.0
	ADS/PSY	210	Crisis Intervention and Referral Techniques	3.0
	ADS/PSY	220	Practicum	3.0
	ADS/PSY	221	Practicum	3.0
	ADS	240	Ethics and Legal Standards in Alcohol Counseling	3.0
	ADS	251	Dual Diagnosis	3.0
II.	**Minimum of six (6.0) units selected from:**			**6.0**
	ADS/SOC	150	Sociology of Minority Groups (3.0)	
	ADS	176	Sex and Gambling Addiction (1.0)	
	ADS	177	Anger Management (1.0)	
	ADS	178	Life Skills (1.0)	
	ADS	230	Alcohol and Drug Prevention and Education (3.0)	
	PSY	101	Introduction to Psychology (3.0)	
	PSY	144	The Psychology of Interpersonal Relationships (3.0)	
	PSY	204	Developmental Psychology: Conception 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)	
Total Major Units				**36.0**

CERTIFICATE PROGRAM

ADDICTION DISORDER STUDIES CERTIFICATE
Thirty-six (36.0) units required for the certificate.

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

I.	**Required for the major (30.0 units)**			
	ADS	101	Alcoholism: Intervention, Treatment, and Recovery	3.0
	ADS	110	Physiological Effects of Alcohol and Drugs	3.0
	ADS/PSY	120	Introduction to Counseling	3.0
	ADS/PSY	130	Group Leadership and Group Process	3.0
	ADS	200	Family counseling Approaches to Alcohol and Drug Abuse	3.0
	ADS/PSY	210	Crisis Intervention and Referral Techniques	3.0
	ADS/PSY	220	Practicum	3.0
	ADS/PSY	221	Practicum	3.0
	ADS	240	Ethics and Legal Standards in Alcohol Counseling	3.0
	ADS	251	Dual Diagnosis	3.0
II.	**Minimum of six (6.0) units selected from:**			**6.0**
	ADS/SOC	150	Sociology of Minority Groups (3.0)	
	ADS	176	Sex and Gambling Addiction (1.0)	
	ADS	177	Anger Management (1.0)	
	ADS	178	Life Skills (1.0)	
	ADS	230	Alcohol and Drug Prevention and Education (3.0)	
	PSY	101	Introduction to Psychology (3.0)	
	PSY	144	The Psychology of Interpersonal Relationships (3.0)	
	PSY	204	Developmental Psychology: Conception 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)	
Total Certificate Units				**36.0**

ADMINISTRATION OF JUSTICE

DEGREES, CERTIFICATES AND AWARDS
Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

The Administration of Justice Program involves the study of the theory and practice of law enforcement, police work, and the court and corrections systems. These core and elective courses provide the student with a base of knowledge and proficiency in the general area. Law enforcement, whether as a line officer, deputy sheriff, marshal or state traffic officer, offers a rewarding opportunity to serve society. Specialized officers such as game wardens, forest rangers or criminal investigators make unique contributions throughout our state and nation. They investigate crime, present cases in court and render other service to the justice system and the people. Much of their job now consists of actively serving the many social needs of their community.

PROGRAM LEARNING OUTCOMES

1. Demonstrate knowledge and understanding of the U.S. Constitution and the subsequent Amendments pertaining to the Justice System.
2. Demonstrate knowledge and understanding of the Criminal Justice System to include investigation of crimes, prosecution of offenders in court and incarceration of convicted perpetrators in the Correctional System.
3. Demonstrate knowledge and understanding of the principles of a law enforcement report, in particular those elements of the Corpus (body) of the criminal act, the proper documentation of Witness Statements and Evidence.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities. Some positions however require a four-year degree for which IVC's program is a good base for transfer.

- Police Officer
- Industrial Security Officer
- Deputy Sheriff
- Evidence Technician
- Animal Control
- Computer
- Forensics
- Highway Patrol Officer
- Alcoholism Counselor
- Police Clerk
- FBI Agent
- Accident Investigator
- Polygraph Operator
- Forest Ranger
- Customs Agent
- Investigator Trainer
- Drug Enforcement
- Insurance Investigator
- Code Enforcement
- Border Patrol Agent
- Criminal Investigator
- Legal Secretary
- Fingerprint Classifier
- Store Detective
- Security Specialist
- Matron
- Police Dispatcher
- Warden
- Park Ranger
- Correctional Counselor
- Law
- Paralegal
- Probation Officer
- Parole Agent
- Counselor
- Private Detective
- Jailer
- Officer Agent Drug Abuse
- Corrections Officer

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine

www.CSUMentor.edu – CSU System Information

www.universityofcalifornia.edu/admissions/index.html - UC System Information

www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: **www.imperial.edu/students/financial-aid-and-scholarships/**

ADMINISTRATION OF JUSTICE

ASSOCIATE DEGREE PROGRAM

ADMINISTRATION OF JUSTICE - A.S. DEGREE
Twenty-four (24.0) units required for the major.

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

I. Required courses for the major (18.0 units)

AJ	100	Introduction to Administration of Justice	3.0
AJ	102	Concepts of Criminal Law	3.0
AJ	104	Legal Aspects of Evidence	3.0
AJ	106	Principles and Procedures of the Justice System	3.0
AJ	108	Public Safety Report Writing (Formerly AJ 120)	3.0
AJ	110	Law Enforcement Community Relations	3.0

II. Acceptable courses for the major (Select a minimum of 6.0 units)

AJ	121	Law Enforcement Field Operations (3.0)
AJ	141	Arrest and Firearms (3.5)
AJ	222	Criminal Investigation (Formerly AJ 122) (3.0)
AJ	223	Juvenile Control (Formerly AJ 123) (3.0)
AJ/SOC	224	Criminology (Formerly AJ 124) (3.0)
CSI	100	Introduction to Corrections (3.0)
CSI	104	Concepts of Probation and Parole (3.0)

Total Major Units **24.0**

CERTIFICATE PROGRAM

ADMINISTRATION OF JUSTICE CERTIFICATE
Twenty-two (22.0) units required for the certificate.

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

I. Required courses for the certificate (22.0)

AJ	100	Introduction to Administration of Justice	3.0
AJ	102	Concepts of Criminal Law	3.0
AJ	104	Legal Aspects of Evidence	3.0
AJ	106	Principles and Procedures of the Justice System	3.0
AJ	110	Law Enforcement Community Relations	3.0
AJ	223	Juvenile Control	3.0
ENGL	110	Composition and Reading	4.0

Total Certificate Units **22.0**

ADMINISTRATION OF JUSTICE (For Transfer)

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree in Administration of Justice for Transfer (AS-T)

DESCRIPTION

Administration of Justice involves the study of the theory and practice of law enforcement, police work, the courts and corrections systems. The core and elective courses provide the student with a base of knowledge and proficiency in the multidisciplinary examinations of crime, crime control, the justice process, and justice institutions. The discipline addresses definitions, causation, prevention, investigation, legal process, treatment, rehabilitation, and research relating to crime and justice as well as the institutions of the justice system and their administration.

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 this degree (AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1. Demonstrate knowledge and understanding of the U.S. Constitution and the subsequent Amendments pertaining to the Justice System.
2. Demonstrate knowledge and understanding of the Criminal Justice System to include investigation of crimes, prosecution of offenders in court and incarceration of convicted perpetrators in the Correctional System.
3. Demonstrate knowledge and understanding of the principles of a law enforcement report, in particular those elements of the Corpus (body) of the criminal act, the proper documentation of Witness Statements and Evidence.

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities. Some positions however require a four-year degree for which IVC's program is a good base for transfer.

- Police Officer
- Industrial Security Officer
- Deputy Sheriff
- Evidence Technician
- Animal Control
- Computer
- Forensics
- Highway Patrol Officer
- Alcoholism Counselor
- Police Clerk
- FBI Agent
- Accident Investigator
- Polygraph Operator
- Forest Ranger
- Customs Agent
- Investigator Trainer
- Drug Enforcement
- Insurance Investigator
- Code Enforcement
- Border Patrol Agent
- Criminal Investigator
- Legal Secretary
- Fingerprint Classifier
- Store Detective
- Security Specialist
- Matron
- Police Dispatcher
- Warden
- Park Ranger
- Correctional Counselor
- Law
- Paralegal
- Probation Officer
- Parole Agent
- Counselor
- Private Detective
- Jailer
- Officer Agent Drug Abuse
- Corrections Officer

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

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www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: **www.imperial.edu/students/financial-aid-and-scholarships/**

ADMINISTRATION OF JUSTICE (For Transfer)

ASSOCIATE DEGREE PROGRAM

ADMINISTRATION OF JUSTICE
Associate in Science Degree in Administration of Justice for Transfer (AS-T) – 18.0-19.0 units

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

REQUIREMENTS FOR THE DEGREE

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. Eighteen to Nineteen (18-19) units required for the major

A. Required for the Major (6) units			
AJ	100	Introduction to the Administration of Justice	3.0
AJ	102	Concepts of Criminal Law	3.0
B. Select six (6) units from:			6.0
AJ	104	Legal Aspects of Evidence (3.0)	
AJ	106	Principles & Procedures of the Justice System (3.0)	
AJ	110	Law Enforcement Community Relations (3.0)	
AJ	222	Criminal Investigation (3.0)	
AJ	223	Juvenile Control (3.0)	
CSI	100	Introduction to Correctional Systems (3.0)	
C. Select six to seven (6.0-7.0) units from			6.0-7.0
MATH	119	Elementary Statistics (4.0)	
PSY	101	Introduction to Psychology (3.0)	
SOC	101	Introduction to Sociology (3.0)	

Total Major Units	18.0-19.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	
Total Maximum Units:	**60.0**

AGRICULTURE BUSINESS (For Transfer)

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree in Agriculture Business for Transfer (AS-T)

DESCRIPTION

The Associate in Science in Agriculture Business for Transfer Degree provides for the application of business concepts to the agricultural industry and emphasizes training in management for careers in agriculture. Advanced degrees and/or professional certificates, such as a baccalaureate degree, are required for those jobs or careers such as management and operations of farms, management of firms that supply the services to farms, and processing, marketing, distribution, and sales of farm products.

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 this degree (AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1. Demonstrate understanding of market trends and influential factors, display critical thinking skills related to production and marketing development, data interpretation as applied to thedecision making process related to commercial production and commodity sales.
2. Display competency with respect to the use of standard lab, industry equipment and techniques used in production.
3. Demonstrate understanding of scientific research and critical thinking skills related to hypothesis development and data interpretation as applied to the decision making process for commercial production.

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

For job seekers, it is probably the most readily available entry-level position in the agriculture industry. Numerous specialized companies throughout California require qualified persons for marketing, sales, finance, policy, government, farm ranch management, and international trade and development. For job entry and advancement, however, certain basic skills remain fundamental. These include proficiency in computers, record keeping, finance, management and marketing.

- Accountant
- Appraiser
- Bookkeeper
- Business Manager
- Business Owner
- Commodity Broker
- Community Development
- Consultant
- Elevator Management
- Farm Management/Operations
- Equipment Dealer
- Farm and Ranch Manager
- Farmland Portfolio Analysis
- Farm/Estate Sales
- Insurance Agent
- Land Appraiser
- Lending/Finance
- Livestock Buyer
- Loan Officer
- Grain Merchandising/Commodities
- Management Specialist
- Marketing/Public Relations
- Policy/International Trade
- Production/Management
- Trainee
- Produce Buyer
- Public Relations
- Retail Sales
- Sales Representative

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

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http://wiche.edu/wue - Western Undergraduate Exchange Programs

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AGRICULTURE BUSINESS (For Transfer)

ASSOCIATE DEGREE PROGRAM

AGRICULTURE BUSINESS
Associate in Science Degree in Agriculture Business for Transfer (AS-T) – 22.0-30.0 units

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

REQUIREMENTS FOR THE DEGREE

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. Twenty-two to Thirty (22-30) units required for the major

Required for the Major (13-14 units)

AG	120	Soil Science	3.0
OR			
CHEM	100	Introduction to Chemistry	4.0
AG	130	Agricultural Economics	3.0
ECON	102	Introduction to Macro Economics	3.0
MATH	119	Elementary Statistics	4.0

List A: Select three courses (9-10 units): 9.0-10.0

AG	134	Agricultural Business Organization (3.0)
AG	136	Agricultural Sales, Communication, and Service Management (3.0)
AG	138	Computer Applications in Agriculture (3.0)
AG	140	Principles of Plant Science (4.0)

List B: Select (0-6 units) 0.0-6.0

Any course not selected from List A above

AG	220	Irrigation and Drainage (3.0)
AG	230	Fertilizer and Soil Amendments (3.0)

Total Major Units	22.0-30.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	
Total Maximum Units:	**60.0**

AGRICULTURE BUSINESS MANAGEMENT

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION

Agriculture Business Mangement is the application of business concepts and economic principles involved in the organization, operation, and mangement of agricultural enterprises. Careers may include the management and operations of farms; management of firms that supply or service farm related operations; and management of industries engaged in processing, marketing, distribution, and sales of farm products.

PROGRAM LEARNING OUTCOMES

1. Demonstrate understanding of market trends and influential factors, display critical thinking skills related to production and marketing development, data interpretation as applied to thedecision making process related to commercial production and commodity sales.

2. Display competency with respect to the use of standard lab, industry equipment and techniques used in production.

3. Demonstrate understanding of scientific research and critical thinking skills related to hypothesis development and data interpretation as applied to the decision making process for commercial production.

CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

For job seekers, it is probably the most readily available entry-level position in the agriculture industry. Numerous specialized companies throughout California require qualified persons for marketing, sales, finance, policy, government, farm ranch management, and international trade and development. For job entry and advancement, however, certain basic skills remain fundamental. These include proficiency in computers, record keeping, finance, management and marketing.

- Accountant
- Appraiser
- Bookkeeper
- Business Manager
- Business Owner
- Commodity Broker
- Community Development
- Consultant
- Elevator Management
- Farm Management/Operations
- Equipment Dealer
- Farm and Ranch Manager
- Farmland Portfolio Analysis
- Farm/Estate Sales
- Insurance Agent
- Land Appraiser
- Lending/Finance
- Livestock Buyer
- Loan Officer
- Grain Merchandising/Commodities
- Management Specialist
- Marketing/Public Relations
- Policy/International Trade
- Production/Management
- Trainee
- Produce Buyer
- Public Relations
- Retail Sales
- Sales Representative

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: **www.imperial.edu/students/financial-aid-and-scholarships/**

AGRICULTURE BUSINESS MANAGEMENT

CERTIFICATE PROGRAM

AGRICULTURE BUSINESS MANAGEMENT
Eighteen to Ninteen (18.0-19.0) units required for the certificate.

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

I. Required courses for the certificate (15.0)

AG	120	Soil Science	3.0
AG	130	Agricultural Economics	3.0
AG	134	Agricultural Business Organization	3.0
AG	136	Agricultural Sales, Communication, and Service Management	3.0
ECON	102	Introduction to Macro Economics	3.0

II. Acceptable courses for the certificate (select one)

AG	138	Computer Applications in Agriculture (3.0)
AG	140	Principles of Plant Science (4.0)

Total Certificate Units **18.0-19.0**

AGRICULTURE PLANT SCIENCE (For Transfer)

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree in Agriculture Plant Science for Transfer (AS-T)

DESCRIPTION

The Associate in Science in Agriculture Plant Science for Transfer Degree provides for 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 transfer and prepare to seek employment. Careers may include Agricultural Products Inspector, Crop Consultant, Soil Surveyor, Farm Manager/Operator, Land-Use Planner, Plant Breeder, and Organic Certification Specialist.

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 this degree (AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1. Demonstrate an understanding of fundamental concepts and knowledge related to the selection, propagation and management of various plant commodities produced for food, feed and fiber.
2. Display competency with respect to the use of standard lab, industry equipment and techniques commonly used in production.
3. Demonstrate understanding of scientific research and display critical thinking skills related to hypothesis development and data interpretation as applied to the decision making process related to commercial production.

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

California is one of the top states in the nation in annual gross agricultural returns. The livestock industry and over 250 specialty crops provide a variety of career choices. Trained personnel are employed on ranches and farms, as well as the vast agriculture service industry. Career opportunities also exist with governmental agencies. Every year there are several openings in Agriculture Education in California as well as other states. Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Agribusiness Representative
- Agricultural Products Inspector
- Agronomist
- Chemical Fertilizer Sales
- College Instructor
- Cooperative Extension Agent
- Cooperative Manager
- Crop Consultant
- Crop Production
- Crop Scout/Consultant
- Education Specialist
- Farm Manager
- Farming Operation
- 4-H Association Youth Specialist
- Genetic Engineering Scientist
- International Agronomist
- Land Reclamation Specialist
- Land-Use Planner
- Organic Certification Specialist
- Plant Breeder
- Research Technician
- Sales Representative
- Seed Production
- Soil Conservation Specialist
- Youth Development Specialist
- Waste Management Specialist
- Water Quality Specialist
- Agronomic Production Manager
- Conservation/Environmental Technician
- County Agricultural Extension Agents
- High School Agriculture Teacher
- Plant Geneticist Post secondary Teacher
- Seed, Chemical and Fertilizer Consultant
- Soil Surveyor Vocational Agriculture Teacher

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine

www.CSUMentor.edu – CSU System Information

www.universityofcalifornia.edu/admissions/index.html - UC System Information

www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: **www.imperial.edu/students/financial-aid-and-scholarships/**

AGRICULTURE PLANT SCIENCE (For Transfer)

ASSOCIATE DEGREE PROGRAM

AGRICULTURE PLANT SCIENCE

Associate in Science Degree in Agriculture Plant Science for Transfer (AS-T) – 21.0-28.0 units

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

REQUIREMENTS FOR THE DEGREE

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. Twenty-one to Twenty-eight (21-28) units required for the major

Required for the Major (21-22 units)

AG	120	Soil Science	3.0
CHEM	100	Introduction to Chemistry	4.0
OR			
CHEM	200	General Inorganic Chemistry I	5.0
AG	130	Agricultural Economics	3.0
OR			
ECON	101	Introduction to Macro Economics	3.0
MATH	119	Elementary Statistics	4.0
AG	140	Principles of Plant Science	4.0
AG	245	Plant Propagation/Production	3.0

Select (0-6 units) 0.0-6.0

AG	170	Irrigation and Drainage (3.0)
AG	220	Irrigation and Drainage (3.0)
AG	230	Fertilizer and Soil Amendments (3.0)

Total Major Units	21.0-28.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	____
Total Maximum Units:	**60.0**

AGRICULTURE PLANT SCIENCE

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION

Agriculture Plant Science encompasses the study of the plant, soil, and water resources that are foundational to all agro-ecosystems and prepares the student for a challenging career in many areas including: soil and crop management, plant breeding and genetics, seed science, environmental soil science, soil restoration and conservation, international agriculture, and ecosystem management.

PROGRAM LEARNING OUTCOMES

1. Demonstrate an understanding of fundamental concepts and knowledge related to the selection, propagation and management of various plant commodities produced for food, feed and fiber.
2. Display competency with respect to the use of standard lab, industry equipment and techniques used in production.
3. Demonstrate understanding of scientific research and critical thinking skills related to hypothesis development and data interpretation as applied to the decision making process for commercial production.

CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

California is one of the top states in the nation in annual gross agricultural returns. The livestock industry and over 250 specialty crops provide a variety of career choices. Trained personnel are employed on ranches and farms, as well as the vast agriculture service industry. Career opportunities also exist with governmental agencies. Every year there are several openings in Agriculture Education in California as well as other states. Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Agribusiness Representative
- Agricultural Products Inspector
- Agronomist
- Chemical Fertilizer Sales
- College Instructor
- Cooperative Extension Agent
- Cooperative Manager
- Crop Consultant
- Crop Production
- Agronomic Production Manager
- County Agricultural Extension Agents
- Plant Geneticist Post secondary Teacher
- Soil Surveyor Vocational Agriculture Teacher
- Crop Scout/Consultant
- Education Specialist
- Farm Manager
- Farming Operation
- 4-H Association Youth Specialist
- Genetic Engineering Scientist
- International Agronomist
- Land Reclamation Specialist
- Land-Use Planner
- Conservation/Environmental Technician
- High School Agriculture Teacher
- Seed, Chemical and Fertilizer Consultant
- Organic Certification Specialist
- Plant Breeder
- Research Technician
- Sales Representative
- Seed Production
- Soil Conservation Specialist
- Youth Development Specialist
- Waste Management Specialist
- Water Quality Specialist

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine

www.CSUMentor.edu – CSU System Information

www.universityofcalifornia.edu/admissions/index.html - UC System Information

www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: **www.imperial.edu/students/financial-aid-and-scholarships/**

AGRICULTURE PLANT SCIENCE

CERTIFICATE PROGRAM

AGRICULTURE PLANT SCIENCE
Nineteen (19.0) units required for the certificate.

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

I. Required courses for the certificate (10.0)

AG	120	Soil Science	3.0
AG	140	Principles of Plant Science	4.0
AG	245	Plant Propagation/Production	3.0

II. Acceptable courses for the certificate (select a minimum of 9 units)

AG	134	Agricultural Business Organization (3.0)
AG	138	Computer Applications in Agriculture (3.0)
AG	170	Principles of Entomology (3.0)
AG	220	Irrigation and Drainage (3.0)

Total Major Units **19.0**

AIR CONDITIONING AND REFRIGERATION TECHNOLOGY

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

Air Conditioning and Refrigeration Technology (ACR) is a constantly changing, self gratifying program designed to satisfy the mechanically oriented person. 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 with entry level skills for employment in the rapidly growing service industry of Air Conditioning and Refrigeration.

PROGRAM LEARNING OUTCOMES

1. Demonstrate knowledge of OHSA safety practices required for repair and installation of air conditioning and refrigerant equipment.
2. Demonstrate and understand practical and manipulative skills relates to HVAC/R industry.
3. Demonstrate competency and mastery of the body-of-knowledge in employee responsibilities within the HVAC/R industry.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Some of these careers may require education beyond the two year college level.

- ACR Contractor
- ACR Mechanic
- ACR Installer
- ACR and Heating Engineer
- Dispatcher
- Electrician
- Manufacturers Service Rep
- Sales Engineer
- Service Manager
- Service Technician
- Sheet Metal Technician

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine

www.CSUMentor.edu – CSU System Information

www.universityofcalifornia.edu/admissions/index.html - UC System Information

www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

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AIR CONDITIONING AND REFRIGERATION TECHNOLOGY

ASSOCIATE DEGREE PROGRAM

AIR CONDITIONING AND REFRIGERATION TECHNOLOGY MAJOR – A.S. DEGREE
Thirty (30.0) units required for the major.

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

I. **Thirty (30.0) units required for the major.**

ACR	101	Air Conditioning and 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 and Framing	4.0
EWIR	110	Electrical Principles	4.0
WELD	100	Welding Technology	5.0

Total Major Units **30.0**

CERTIFICATE PROGRAM

AIR CONDITIONING AND REFRIGERATION TECHNOLOGY CERTIFICATE
Seventeen (17.0) units required for the certificate.

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

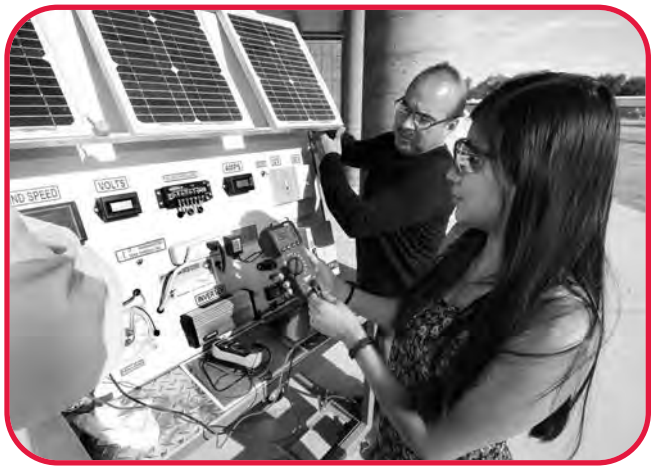
I. **Seventeen (17.0) units required for the certificate.**

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 Condition Heating Systems	3.0
ACR	105	Heat Load Calculation and Measurements	2.0
ACR	106	Air Conditioning Ventilation Duct Systems	3.0

Total Certificate Units **17.0**

ALTERNATIVE ENERGY - SOLAR TECHNOLOGY

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement



DESCRIPTION

The Alternative Energy-Solar Technology Certificate program is intended to provide an opportunity for students interested in an alternative energy career. This certificate will provide students with the comprehensive understanding, manipulative skills, technical knowledge and related trade information required to prepare them for the nationally recognized Solar NABCEP PV and SH Entry Level Exams. This certificate program will enhance the students' employment opportunities in the growing and rewarding fields of solar systems installation, operation, and maintenance technology.

PROGRAM LEARNING OUTCOMES

1. Identify and describe the principles of photovoltaic (solar).
2. Describe and explain the National Electrical Codes for solar electrical circuits.
3. Identify the principles of electrical alternative energy system.

CERTIFICATE OF ACHIEVEMENT PROGRAM

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: **www.imperial.edu/students/financial-aid-and-scholarships/**

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Electrical Installer
- Commercial Electrical Installer
- Electrical Maintenance Technician
- Electrician
- Industrial Maintenance Electrician
- Environmental Engineer
- Solar Engineer
- Electrical Engineer
- Environmental Scientist
- Environmental Engineer

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

ALTERNATIVE ENERGY - SOLAR TECHNOLOGY

CERTIFICATE PROGRAM

ALTERNATIVE ENERGY-SOLAR TECHNOLOGY
Twenty-two (22.0) units required for the certificate.

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

I. Required courses for the certificate.

BLDC	101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0
EWIR	110	Electrical Principles	4.0
RNEW	118	Alternative Energies	4.0
RNEW	150	Solar Energy Systems PV1	3.0
RNEW	151	Solar Electrical Systems PV2	3.0
RNEW	152	Solar Heating (SH)	3.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0

Total Certificate Units **22.0**

ANTHROPOLOGY (For Transfer)

DEGREES, CERTIFICATES AND AWARDS

Associate in Arts Degree in Anthropology for Transfer (AA-T)

DESCRIPTION

Anthropology is the study of ancient and modern human beings and their ways of living. Its perspective is biological, social and comparative, encompassing all aspects of human existence from the most ancient societies to those of the present day. The courses are designed to stimulate critical thinking about existing stereotypes regarding the people around us in the world now and those who came before. Cultural Anthropology studies human behavior to understand the cultural values that guide the behaviors. Archaeology examines the material record of human activity in order to understand how ideas change over time. Physical Anthropology (also called Biological Anthropology) is the study of human evolution which includes human biological diversity.

The Associate in Arts 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 (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1. Global Cultural Diversity by recognizing the various social institutions, linguistic diversity, the ways societies have adapted to different environments, and modern andtraditional health care system. (Cultural Anthropology)
2. Global Biological Diversity by critically analyzing the evolutionary history of humankind through the fossil record, and the current biological diversity based on scientificevidence of environmental adaptation and the study of genetics. (Biological/Physical Anthropology)
3. Cultural change and development by comparing and contrasting the different stages of cultural development at various geographic regions of the world and the causal factors that lead towards civilizations, monumental architecture, writing, and social stratification. (Archaeology)
4. Comparing and contrasting the Indigenous Cultures of North America, their prehistory, language and social diversity, mythology, and adaptation to a diverse geography and environment. (American Indian Studies)

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Archaeologist
- Linguist
- Museum Curator
- Health Researcher
- Redevelopment Specialist
- Industrial Consultant
- Artifacts Conservator
- Resource Manager
- Environmental Impact Analyst
- Ethnic Relations Specialist
- Population Analyst
- Urban Planner
- Exhibit Designer
- Expedition Guide
- Film Ethnographer
- Social Gerontologist
- College Faculty Member
- Bilingual Education Consultant
- Medical Anthropologist
- Primatologist
- Zoo Director
- Museum Program Director
- Museum Registrar
- Forensic Anthropologist
- Folklorist

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TRANSFER PREPARATION

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Transfer Resources:

www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine

www.CSUMentor.edu – CSU System Information

www.universityofcalifornia.edu/admissions/index.html - UC System Information

www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

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ANTHROPOLOGY (For Transfer)

ASSOCIATE DEGREE PROGRAM

ANTHROPOLOGY

Associate in Arts Degree in Anthropology for Transfer (AA-T) – 19.0-20.0 units

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

REQUIREMENTS FOR THE DEGREE

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. **Nineteen to Twenty (19-20) units required for the major.**

A. Required for the Major (13 units)

ANTH	100	Physical Anthropology	3.0
ANTH	102	Cultural Anthropology	3.0
ANTH	120	Introduction to Archaeology	3.0
MATH	119	Elementary Statistics	4.0
B. Select one (3-4) units:			3.0-4.0
GEOL	100	General Geology (4.0)	
PSY	212	Research Methods in Psychology (3.0)	
C. Select one (3) units:			3.0
Any course from List B not already used.			
AIS/ANTH	106	Indians of North America (3.0)	
AIS/ANTH	108	Indians of the Southwest (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 East from 600 (3.0)	
HIST	220	Women in American History (3.0)	
HIST/LAS	225	Mexican American History (3.0)	
RELS	100	Religions of the Modern World (3.0)	

Total Major Units	19.0-20.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 degree applicable units)	
Total Maximum Units:	**60.0**

AUTOMOTIVE TECHNOLOGY

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

The Automotive Technology program at IVC emphasizes a real world approach to diagnostic skill building and a thorough understanding of system theory and operations. This is accomplished through the use of computer programs, audiovisuals, and hands-on experience with mockups and modern vehicles. Automotive fundamentals are developed with a generalist approach emphasizing independence in self-directed learning. Professionalism, workplace skills and responsibilities are stressed along with safety and an awareness of hazardous materials control. The Automotive Department encourages both women and men to participate in this rewarding profession.

PROGRAM LEARNING OUTCOMES

1. Describe the purpose of the fundamental automotive systems.
2. Describe the type of skills needed to be an auto technician.
3. Correctly answer ASE certification test questions that require a knowledge of the major parts and systems of a vehicle.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Of the career opportunities identified some will usually require the completion of degree requirements at 4-year colleges and universities.

- Tune-up Technician
- Brake Specialist
- General Technician
- Alignment Specialist
- Service Management
- Engine Performance/Drivability Specialist
- Electrical Specialist
- Service Writer
- Transmission Specialist
- Quick Service Tech
- Industrial Technology
- Industrial Engineer
- Automotive Engineer
- Electrical Engineer

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TRANSFER PREPARATION

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FINANCIAL AID

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AUTOMOTIVE TECHNOLOGY

ASSOCIATE DEGREE PROGRAM

AUTOMOTIVE TECHNOLOGY MAJOR – A.S. DEGREE
Thirty-nine (39.0) units required for the major.

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

I. Required courses for the major (39.0 units)

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

Total Major Units **39.0**

CERTIFICATE PROGRAM

AUTOMOTIVE TECHNOLOGY CERTIFICATE
Thirty-nine (39.0) units required for the certificate.

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

I. Required courses for the certificate (39.0)

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

Total Certificate Units **39.0**

BRAKES, SUSPENSION AND STEERING SPECIALIZATION (Auto Technology)

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION

This program is designed to prepare students for entry level employment in the area of Automotive Brakes, Suspension, and Steering. The program will provide the student the necessary skills and knowledge demanded of the modern automotive brakes, suspension, and steering systems. This program will prepare students for employment in the following technical and professional fields: automotive brakes, automotive suspension, steering wheel, and four wheel alignment technicians. In addition, the student will gain the necessary knowledge and preparation to pursue the State Brake License. Upon successful completion of this program, students will be prepared to take Automotive Service Excellence (ASE), Exams for Automotive Brake (Test A4), and Automotive Suspension (Test A5).

PROGRAM LEARNING OUTCOMES

1. Identify the major part of an automotive brake system
2. Explain the operating principles of steering wheel system
3. Diagnose brake and steering column noises, looseness and binding concerns including tilt mechanisms
4. Diagnosis and repair: Disc and drum brakes units

CERTIFICATE OF ACHIEVEMENT PROGRAM

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

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CAREER OPPORTUNITIES

Jobs are available with auto repair shops and machine shops. Experienced technicians with leadership ability may advance to shop supervisors, service writers and service managers.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

BRAKES, SUSPENSION AND STEERING SPECIALIZATION (Auto Technology)

CERTIFICATE PROGRAM

AUTOMOTIVE BRAKES, SUSPENSION AND STEERING SPECIALIZATION
Twenty (20.0) units required for the certificate.

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

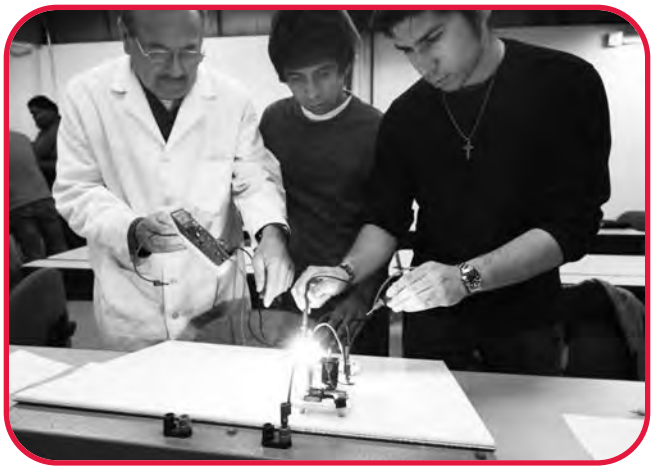
I. Required courses for the certificate.

AUT	070	Automotive Techniques and Applications	3.0
AUT	125	Automotive Brakes	4.0
AUT	130	Automotive Electronics I	3.0
AUT	155	Suspension & Wheel Alignment	4.0
AUT	180	Manual Transmissions and Power Trains	4.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0

Total Certificate Units **20.0**

ELECTRICAL/ELECTRONIC AND AIR CONDITIONING SPECIALIZATION (Auto Technology)

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement



DESCRIPTION

This program is designed to prepare students for entry level employment in the area of automotive electrical/electronic and air conditioning technology. The program will provide the necessary skills and knowledge through the use of modern tools and equipment to diagnose electrical and electronic circuits. Students will be prepared for employment in the following technical and professional fields: Electronic Engine Computer Control; Power Train Computer Control; Brake and Suspension Computer Control; and Air Conditioning Instrumentation Computer Control. Upon successful completion of this program, students will be prepared to take the Automotive Service Excellence (ASE) exams in Electrical/ Electronic Systems (Test A6), and Heating and Air Conditioning (Test A7).

PROGRAM LEARNING OUTCOMES

1. Identify and interpret electrical/electronic system concern; determine necessary action.
2. Use wiring diagrams during diagnosis of electrical circuit problems.
3. Demonstrate the proper use of a digital multimeter (DMM) during diagnosis of electrical circuit problems.

CERTIFICATE OF ACHIEVEMENT PROGRAM

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Jobs are available with auto repair dealerships, independent shops, and may even start their own business. Experienced technicians with leadership ability may advance to shop supervisors, service writers and service managers.

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ELECTRICAL/ELECTRONIC AND AIR CONDITIONING SPECIALIZATION (Auto Technology)

CERTIFICATE PROGRAM

ELECTRICAL/ELECTRONIC AND AIR CONDITIONING SPECIALIZATION
Eighteen (18.0) units required for the certificate.

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

I. Required courses for the certificate.

AUT	085	Automotive Maintenance and Repair	3.0
AUT	130	Automotive Electronics I	3.0
AUT	150	Automotive Electronics II	4.0
AUT	210	Automotive Air Conditioning	3.0
AUT	235	Auto Electrical/Electronic Instruments	3.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0

Total Certificate Units **18.0**

ENGINE PERFORMANCE AND DRIVABILITY SPECIALIZATION (Auto Technology)

DEGREES, CERTIFICATES AND AWARDS

Certificate of Achievement

DESCRIPTION

The Engine Performance and Drivability Specialization Certificate of Achievement program is designed to prepare students for entry level employment in the area of engine performance and drivability. The program will provide the necessary skills, through the useof modern tools and equipment, to diagnose and repair engines using the latest technology applications. In addition, students willlearn to use electronic diagnostic equipment to measure computer engine electronic systems parameters. This program will prepare students for employment in the following fields: engine performance, engine tune-up, and engine electronic and general instrumentation diagnostics. In addition, the students will gain the necessary knowledge and preparation to pursue the State of California Emission Control License. Upon successful completion of this program, students will be prepared to take Automotive Service Excellence (ASE) exams in Engine Performance (Test A8), Electronic System (Test A6), Advanced Engine Performance (Test L1) and the State of California Emission Control License.

PROGRAM LEARNING OUTCOMES

1. Identify and interpret engine performance concern; determine necessary action.
2. Retrieve and record diagnostic trouble codes, OBD monitor status, and freeze and frame data; clear codes when applicable.
3. Diagnose emissions or driveability concerns without store diagnostic trouble codes; determine necessary action.
4. Research applicable vehicle and service information such as engine management system operation, vehicle service history, service precautions, and service technical bulletins.
5. Locate and interpret vehicle and major component identification numbers.
6. Check for module communication (including CAN/BUS systems) errors using a scan tool.

CERTIFICATE OF ACHIEVEMENT PROGRAM

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Jobs opportunities are available with auto repair dealerships, independent shops, and may even start their own business.

Experienced technicians with leadership ability may advance to shop supervisors, service writers, smog check technicians, and service managers.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

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ENGINE PERFORMANCE AND DRIVABILITY SPECIALIZATION (Auto Technology)

CERTIFICATE PROGRAM

ENGINE PERFORMANCE AND DRIVABILITY SPECIALIZATION
Twenty-two (22.0) units required for the certificate.

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

I. Required courses for the certificate.

AUT	130	Automotive Electronics I	3.0
AUT	150	Automotive Electronics II	4.0
AUT	160	Engine Performance Tune-Up	3.0
AUT	170	Engine Diagnosis and Repair	3.0
AUT	230	Emissions Control & Computer Systems	3.0
AUT	231	Auto Emission Control System	4.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0

Total Certificate Units **22.0**

ENGINE REPAIR AND MACHINIST SPECIALIZATION (Auto Technology)

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION

The Engine Repair and Machinist Specialization Certificate of Achievement program is designed to prepare students for employment as Engine Repair and Machinist Specialists. The program will provide the necessary skills and knowledge through the use of modern tools and equipment to repair automotive engines and perform specialty work in machine shops. Students will learn to use honing and boring machines and motor balancing. Students will be working with high performance engines as well as using blueprint measurements. This program will prepare students for employment in the following fields: general mechanics, engine specialist, engine machinist specialist and high performance engine applications. In addition, the students will gain the necessary knowledge and preparation to pursue the State of California Emission Control License. Upon successful completions of this program, students will be prepared to take the Automotive Service Excellence (ASE) exams for Engine Repair (Test A1), and Machinist Specialist (M1, M2, and M3).

PROGRAM LEARNING OUTCOMES

1. Demonstrate safe operation of hand tools and equipment.
2. Identify major machine shop equipment components, construction machines and high power units.
3. Diagnose major component failures and recommend repairs.
4. Perform typical major component repairs.

CERTIFICATE OF ACHIEVEMENT PROGRAM

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Jobs are available with auto repair and machine shops as general mechanics, engine specialists, engine machinist specialists and high performance engine applications. Experienced technicians with leadership ability may advance to shop supervisors, service writers and service managers.

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ENGINE REPAIR AND MACHINIST SPECIALIZATION (Auto Technology)

CERTIFICATE PROGRAM

ENGINE REPAIR AND MACHINIST SPECIALIZATION
Twenty-two (22.0) units required for the certificate.

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

I. Required courses for the certificate.

AUT	075	Basic Shop Skills	3.0
AUT	110	Engine Technology	4.0
AUT	120	Automotive Machine Shop	4.0
AUT	122	High Performance Engine Blueprinting I	4.0
WELD	100	Welding Technology	5.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0

Total Certificate Units **22.0**

TRANSMISSION AND POWER TRAIN SPECIALIZATION (Auto Technology)

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION

The Transmission and Power Train Specialization Certificate of Achievement is designed to prepare students for employment as Automatic Transmission and Power Train Specialists. The program will provide the necessary skills and knowledge through the use of modern tools and equipment to diagnose and repair automatic and manual transmissions using the latest technology applications. In addition students will learn to use electronic diagnostic equipment to troubleshoot electronic transmission units. This program will prepare students for employment in the following fields: transmission specialists, transmission installers, and repair technicians. Upon successful completion of this program, students will be prepared to take Automotive Service Excellence (ASE) exams for Automatic Transmissions (Test A2) and Manual Drive Transmission (Test A3).

PROGRAM LEARNING OUTCOMES

1. Demonstrate safe operation of transmission hand tools and shop equipment.
2. Identify major transmission shop equipment components, transmission tester dyno, and hydraulic transmission flasher unit.
3. Diagnose major components failures and recommended repairs.
4. Perform typical major components.

CERTIFICATE OF ACHIEVEMENT PROGRAM

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

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CAREER OPPORTUNITIES

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TRANSMISSION AND POWER TRAIN SPECIALIZATION (Auto Technology)

CERTIFICATE PROGRAM

TRANSMISSION AND POWER TRAIN SPECIALIZATION
Twenty (20.0) units required for the certificate.

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

I. Required courses for the certificate.

AUT	070	Automotive Techniques and Applications	3.0
AUT	130	Automotive Electronics I	3.0
AUT	180	Manual Transmissions and Power Trains	4.0
AUT	220	Mechanical Automatic Transmissions	4.0
AUT	250	Electronic Automatic Transmissions	4.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0

Total Certificate Units **20.0**

BEHAVIORAL SCIENCE

DEGREES, CERTIFICATES AND AWARDS
Associate in Arts Degree (A.A.)

DESCRIPTION

This major is highly recommended for transfer students because it provides a basic foundation for subsequent specialization in many fields of study such as criminal justice, sociology, psychology, human services, and social work to name a few. The value of the degree is now recognized by business and industry as it requires a variety of skills demanded in business, education, health, law, and government, as well as the social services. The general studies student should market educational accomplishments as a collection of career transferable skills in communication, public service, problem solving, production and personnel management.

PROGRAM LEARNING OUTCOMES

1. Use critical thinking skills regarding the diversity of individuals and groups within the role of culture, ethnic and economic factors when describing behaviors, attitudes and feelings of people in society.
2. Apply critical thinking skills to explain how anthropology, psychology and sociology influence one another as well as individuals and groups in society.
3. Apply the scientific method to investigate, interpret and discuss Behavioral Science issues and social problems.

ASSOCIATE DEGREE PROGRAM

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- All Human Service Careers
- Sociologist
- Social Worker
- Youth Counselor
- Criminologist
- Public Opinion Analyst
- Social Scientist
- Recreation Program Director
- Parole, Probation or Correctional Officer
- University and College Teachers
- Employment Counselor
- Lawyer
- Public Relations Consultant
- Statistician
- Gerontologist
- Child Care Program
- Developer
- Urban and Regional Planner
- Community Organization Worker
- Interviewer/Researcher
- Social Program Planner
- Market Researcher
- Law Enforcement Officer
- Mental Health Counselor

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TRANSFER PREPARATION

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FINANCIAL AID

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BEHAVIORAL SCIENCE

ASSOCIATE DEGREE PROGRAM

BEHAVIORAL SCIENCE MAJOR – A.A. DEGREE

The requirement for the major in Behavioral Science may be satisfied by taking 18 units from the following list. Three units in each field of study are recommended. No more than 4 courses may be taken in any one discipline.

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

I. Required courses for the major (18.0 units)

Anthropology and Biology			
ANTH	100	Physical Anthropology	3.0
ANTH	102	Cultural Anthropology	3.0
BIOL	100	Principles of Biological Science	4.0
BIOL	122	General Zoology II	4.0
Psychology and Child Development			
CDEV	103	Child, Family and Community	3.0
MATH	119	Elementary Statistics	4.0
OR			
PSY	214	Statistical Methods in Behavioral Sciences (4.0)	
PSY	101	Introduction to Psychology	3.0
PSY/CDEV	104	Child Growth and Development	3.0
PSY/ADS	120	Introduction to Counseling	3.0
PSY	142	Psychology of Adjustment	3.0
PSY	144	The Psychology of Interpersonal Relationships	3.0
PSY	146	Psychology of Human Sexuality	3.0
PSY	200	Biological Psychology	3.0
PSY	202	Learning	3.0
PSY	204	Developmental Psychology: 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 and Social Work			
SOC	101	Introduction to Sociology	3.0
SOC	102	Contemporary Social Problems	3.0
SOC	110	Marriage and the Family	3.0
SOC/ADS	150	Sociology of Minority Groups	3.0
SOC/PSY	206	Social Psychology	3.0
SOC/AJ	224	Criminology (Formerly SOC/AJ 124)	3.0
SW	220	Introduction to Social Work	3.0

Total Major Units **18.0**

BIOLOGY (For Transfer)

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree in Biology for Transfer (AS-T)

DESCRIPTION

Biology is defined as any one of the branches of science concerned with the structure and behavior of living organisms, such as biology, botany, zoology, physiology, or biochemistry. This curriculum is designed to provide the beginning basics of a two-year transfer program with emphasis on the uniformity and diversity of life. The course requirements fulfill the lower division requirements for Biology.

The Associate in Arts 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 (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1. Students will demonstrate an understanding of fundamental biological concepts and knowledge of the structure and function of living organisms.
2. Students will display competency with respect to the use of standard laboratory equipment and techniques commonly used in life science labs.
3. Students will understand the process of scientific research and display critical thinking skills related to hypothesis development, experimentation and data interpretation.
4. Students will develop a foundation in biology strong enough to allow the successful completion of any attempted 200-level biology course(s).

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Agronomist
- Anatomist
- Animal Scientist
- Biochemist
- Biomedical Engineer
- Biophysicist
- Botanist
- Developmental Biologist
- Ecologist
- Medical Laboratory Technician
- Epidemiologist
- Food Scientist
- Forester
- Geneticist
- Horticulturist
- Immunologist
- Marine Biologist
- Medical Illustrator
- Microbiologist
- Mycologist
- Nutritionist
- Paleontologist
- Pathologist
- Pharmacologist
- Physiologist
- Science Teacher
- Science Writer
- Zoologist

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

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BIOLOGY (For Transfer)

ASSOCIATE DEGREE PROGRAM

BIOLOGY
Associate in Science Degree in Biology for Transfer (AS-T) – 30.0 units

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

REQUIREMENTS FOR THE DEGREE

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) for STEM – 33 units minimum
B. Intersegmental General Education Transfer Curriculum (IGETC) for STEM – 31 units minimum

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

Required for the Major (13 units)

BIOL	180	General Biology: Molecules, Cells, and Genetics	4.0
BIOL	182	General Biology: Organismal Biology	4.0
CHEM	200	General Inorganic Chemistry I	5.0
CHEM	202	General Inorganic Chemistry II	5.0
MATH	192	Analytic Geometry and Calculus I	4.0
PHYS	200	General Physics I	4.0
PHYS	202	General Physics II	4.0

Total Major Units	30.0
CSU-GE or IGETC for STEM Pattern	31.0-33.0
Electives (as needed to reach 60 CSU transferable units)	
Total Maximum Units:	**60.0**

BUILDING CONSTRUCTION TECHNOLOGY

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement
Specialization Certificates in Carpentry and Concrete Masonry

DESCRIPTION

The Building Construction Technology Associate in Science degree along with the certificate and specializations in Carpentry and Concrete Masonry, 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. The course work for the associate degree also emphasizes subject areas that are significant to the construction worker such as engineering fundamentals, construction management, business administration, humanities and social sciences, and the development of analytical and communication skills through the general education requirements.

PROGRAM LEARNING OUTCOMES

1. Measure and understand linear dimensions on plans using an architect scale to be able to interpret the actual measurement according to the scale being used.
2. Perform cost estimates for a construction projects using a local index.
3. Understand the relationship between tensile strength and compressive strength to understand how they interact under pressure.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Of the career opportunities identified some will require the completion of degree requirements at 4-year colleges and universities.

- Construction Manager
- General Contractor
- Sub-Contractor
- Project Manager
- Construction Scheduler or Planner
- Construction Estimator
- Technical Salesperson
- Construction Consultant
- Architect
- Forensic Construction Specialist
- Civil Engineer
- Structural Engineer
- Environmental Engineer

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

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BUILDING CONSTRUCTION TECHNOLOGY

ASSOCIATE DEGREE PROGRAM

BUILDING CONSTRUCTION TECHNOLOGY MAJOR – A.S. DEGREE
Twenty-five (25.0) units required for the major.

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

I. Required for the major (25.0 units)

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

Total Major Units **25.0**

CERTIFICATE PROGRAM

BUILDING CONSTRUCTION TECHNOLOGY CERTIFICATE
Twenty-five (25.0) units required for the certificate.

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

I. Required for the certificate (25.0 units)

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

Total Certificate Units **25.0**

BUILDING CONSTRUCTION TECHNOLOGY

SPECIALIZATION CERTIFICATES
The Specialization Certificate(s) demonstrates a completion of coursework in addition to the major in Building Construction Technology.

ALL COURSES FOR THESE CERFTIFICATES MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

BUILDING CONSTRUCTION TECHNOLOGY: CARPENTRY SPECIALIZATION - Major Plus 7.0 Units
The Carpentry Specialization is 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.

PROGRAM LEARNING OUTCOMES

1. Identify four blueprint symbols and learn their meaning and usage in blueprints; compare the identified symbols to symbols used in other countries in order to understand symbol standardization in the world; measure a linear dimension using an architect scale to be able to interpret the actual measurement according to the scale being used.
2. Create a reliable cost estimate for a construction project in our county based on square footage and compare the same estimate based on labor and material quantities.
3. Students will create a layout and analyze it and test it to make sure it is perfectly square.

I. The major plus seven (7.0) additional units in Carpentry course work.

BLDC	150	Carpentry Methods, Materials & Tools	4.0
BLDC	190	Carpentry Trim & Detail Work	3.0
Total Major Units			25.0
Building Construction Technology: Carpentry Specialization Units			7.0
Total Certificate Units:			**32.0**

BUILDING CONSTRUCTION TECHNOLOGY: CONCRETE MASONRY SPECIALIZATION - Major Plus 8.0 Units
The Concrete Masonry Specialization is designed to provide instruction in manipulative skills, technical knowledge, and related trade information, which will prepare the student for employment in the Building Construction Masonry Industry.

PROGRAM LEARNING OUTCOMES

1. Calculate the quantities in cubic yards using the following formula LxWxD/27= cubic yards, tobe able to estimate actual quantities and place actual orders.
2. Create a reliable cost estimate for a foundation project in our county based on square footageand compare the same estimate based on labor and material quantities.
3. Students will create a layout and analyze it and test it to make sure it is perfectly square.

I. The major plus eight (8.0) additional units in Concrete Masonry course work.

BLDC	165	Concrete Materials, Methods & Tools	4.0
BLDC	185	Concrete Footings, Flatwork & Detail Work	4.0
Total Major Units			25.0
Building Construction Technology: Concrete Masonry Specialization Units			8.0
Total Certificate Units:			**33.0**

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BUSINESS ACCOUNTING TECHNICIAN

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

Business Administration programs at IVC, both at the associate degree and certificate of achievement levels, prepare the student by offering courses that allow students opportunities to acquire practical skills, technical knowledge and experience in a variety of fields. The fields of study available are: Business Administration for transfer, Accounting Technician, Administrative Assistant, Financial Services, Management, Marketing and Office Technician. These programs introduce the student to the world of commercial transactions, which occur in the distribution of resources in our American economic system.

The Business Accounting Technician program provides students with entry level competencies for employment as a bookkeeper or other financial clerk. Accounting Technicians can be found in setting such as banks and offices. Students who intend to pursue an accounting degree at a four-year school should follow the Business Administration major.

PROGRAM LEARNING OUTCOMES

1 Solve business-related math problems.

2 Communicate business results using computer software.

3 Record and report routine accounting transactions.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

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CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Accounting
- Account Executive
- Accountant
- Auditor
- Bank Examiner
- Bank Teller
- Budget Analyst
- Budget Officer
- Certified Internal Auditor
- Certified Management Accountant
- Certified Public Accountant
- Chief Financial Officer
- Controller
- Cost Accountant
- Cost Analyst
- Credit Analyst
- Credit Manager
- Estate Planner
- FBI Agent
- Internal Revenue Service Agent
- Franchise Tax Board Agent
- Government Accountant
- Government Auditor
- Internal Auditor
- Investment Analyst
- Loan Officer
- Tax Accountant
- Tax Consultant
- Treasurer

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TRANSFER PREPARATION

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BUSINESS ACCOUNTING TECHNICIAN

ASSOCIATE DEGREE PROGRAM

BUSINESS ACCOUNTING TECHNICIAN MAJOR – A.S. DEGREE
Twenty-eight (28.0) units require for the major.

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

I. Required courses for the major (25.0 units)

BUS	100	Practical Accounting	3.0
BUS	105	Business Office Math	3.0
BUS	169	Records Management	2.0
BUS	172	Office Procedures for the Workplace	3.0
BUS	180	Microsoft Office Suite for the Workplace	4.0
BUS	210**	Principles of Financial Accounting	4.0
BUS	240	Computer Accounting	3.0
CIS	125	EXCEL II	1.0
WE	201*	Employment Readiness	1.0
WE	220*	Internship	1.0

I. S elect One course from the following (3.0 units)

BUS	063	Essentials in Workplace Communication	3.0
BUS	164	Microsoft Word for the Workplace	3.0

* *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.*

III. Keyboarding skill level 40 nwpm. (BUS 154, Beginning Keyboarding and Document Formatting and BUS 156, Keyboarding: Speed and Accuracy, may be helpful in obtaining this skill level.)

Total Major Units **28.0**

CERTIFICATE PROGRAM

BUSINESS ACCOUNTING TECHNICIAN CERTIFICATE
Twenty-eight (28.0) units require for the certificate.

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

I. Required courses for the certificate (25.0 units)

BUS	100	Practical Accounting	3.0
BUS	105	Business Office Math	3.0
BUS	169	Records Management	2.0
BUS	172	Office Procedures for the Workplace	3.0
BUS	180	Microsoft Office Suite for the Workplace	4.0
BUS	210**	Principles of Financial Accounting	4.0
BUS	240	Computer Accounting	3.0
CIS	125	EXCEL II	1.0
WE	201*	Employment Readiness	1.0
WE	220*	Internship	1.0

I. S elect One course from the following (3.0 units)

BUS	063	Essentials in Workplace Communication	3.0
BUS	164	Microsoft Word for the Workplace	3.0

* *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.*

III. Keyboarding skill level 40 nwpm. (BUS 154, Beginning Keyboarding and Document Formatting and BUS 156, Keyboarding: Speed and Accuracy, may be helpful in obtaining this skill level.)

Total Certificate Units **28.0**

BUSINESS ADMINISTRATION (For Transfer)

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree in Business Administration for Transfer (AS-T)

DESCRIPTION

Business administration is a broad area encompassing administration, management, marketing, finance, entrepreneurship, supervision, banking, small business, merchandising, international trade, accounting, and information systems. Study in this area explores the theories, history, principles, skills, practices, laws, ethics and technologies governing the increasingly global business environment. The American Assembly of Collegiate Schools of Business (AACSB), a national business/management program accrediting agency, stipulates that lower division course work is preparatory to a bachelor's degree. Thus, this program is designed to provide a basic overview of the subject matter.

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 this degree (AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1. Evaluate business data and reach conclusions.
2. Apply quantitative and or qualitative analysis to solve problems.
3. Communicate effectively to relevant populations.

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Accounting
- Appraiser
- Banking
- Business Entrepreneur
- Communications Analyst
- Database Specialist
- Escrow Officer
- Promotion
- Sales
- FBI Agent
- Finance
- Financial Services
- Human Resources Manager
- Loan Officer
- Public Administration
- Health Administration
- Import /Export Agent
- Information Systems Specialist
- Inspection
- Management
- Marketing
- Marketing Manager
- Merchandising Manager
- Product Manager
- Personnel Manager
- Programmer/Analyst
- Purchasing Marketing
- Real Estate
- Mortgage Broker
- Property Manager
- Real Estate Broker
- Sales Representative
- Small Business Owner
- Transportation Administration
- Utilities Administration

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TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

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BUSINESS ADMINISTRATION (For Transfer)

ASSOCIATE DEGREE PROGRAM

BUSINESS ADMINISTRATION

Associate in Science Degree in Business Administration for Transfer (AS-T) – 26.0-27.0 units

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

REQUIREMENTS FOR THE DEGREE

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. Twenty-six to twenty-seven (26-27) units required for the major.

A. Required for the Major			
BUS	126	Business and the Legal Environment	**3.0**
BUS	210	Principles of Financial Accounting	**4.0**
BUS	220	Principles of Managerial Accounting	**4.0**
ECON	101	Introduction to Micro Economics	**3.0**
ECON	102	Intro to Macro Economics	**3.0**
B. Select three/four (3-4) units from:			**3.0-4.0**
MATH	119	Elementary Statistics (4.0)	
MATH	122	Finite Mathematics (3.0)	
MATH	170	Introductory Calculus with Applications (4.0)	
C. Select six (6) units from:			**6.0**
CIS	101	Introduction to Information Systems (3.0)	
BUS	124	Introduction to Business (3.0)	
or			
BUS	260	Business Communications (3.0)	

Total Major Units	26.0-27.0
CSU-GE or IGETC Pattern	37.0-39.0
Units that may be double counted	17.0
Electives (as needed to reach 60 CSU transferable units)	____
Total Maximum Units:	**60.0**

BUSINESS ADMINISTRATIVE ASSISTANT

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

Business Administration programs at IVC, both at the associate degree and certificate of achievement levels, prepare the student by offering courses that allow students opportunities to acquire practical skills, technical knowledge and experience in a variety of fields. The fields of study available are: Business Administration for transfer, Accounting Technician, Administrative Assistant, Financial Services, Management, Marketing and Office Technician. These programs introduce the student to the world of commercial transactions, which occur in the distribution of resources in our American economic system.

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

PROGRAM LEARNING OUTCOMES

1. Solve business-related math problems.
2. Apply effective verbal, nonverbal and written communication in a professional manner.
3. Use software to communicate effectively and solve problems.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

This program provides for the study of a wide range of subjects related to positions and careers in the modern office. The program includes the training necessary to successfully perform in the many and varied Office Technician and Administrative Assistant positions available in the job market.

- Administrative Assistant
- Office Technician
- Executive Secretary
- Administrative Manager
- Computer Applications Specialist
- Secretary
- Bookkeeper
- Receptionist
- Word Processor
- Records Manager
- Medical Office Assistant
- (see Allied Health program)

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine

www.CSUMentor.edu – CSU System Information

www.universityofcalifornia.edu/admissions/index.html - UC System Information

www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: **www.imperial.edu/students/financial-aid-and-scholarships/**

BUSINESS ADMINISTRATIVE ASSISTANT

ASSOCIATE DEGREE PROGRAM

BUSINESS ADMINISTRATIVE ASSISTANT MAJOR – A.S. DEGREE
Twenty-eight (28.0) units and skill level required for the major.

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

I. Required courses for the major (28.0 units)

BUS	105	Business Office Math	3.0
BUS	126	Business and the Legal Environment	3.0
BUS	136	Human Relations in Management	3.0
BUS	172	Office Procedures for the Workplace	3.0
BUS	180	Microsoft Office Suite for the Workplace	4.0
BUS	210**	Principles of Financial Accounting	4.0
BUS	260	Business Communications	3.0
CIS	101	Introduction to Information Systems	3.0
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. Required skill level for the major
Keyboarding skill level 50 nwpm. (BUS 154, Beginning Keyboarding and Document Formatting and BUS 156, Keyboarding: Speed and Accuracy, may be helpful in obtaining this skill level.)

Total Major Units **28.0**

CERTIFICATE PROGRAM

BUSINESS ADMINISTRATIVE ASSISTANT CERTIFICATE
Twenty-eight (28.0) units and skill level required for the certificate.

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

I. Required courses for the certificate (28.0 units)

BUS	105	Business Office Math	3.0
BUS	126	Business and the Legal Environment	3.0
BUS	136	Human Relations in Management	3.0
BUS	172	Office Procedures for the Workplace	3.0
BUS	180	Microsoft Office Suite for the Workplace	4.0
BUS	210**	Principles of Financial Accounting	4.0
BUS	260	Business Communications	3.0
CIS	101	Introduction to Information Systems	3.0
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. Required skill level for the certificate
Keyboarding skill level 50 nwpm. (BUS 154, Beginning Keyboarding and Document Formatting and BUS 156, Keyboarding: Speed and Accuracy, may be helpful in obtaining this skill level.)

Total Certificate Units **28.0**

BUSINESS MANAGEMENT

DEGREES, CERTIFICATES AND AWARDS
Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

Business Administration programs at IVC, both at the associate degree and certificate of achievement levels, prepare the student by offering courses that allow students opportunities to acquire practical skills, technical knowledge and experience in a variety of fields. The fields of study available are: Business Administration for transfer, Accounting Technician, Administrative Assistant, Financial Services, Management, Marketing and Office Technician. These programs introduce the student to the world of commercial transactions, which occur in the distribution of resources in our American economic system.

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.

PROGRAM LEARNING OUTCOMES

1. Evaluate business data and reach reasoned conclusions.
2. Show understanding of accounting information for use in decision-making, controlling, planning and directing operations.
3. Demonstrate an ability to productively work as a team member with people of diverse experiences and backgrounds.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

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The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Human Resources Manager
- Industrial Relations Manager
- Labor Negotiator
- Manpower Planning Specialist
- Personnel Analyst
- Personnel Manager
- Recruitment Manager
- Work Design Analyst
- Management Analyst
- Small Business Owner
- Banking Manager
- Management Consultant
- Information Systems Manager
- Operations Manager
- Production Manager
- Safety Manager
- Systems Manager
- Warehouse Manager
- Quality Control Manager
- Management and Business Consultant
- Organization Development Consultant
- Import/Export OperationsManager
- Management Systems Consultant

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

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http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

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BUSINESS MANAGEMENT

ASSOCIATE DEGREE PROGRAM

BUSINESS MANAGEMENT MAJOR – A.S. DEGREE
Twenty-five (25.0) units required for the major.

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

I. Required courses for the major (19.0 units)

BUS	124	Introduction to Business	3.0
BUS	126	Business and the Legal Environment	3.0
BUS	132	Business Management	3.0
BUS	210	Principles of Financial Accounting	4.0
BUS	260	Business Communications	3.0
CIS	101	Introduction to Information Systems	3.0

II. Acceptable courses for the major (minimum of 6.0 units from the following courses)

BUS	063	Essentials in Workplace Communication (3.0)
BUS	100	Practical Accounting (3.0)
BUS	120	Retail Management (3.0)
BUS	134	Management Concepts of Supervision (3.0)
BUS	136	Human Relations in Management (3.0)
BUS	144	Principals of Marketing (3.0)
BUS	145	Human Resources Management (3.0)
BUS	148	Personal Finance (3.0)
BUS	220	Principles of Managerial Accounting (4.0)
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)

Total Major Units **25.0**

CERTIFICATE PROGRAM

BUSINESS MANAGEMENT CERTIFICATE
Twenty-five (25.0) units required for the certificate.

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

I. Required courses for the certificate (19.0 units)

BUS	124	Introduction to Business	3.0
BUS	126	Business and the Legal Environment	3.0
BUS	132	Business Management	3.0
BUS	210	Principles 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 6.0 units from the following courses)

BUS	063	Essentials in Workplace Communication (3.0)
BUS	100	Practical Accounting (3.0)
BUS	120	Retail Management (3.0)
BUS	134	Management Concepts of Supervision (3.0)
BUS	136	Human Relations in Management (3.0)
BUS	144	Principals of Marketing (3.0)
BUS	145	Human Resources Management (3.0)
BUS	148	Personal Finance (3.0)
BUS	220	Principles of Managerial Accounting (4.0)
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)

Total Certificate Units **25.0**

BUSINESS OFFICE TECHNICIAN

DEGREES, CERTIFICATES AND AWARDS
Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

Business Administration programs at IVC, both at the associate degree and certificate of achievement levels, prepare the student by offering courses that allow students opportunities to acquire practical skills, technical knowledge and experience in a variety of fields. The fields of study available are: Business Administration for transfer, Accounting Technician, Administrative Assistant, Financial Services, Management, Marketing and Office Technician. These programs introduce the student to the world of commercial transactions, which occur in the distribution of resources in our American economic system.

This program provides students with entry level competencies for employment in an office environment with the latest technology applications. Students will become team players, communicators, leaders, and self-starters with a high level of organizational skills and confidence. Interpersonal and analytical skills will not only help students do well in the workplace, but also provide possible career advancement opportunities.

PROGRAM LEARNING OUTCOMES

1. Solve business-related math problems.
2. Design and create business documents using Microsoft Office Suite.
3. Apply accurate written, verbal and nonverbal techniques in order to communicate effectively.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

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The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

This program provides for the study of a wide range of subjects related to positions and careers in the modern office. The program includes the training necessary to successfully perform in the many and varied Office Technician and Administrative Assistant positions available in the job market.

- Administrative Assistant
- Office Technician
- Executive Secretary
- Administrative Manager
- Computer Applications Specialist
- Secretary
- Bookkeeper
- Receptionist
- Word Processor
- Records Manager
- Medical Office Assistant (See Allied Health program)

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

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www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

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BUSINESS OFFICE TECHNICIAN

ASSOCIATE DEGREE PROGRAM

BUSINESS OFFICE TECHNICIAN MAJOR – A.S. DEGREE
Twenty-nine (29.0) units and skill level required for the major.

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

I. Required courses for the major (29.0 units)

BUS	059	Practical English for the Workplace	3.0
BUS	061	Business English	3.0
BUS	063	Essentials in Workplace Communication	3.0
BUS	105	Business Office Math	3.0
BUS	164	Microsoft Word for the Workplace	3.0
BUS	169	Records Management	2.0
BUS	172	Office Procedures for the Workplace	3.0
BUS	180	Microsoft Office Suite for the Workplace	4.0
BUS	260	Business Communications	3.0
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.*

III. Required skill level for the major

Keyboarding skill level 40 nwpm. (BUS 154, Beginning Keyboarding and Document Formatting and BUS 156, Keyboarding: Speed & Accuracy, may be helpful in obtaining this skill level.)

Total Major Units **29.0**

CERTIFICATE PROGRAM

BUSINESS OFFICE TECHNICIAN CERTIFICATE
Twenty-six (26.0) units and skill level required for the certificate.

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

I. Required courses for the certificate (26.0 units)

BUS	059	Practical English for the Workplace	3.0
BUS	061	Business English	3.0
BUS	063	Essentials in Workplace Communication	3.0
BUS	105	Business Office Math	3.0
BUS	164	Microsoft Word for the Workplace	3.0
BUS	169	Records Management	2.0
BUS	172	Office Procedures for the Workplace	3.0
BUS	180	Microsoft Office Suite for the Workplace	4.0
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.*

III. Required skill level for the certificate

Keyboarding skill level 40 nwpm. (BUS 154, Beginning Keyboarding and Document Formatting and BUS 156, Keyboarding: Speed & Accuracy, may be helpful in obtaining this skill level.)

Total Certificate Units **26.0**

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

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION

Students transferring to the California State University system have the opportunity to complete their lower division general education requirements at Imperial Valley College (IVC). This pattern of general education consists of 39 semester units. Earning a CSU/GE-Breadth Certificate of Achievement will enable IVC to officially acknowledge the significant educational achievement the student has completed at IVC. For specific course identification that clear the CSU/GE-Breadth requirements for each section please see a Counselor for assistance.

CSU/GE-Breadth is separated into 5 separate academic areas. Each area requires a specific unit/course requirement(s). A grade of "C" or better for each course used to satisfy the CSU/GE-Breadth requirements is required. It is recommended, and at some CSU's required, that the CSU/GE-Breadth be completed in its entirety prior to transfer. Students who do not complete the entire program before transfer could be subject to the general education requirements of the campus or college to which they transfer.

PROGRAM LEARNING OUTCOMES

1. See GE Program Outcomes/Course Alignment Grid at **www.imperial.edu/faculty-and-staff/campus-committess/student-learning-outcomes/**

CERTIFICATE OF ACHIEVEMENT PROGRAM

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

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FINANCIAL AID

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

CERTIFICATE PROGRAM

CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION BREADTH (CSU GE-B) CERTIFICATE
Students must complete a minimum of 39 semester units used to satisfy the CSU GE-B requirements.

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

CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION BREATH (CSU GE-B) REQUIREMENTS **For specific course identification that clear the CSU GE-B requirements for each section, please see a Counselor for assistance.**	
AREA A – ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING (9 semester or 12/15 quarter units)	**Minimum Units Required Per Area**
Area A1: Oral Communication (3 semester/4 quarter units)	3
Area A2: Written Communication (3 semester/4 quarter units)	3
Area A3: Critical Thinking (3 semester/4 quarter units)	3
AREA B – SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING **Minimum: 9 semester or 12/15 quarter units with at least one lab course from either area.**	
Area B1: Physical Science – One course required	3
Area B2: Life Science – One course required	3
Area B3: Laboratory Activity – One Course required (see Area B1 and B2 for a laboratory course)	
Area B4: Mathematics/Quantitative Reasoning – One Course required	3
AREA C – ARTS AND HUMANITIES - Nine (9) semester or 12/15 quarter units **Three (3) courses, with at least one course from the Arts and one Course from the Humanities. The third course from either area.**	
Area C1: Arts; **Area C2**: Humanities; and, one more course from either Area C1 or C2.	9
AREA D – AMERICAN INSTITUTIONS (AI) AND SOCIAL SCIENCE (Areas D0 thru D9) **Nine (9) semester or 12/15 quarter units.** **A least three courses from at least two (2) academic disciplines.**	
Area AI/D6 (US-2/US-3): Political Science (POLS) 102	3
Area AI/DI (US-1): History (HIST) 120 or 121	3
Area D: Human Social, Political and Economic Institutions and Behavior – One course required	3
AREA E – LIFELONG UNDERSTANDING AND SELF-DEVELOPMENT **One Course (3 semester/4 quarter units)**	
Area E: Understanding and Self Development	3
TOTAL MINIMUM UNITS REQUIRED	**39**

NOTE - CSU/GE Certification: Earning this Certificate of Achievement will not replace the CSU/GE Certification document. The "certification" of CSU General Education Breadth is a separate process. The student must request CSU/GE Certification at the time he/she requests a final IVC transcript to be sent to the CSU or other school he/she plans on attending.

CHILD DEVELOPMENT

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement
Specialization Certificates: Administration, Children with Special Needs, Infant/Toddler, and School Age

DESCRIPTION

Child Development is the study of the physical, socio-emotional and cognitive growth and development of the child from infancy through adolescence. The Child Development program provides an educational and practical foundation for students interested in working with children. In addition to theoretical principles, the curriculum offers practical skills and on-site training that will prepare students for employment in the field of education. The program leads to an associate's degree in Child Development, a certificate for the position of Associate Teacher, and specialization certificates in Administration, Children with Special Needs, Infant/Toddler, School Age. The program also fulfills the required child development course work for the state issued Child Development Permit. Information regarding this permit and/or the Child Development certificate is available from the Child, Family and Consumer Sciences Department.

PROGRAM LEARNING OUTCOMES

1. Exhibit grounding in a child development knowledge base.
2. Demonstrate knowledge in building relationships with children, family and community.
3. Observe, document, and assess to support young children and families.
4. Demonstrate developmentally effective approaches to create positive relationships and supportive interactions as the foundation in working with children and families from diverse societies.
5. Use content knowledge to build meaningful curriculum.
6. Demonstrate Professionalism.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

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CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities and may require additional education beyond the baccalaureate degree.

- Adoption Counselor
- Child Advocate
- Child Care Coordinator
- Camp Counselor
- Child Life Specialist
- Children's Hospital Worker
- Child Life Specialist
- Child Psychologist
- Early Childhood Teacher/Administrator
- Early Childhood Special Education Specialist
- Family Child Care Provider
- Home Based Educator
- Marriage/Family Counselor
- Music/Art Therapist
- Pediatric Psychologist
- School-Age Care Provider
- Social Worker
- Special Education Assistant
- Special Education Teacher
- Before/After School Teacher/Director
- Child Development Specialist
- Community College Instructor
- Consultant to Educational Toy Producers
- Distributor of Educational Toys
- Early Childhood Instructional Aide
- Elementary School Teacher
- Employer-Sponsored Child Care Teacher/Director
- Infant Day Care Teacher/Director
- K-12 Instructional Assistant
- Parent/Adult Education Instructor
- Planned Parenthood Worker
- Playground/Environment Designer
- Preschool Teacher or Administrator
- Resource and Referral Coordinator

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TRANSFER PREPARATION

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FINANCIAL AID

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CHILD DEVELOPMENT

ASSOCIATE DEGREE PROGRAM

CHILD DEVELOPMENT MAJOR – A.S. DEGREE
Thirty to Thirty One (30.0 - 31.0) units required for the major.

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

I. Required Courses for the major (26.0 units)

CDEV	100	Principles & Practices of Teaching Young Children	3.0
CDEV	101	Health, Safety and Nutrition	3.0
CDEV	102	First Aid & CPR for Teachers of Young Children	1.0
CDEV	103	Children, Family and Community	3.0
CDEV/PSY	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	4.0

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

CDEV	120	Language & Literature for Early Childhood (2.0)
CDEV	121	Art for Young Children (2.0)
CDEV	122	Science and Math for Early Childhood (2.0)
CDEV	123	Music & Movement for Early Childhood (2.0)
CDEV	124	Creative Cooking for Children (2.0)
CDEV	125	Multilingual & Multicultural Curriculum for Young Children (3.0)

Total Major Units **30.0-31.0**

CERTIFICATE PROGRAM

CHILD DEVELOPMENT ASSOCIATE TEACHER
Sixteen (16.0) units required for the certificate.

The Child Development Associate Teacher Certificate of Achievement is designed for students who are interested in working with young children as preschool associate teachers, daycare providers, and other child development careers in early childhood. The Early Childhood Associate Teacher Certificate provides students with a background of knowledge and skills in child growth and development. The certificate meets the requirements for the Child Development Permit Matrix: Associate Teacher Permit, requiring 12 units in early childhood, first aid and CPR, and the additional courses required by most child care providers for employment, totaling 16 units.

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

PROGRAM LEARNING OUTCOMES

1. Describe and apply principles of cognitive, physical, and social emotional development for young children birth to adolescence.
2. Identify components of quality early childhood programs.
3. Assist in the planning and implementation of developmentally appropriate activities and environmental design.
4. Observe and document children's development in partnership with families for positive influence on children's development.

I. Required Courses for the certificate

CDEV	101	Health, Safety and Nutrition	3.0
CDEV	102	First Aid and CPR for Teachers of Young Children	1.0
CDEV	103	Children, Family and Community	3.0
CDEV/PSY	104	Child Growth and Development	3.0
CDEV	105	Introduction to Curriculum	3.0
CDEV	106	Observation and Assessment	3.0

Note: To be eligible for the State of California Child Development Permit; Associate Teacher students must complete the following experience requirements: fifty (50) days of three or more hours per day within two years.

Total Certificate Units **16.0**

CHILD DEVELOPMENT

SPECIALIZATION CERTIFICATES
The Specialization Certificate(s) demonstrates a completion of coursework in addition to the major in Child Development.

ALL COURSES FOR THESE CERTIFICATES MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

CHILD DEVELOPMENT ADMINISTRATION SPECIALIZATION - Major Plus 9.0 Units
The Administration Specialization Certificate is a certificate demonstrating a completion of specialized course work above the major in the area of Administration. This specialization certificate will prepare students to supervise and manage early childhood programs.

PROGRAM LEARNING OUTCOMES

1 Prioritize, organize and manage the logistics of an early Care and Education program including; staff training, evaluation, budget, and community relations.

2 Supervise staff, assistants, aids, and teachers in an early care and education setting.

3 Create a developmentally appropriate learning environment for children in an early care and education setting.

4 Assess the development of children for the purposes of curriculum planning and implementation.

5 Recognize, integrate and value the individualized needs of the diverse children and their families.

I. The major plus nine (9.0) additional units in Administration

CDEV	210	Administration and Supervision	3.0
CDEV	211	Advanced Management Functions	3.0
CDEV	212	Adult Supervision in Child Development Programs	3.0

Total Major Units	30.0-31.0
Child Development Administration Specialization Units	9.0
Total Certificate Units:	**39.0-40.0**

CHILD DEVELOPMENT CHILDREN WITH SPECIAL NEEDS SPECIALIZATION – Major Plus 6.0 Units
The Child Development Certificate with Specialization in Special Needs focuses on professional preparation for employment with children with special needs and their families in a variety of early childhood settings. Emphasis will be placed on early intervention, curriculum strategies, screening and assessment tools, laws affecting special education and collaboration with families and professionals.

PROGRAM LEARNING OUTCOMES

1 Students will be prepared for employment in early intervention programs, inclusive early childhood programs, and early special education programs in a variety of early childhood settings.

2 Students will recognize various exceptionalities and conditions of children and identify interventions and curriculum strategies.

3 Students will gain knowledge in special education laws both federal and state, and regulations impacting care and education of children with special needs.

I. The major plus six (6.0) units in Associate Teacher course work.

CDEV	240	Introduction to Children with Special Needs	3.0
CDEV	241	Curriculum and Strategies for Children with Special Needs	3.0

Total Major Units	30.0-31.0
Child Development Children with Special Needs Specialization Units	6.0
Total Certificate Units:	**36.0-37.0**

CHILD DEVELOPMENT

SPECIALIZATION CERTIFICATES
The Specialization Certificate(s) demonstrates a completion of coursework in addition to the major in Child Development.

ALL COURSES FOR THESE CERTIFICATES MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

CHILD DEVELOPMENT INFANT/TODDLER SPECIALIZATION – Major Plus 6.0 Units
The Infant/Toddler Specialization Certificate is a certificate demonstrating a completion of specialized coursework above the major in Infant/Toddler studies. This certificate will also meet the requirements for the specialization field in applying for the Master Teacher Permit.

PROGRAM LEARNING OUTCOMES

1 Recognize the importance of infancy as a unique time in children's development that requires specialized developmentally appropriate activities, routines, interactions, and guidance.

2 Distinguish the unique needs of children less than three years from older children in areas ofhealth, safety, environmental design, curriculum, and social emotional development.

3 Understands the importance of establishing positive child, family, and provider relationships.

I. The major plus six (6.0) units in Infant/Toddler course work.

CDEV	220	Infant/Toddler Development	3.0
CDEV	221	Infant/Toddler Curriculum	3.0

Total Major Units	30.0-31.0
Child Development Infant/Toddler Specialization Units	6.0
Total Certificate Units:	**36.0-37.0**

CHILD DEVELOPMENT SCHOOL-AGE SPECIALIZATION CERTIFICATE – Major Plus 6.0 Units
The School-Age Specialization Certificate is a certificate demonstrating a completion of specialized course work above the major in working with school-age children. This certificate will also meet the requirements for the specialization field in applying for the Master Teacher Permit.

PROGRAM LEARNING OUTCOMES

1. Create appropriate environments for a variety of before and after-school programs, and full day programs.

2. Demonstrate respectful and positive interactions that value diverse children and families.

3. Demonstrate positive guidance strategies that promote self discipline and positive interactions among peers.

I. The major plus six (6.0) units in School-Age course work.

CDEV	230	School-Age Development	3.0
CDEV	231	School-Age Curriculum	3.0

Total Major Units	30.0-31.0
Child Development School-Age Specialization Units	6.0
Total Certificate Units:	**36.0-37.0**

CISCO CCNA DISCOVERY

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION

The Cisco CCNA Discovery program provides general networking theory, practical experience, soft-skills development, and opportunities for career exploration. It teaches networking based on application, covering networking concepts within the context of network environments students may encounter in their daily lives -- from small office and home office (SOHO) networking to more complex enterprise and theoretical networking models later in the curriculum. The program prepares students for two different Cisco certification exams. After completing the program, students will be prepared to take the industry-standard Cisco CCNA certification exam. In addition, students may opt to take the CCENT certification as a first step toward earning the CCNA certification. CCENT certifies the practical skills required for entry-level information and communication technology skills and demonstrates a student's aptitude and competence to work in an environment that features Cisco networking devices and software.

The Cisco CCNA Discovery curriculum is primarily designed for students who are seeking entry-level information and communication technology skills for positions such as network administrator, network engineer, network technician, computer technicians, network installer, and help desk technician.

PROGRAM LEARNING OUTCOMES

1. Demonstrate aptitude and competence for working with Cisco routers, switches and Cisco IOS.
2. Show the practical skills required for associate-level networking support positions.
3. Demonstrate skills necessary to pass two different Cisco certification exams, CCENT or CCNA.

CERTIFICATE OF ACHIEVEMENT PROGRAM

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Programmer
- Applications Programmer
- Systems Programmer
- Information Specialist
- Programmer Analyst
- Software Engineer
- Systems Analyst
- Systems Integrator
- Project Manager
- Computing Applications Specialist
- Web Developer
- Web Designer
- Webmaster
- Data Administrator
- Database Administrator
- Database Manager
- Database Operator
- Database Programmer
- Computer Technician
- Network Technician
- Network Administrator
- System Administrator
- System Operator
- System Manager
- Help Desk Technician
- Computing Support Specialist
- Applications Specialist

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

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www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

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CISCO CCNA DISCOVERY

CERTIFICATE PROGRAM

CISCO CCNA DISCOVERY CERTIFICATE
Fourteen to seventeen (14.0-17.0) units required for the certificate.

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

I. Required courses for the certificate (14.0-17.0 units)

CIS	160	CISCO IT Essentials: Hardware and Software	4.0
CIS	162	CISCO CCNA Discovery 1: Introduction to Networks	4.0
CIS	163	CISCO CCNA Discovery 2: Routing and Switching Essentials	4.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0-4.0

Total Certificate Units **14.0-17.0**

COMMUNICATION STUDIES (For Transfer)

DEGREES, CERTIFICATES AND AWARDS

Associate in Arts Degree in Communication Studies for Transfer (AA-T)

DESCRIPTION

Communication Studies is a broad-based discipline concerned with the exchange of messages in interpersonal and mediated situations and with the impact of such exchanges on society. Courses focus on understanding the communication process and developing skills to communicate effectively. This associate's degree will also provide the student with the knowledge base in analytical, critical and practical skills that will help students to understand and improve communications practices and systems as they occur within and among individuals, groups, organizations and societies.

The Associate in Arts 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 (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1. Students will be able to construct and articulate a basic case for a parliamentary debate.
2. Students will be able to recognize and avoid using ten logical fallacies during classroom presentations.
3. Students will be able to write and submit five properly-worded debate propositions.

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Community Relations Director
- Organizational Trainer
- Organizational Newsletter Editor
- Public Information Specialist
- Media Technician
- Organizational Consultant
- Personnel Staff
- Public Service Agency Staff
- Corporate Media Director
- Communication Consultant
- Public Relations Professional
- Video Editor
- Video Producer or Director
- Health Educator
- Fund Raiser
- Multimedia Project Manager
- Community College Instructor
- Lobbyist
- Speech Writer
- Minister
- Lawyer
- Politician
- Consumer Market Researcher
- Staff Analyst
- Focus Group Leader
- Political Campaign Staff
- Public Affairs Director
- Advertising Account Executive
- Organizational Trainer and Developer
- Media Sales and Promotion Staff

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TRANSFER PREPARATION

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COMMUNICATION STUDIES (For Transfer)

ASSOCIATE DEGREE PROGRAM

COMMUNICATION STUDIES

Associate in Arts Degree in Communication Studies for Transfer (AA-T) – 18.0-19.0 units

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

REQUIREMENTS FOR THE DEGREE

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. Eighteen to nineteen (18 -19) units required for the major.

Required for the Major

COMM	100	Oral Communication	**3.0**
A. Select six (6) units from:			**6.0**
COMM	125	Interpersonal Communication (3.0)	
COMM	130	Small Group Communication (3.0)	
COMM	180	Argumentation and Debate (3.0)	
B. Select six to seven (6.0-7.0) units from:			**6.0-7.0**
**Any Section A course not used above*			
**Any course that has articulation as lower division preparation for the communication studies major at a CSU.*			
COMM	150	Intercultural Communication (3.0)	
ENGL	102	Introduction to Literature (3.0)	
ENGL	201	Advanced Composition (3.0)	
HIST	110	Early Western Civilization (3.0)	
HIST	111	Modern Western Civilization (3.0)	
JRN	100	Introduction to Journalism (3.0)	
MATH	119	Elementary Statistics (4.0)	
PSY	144	The Psychology of Interpersonal Relationships (3.0)	
C. Select three (3) units from:			**3.0**
**Any Section A or B course not used above*			
ANTH	102	Cultural Anthropology (3.0)	
PSY	101	Introduction to Psychology (3.0)	
SOC	101	Introduction to Sociology (3.0)	

Total Major Units	18.0-19.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	____
Total Maximum Units:	**60.0**

COMPUTER INFORMATION SYSTEMS

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)

DESCRIPTION

Computer Information Systems are the tools that facilitate the effective and efficient transformation of data into information. Careers in today's information systems require knowledge and hands-on experience in microcomputer applications, programming, operating systems, and networking. 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. The program in Computer Information Systems offers students an opportunity to earn an associate's degree as well as coursework in general CIS electives for students in other fields of study campus-wide.

PROGRAM LEARNING OUTCOMES

1. Evaluate and interpret business and computer data and reach reasoned conclusions.
2. Communicate effectively to relevant populations.
3. Create computer programs using a program language that incorporates good design principles and meets specifications.

ASSOCIATE DEGREE PROGRAM

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Programmer
- Applications Programmer
- Systems Programmer
- Information Specialist
- Programmer Analyst
- Software Engineer
- Systems Analyst
- Systems Integrator
- Project Manager
- Computing Applications Specialist
- Web Developer
- Web Designer
- Webmaster
- Data Administrator
- Database Administrator
- Database Manager
- Database Operator
- Database Programmer
- Computer Technician
- Computing Support Specialist
- Network Technician
- Network Administrator
- System Administrator
- System Operator
- System Manager
- Help Desk Technician
- Applications Specialist

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COMPUTER INFORMATION SYSTEMS

ASSOCIATE DEGREE PROGRAM

COMPUTER INFORMATION SYSTEMS MAJOR – A.S. DEGREE
Thirty (30.0) units required for the major.

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

I. Required courses for the major (21.0 units)

BUS	126	Business and the Legal Environment	3.0
BUS	210	Principles of Financial Accounting	4.0
BUS	220	Principles of Managerial Accounting	4.0
CIS	101	Introduction to Information Systems	3.0
CIS	125	Excel II	1.0
ECON	101	Introduction to Micro Economics	3.0
ECON	102	Introduction to Macro Economics	3.0

Select six (6.0) programming units:

CIS	202*	Programming in Visual Basic (3.0)
CIS	210*	Programming in C++ (3.0)
CS	170*	Introduction to Unix/Linux (3.0)
CS	221*	Introduction to Object-Oriented Programming in Java (3.0)

II. Select at least three (3.0) elective units:

BUS	240	Computer Accounting (3.0)
BUS	260	Business Communications (3.0)
CIS	104	Introduction to Telecommunications (3.0)
CIS	124	Excel I (1.0)
CIS	128	Microsoft Access (1.0)
CIS	137	Web Development Tools (3.0)
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	Web Development Programming (3.0)
CIS	214	PHP and MySQL (3.0)
CS	170*	Introduction to Unix/Linux (3.0)
CS	221*	Introduction to Object-Oriented Programming in Java (3.0)
WE	201	Employment Readiness (1.0)
WE	220	Internship (1.0-4.0)

**If not used for section I. programming units.*

Total Major Units **30.0**

COMPUTER SCIENCE (For Transfer)

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree in Computer Science for Transfer (AS-T)

DESCRIPTION

Computer Science is the study of computer software design, development, and programming. Computer scientists seek to advance the fundamental understanding of how information is processed, as well as the practical design of software and hardware to accomplish specific functions.

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 this degree (AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1. Manage a programming project from start to finish, both individually and in teams.
2. Think critically and utilize qualitative and quantitative reasoning skills to design and implement an effective problem solution.
3. Apply algorithmic and symbolic thinking to the problem-solving process.

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Systems Programmer
- Software Designer
- Computer Researcher
- Systems Administrator
- Security Systems Designer
- Database Programmer
- Consultant
- Educator
- Computer Scientist
- Computer Systems Analyst
- Technical Representative
- Teleprocessing Coordinator
- Data Processing Application
- Programmer
- Database Administrator
- Data Processing Manager
- Information Specialist
- Programmer Analyst
- Software Engineer
- Systems Manager
- Systems Programmer
- Technical Control Specialist
- Engineer Security Specialist
- Data Mining Analyst
- Documentation/Technical Writer
- Technical Sales and Marketing Specialist
- Scientific Application Programmer
- Computer Services Coordinator
- Computer Graphics Specialist
- Technical Product Support Personnel
- Management Information Specialist
- Computer Operations Manager
- Data Communications Manager

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

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FINANCIAL AID

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COMPUTER SCIENCE (For Transfer)

ASSOCIATE DEGREE PROGRAM

COMPUTER SCIENCE
Associate in Science Degree in Computer Science for Transfer (AS-T) – 28.0 units

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

REQUIREMENTS FOR THE DEGREE

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. Twenty-eight (28) units required for the major

Required for the Major

CS	221	Introduction to Object Oriented Programming in Java	3.0
CS	231	Introduction to Data Structures	3.0
CS	281	Assembly Language and Machine Organization	3.0
MATH	192	Analytic Geometry and Calculus I	4.0
MATH	194	Analytic Geometry and Calculus II	4.0
MATH	240	Discrete Mathematics	3.0
PHYS	200	General Physics I	4.0
PHYS	202	General Physics II	4.0

Total Major Units	28.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	
Total Maximum Units:	**60.0**

CORRECTIONAL SCIENCE

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

The Correctional Science program offers an Associate in Science Degree and a Certificate of Achievement. The program provides the foundational education required for an individual's career entry into the criminal justice field, specifically correctional operations and probation/parole case investigations. The courses range from concepts of criminal law, evidence, investigation and reporting to criminology, aspects of social change, and corrections investigations.

PROGRAM LEARNING OUTCOMES

1. Identify the basic concepts between Probation and Parole and the role they play in the criminal justice arena.
2. Identify the methods used and the purposes of institutional safety and how it relates to the structure and organization of inmate control and supervision.
3. Identify the various kinds of interventions available and the techniques used in the industry.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Of the career opportunities identified some will usually require the completion of degree requirements at 4-year colleges and universities.

- Correctional Officer
- Security Guard

Related Career Opportunities

- Fire Inspectors
- Fire Investigators
- Bailiffs
- Jailors
- Police Detectives
- Transit and Railroad Police
- Criminal Investigators
- Special Agents
- Immigration Inspectors
- Customs Inspectors
- Sheriffs
- Deputy Sheriffs
- Private Detectives
- Investigators

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TRANSFER PREPARATION

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CORRECTIONAL SCIENCE

ASSOCIATE DEGREE PROGRAM

CORRECTIONAL SCIENCE MAJOR – A.S. DEGREE
Twenty-four (24.0) units required for this major.

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

I. Required courses for the major (15.0 units)

AJ	108	Public Safety Report Writing (Formerly AJ 120)	3.0
CSI	100	Introduction to Corrections	3.0
CSI	104	Concepts of Probation and Parole	3.0
CSI	206	Correctional Interviewing and Counseling (Formerly CSI 106)	3.0
CSI	208	Control and Supervision of Inmates (Formerly CSI 108)	3.0

II. Select nine (9.0) units from the following courses:

AJ	100	Introduction to Administration of Justice (3.0)
AJ	102	Concepts of Criminal Law (3.0)
AJ	110	Law Enforcement Community Relations (3.0)
AJ	141	Arrest and Firearms (3.5)
AJ	222	Criminal Investigation (Formerly AJ 122) (3.0)
AJ	223	Juvenile Control (Formerly AJ 123) (3.0)

Total Major Units **24.0**

CERTIFICATE PROGRAM

CORRECTIONAL SCIENCE CERTIFICATE
Twenty-five (25.0) units required for this certificate.

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

I. Required courses for the certificate (19.0 units)

AJ	108	Public Safety Report Writing (Formerly AJ 120)	3.0
CSI	100	Introduction to Corrections	3.0
CSI	104	Concepts of Probation and Parole	3.0
CSI	206	Correctional Interviewing and Counseling (Formerly CSI 106)	3.0
CSI	208	Control and Supervision of Inmates (Formerly CSI 108)	3.0
ENGL	110	Composition and Reading	4.0

II. Select six (6.0) units from the following courses:

AJ	100	Introduction to Administration of Justice (3.0)
AJ	102	Concepts of Criminal Law (3.0)
AJ	110	Law Enforcement Community Relations (3.0)
AJ	141	Arrest and Firearms (3.5)
AJ	222	Criminal Investigation (Formerly AJ 122) (3.0)
AJ	223	Juvenile Control (Formerly AJ 123) (3.0)

Total Certificate Units **25.0**

DIESEL FARM MACHINERY AND HEAVY EQUIPMENT

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION

This Certificate program is designed to prepare students for employment positions in the field of diesel technology. In this program, students will be maintaining, servicing, and repairing: agricultural hydraulic equipment, construction machines, train locomotive engines, farm tractors, stationary diesel engines and diesel powered highway transportation units. This program will be integrated with the automotive technology program by allowing students the opportunity to specialize in diesel and heavy equipment technology. In addition students will be able to operate diesel engines using alternative fuels such as biodiesel, compressed natural gas, liquefied natural gas, alcohols, hydrogen, and fuel cells. Upon successful completion of this diesel program, students are prepared to take the Automotive Service Excellence (ASE) Certification Exam in Diesel Engines (T2), Preventive Maintenance for tasks (T8), and Alternative Fuels (T6)

PROGRAM LEARNING OUTCOMES

1. The student will be able to demonstrate safe operation of hand tools and equipment.
2. The student will be able to identify major agricultural equipment components, construction machines and transportation units.
3. The student will be able to diagnose major component failures, recommend repairs, and perform typical major component repairs.

CERTIFICATE OF ACHIEVEMENT PROGRAM

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

- Farm Equipment Technician
- Bus Maintenance and Repair Technician
- Heavy Equipment Maintanance and Repair Technician
- Diesel Truck Maintenance and Repair Technician

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DIESEL FARM MACHINERY AND HEAVY EQUIPMENT

CERTIFICATE PROGRAM

DIESEL FARM MACHINERY AND HEAVY EQUIPMENT
Twenty (20.0) units required for the certificate.

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

I. Required courses for the certificate.

AUT	110	Engine Technology	4.0
AUT	140	Diesel Engine Maintenance and Repair	4.0
AUT	165	Diesel Preventive Maintenance and Inspection	4.0
AUT	240	Diesel Engine Tune-Up	3.0
AUT	285	Alternative Fuels for Diesel Engines	4.0
WE	201	Employment Readiness	1.0

Total Certificate Units **20.0**

DIGITAL DESIGN AND PRODUCTION

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

The Digital Design and Production program is an interdisciplinary program that combines technical knowledge with design, communication, and problem solving skills. It includes software applications that allow a student to produce multimedia and graphics for a digital world. Career paths chosen by students pursuing undergraduate studies in Digital Design and Production commonly include graphic design, web and video production. Students learn how to process information and then make this information available to audiences via electronic media. The program provides students with the entrylevel competencies for employment 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 students with the ability to freelanceor work from within small design firms to develop web pages and multimedia for small or large businesses.

PROGRAM LEARNING OUTCOMES

1. Produce and present ideas visually and apply principles of development in multimedia.
2. Demonstrate visual techniques and design web page and web layouts with appropriate software that is technically and visually sound.
3. Create digital publications that are professionally designed and modified to fit the needs of clients.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

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CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Background Artist
- Content Development
- Digital Artist
- 3D Animator
- Game Artist
- Graphics Production
- Information Architect
- Instructional Designer
- Interface Design
- Layout Design
- Production Assistant
- Product Modeling
- Product Animator
- Storyboard Artist
- Video Designer
- Video Editing
- Video Production Assistant
- Webmaster
- Web Page Designer
- Web/Multimedia Development
- Web/Multimedia Programming

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DIGITAL DESIGN AND PRODUCTION

ASSOCIATE DEGREE PROGRAM

DIGITAL DESIGN AND PRODUCTION MAJOR- A.S. DEGREE
Twenty-five/twenty-six (25.0-26.0) units for the major.

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

I.	**Required courses for the major (20.0 units)**			
	ART	160	Graphic Design	3.0
	CIS	137	Web Development Tools	3.0
	CIS	149	Computer Graphics - Photoshop	3.0
	CIS	150	Computer Graphics - Illustrator	3.0
	CIS	155	Flash	3.0
	CIS	180	Advanced Computer Graphics	3.0
	WE	201	Employment Readiness	1.0
	WE	220	Internship	1.0
II.	**Select one course from the following:**			3.0
	ART	110	Design (3.0)	
	ART	260	Advertising/Graphic Design (3.0)	
	CIS	212	Web Development Programming (3.0)	
II.	**Select one course from the following:**			2.0-3.0
	BUS	122	Business Plan Development (2.0)	
	BUS	144	Principles of Marketing (3.0)	
	BUS	260	Business Communications (3.0)	
Total Major Units				**25.0 - 26.0**

CERTIFICATE PROGRAM

DIGITAL DESIGN AND PRODUCTION CERTIFICATE
Twenty-two / Twenty-three (22.0-23.0) units for the certificate.

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

I.	**Required courses for the major (20.0 units)**			
	ART	160	Graphic Design	3.0
	CIS	137	Web Development Tools	3.0
	CIS	149	Computer Graphics - Photoshop	3.0
	CIS	150	Computer Graphics - Illustrator	3.0
	CIS	155	Flash	3.0
	CIS	180	Advanced Computer Graphics	3.0
	WE	201	Employment Readiness	1.0
	WE	220	Internship	1.0
II.	**Select one course from the following:**			3.0
	ART	110	Design (3.0)	
	ART	260	Advertising/Graphic Design (3.0)	
	BUS	122	Business Plan Development (2.0)	
	BUS	144	Principles of Marketing (3.0)	
	BUS	260	Business Communications (3.0)	
	CIS	212	Web Development Programming (3.0)	
Total Certificate Units				**22.0-23.0**

EARLY CHILDHOOD EDUCATION (For Transfer)

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree in Early Childhood Education for Transfer (AS-T)

DESCRIPTION

Early Childhood Education is the study of the physical, socio-emotional and cognitive growth and development of the child from conception through adolescence. The purpose of this major is 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 preschool teaching and administration; parent education; elementary school teaching; 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 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.

PROGRAM LEARNING OUTCOMES

1. Exhibit grounding in a child development knowledge base.
2. Demonstrate knowledge in building relationships with children, family and community.
3. Observe, document, and assess to support young children and families.
4. Demonstrate developmentally effective approaches to create positive relationships and supportive interactions as the foundation in working with children and families from diverse societies.
5. Use content knowledge to build meaningful curriculum.
6. Demonstrate Professionalism.

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Adoption Counselor
- Before and After School Teacher/Director
- Child Life Specialist
- Community College Instructor
- Counselor - Career,
- Counselor – Community
- Counselor – Marriage/Family/Child
- Counselor – School
- Early Childhood Special Education Specialist
- Elementary School Teacher
- Child Care Teacher/Director
- Infant Day Care Teacher/Director
- Parent Education Instructor
- Pediatric Psychologist
- Preschool Teacher/Administrator
- Resource and Referral Coordinator
- Social Worker

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TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

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EARLY CHILDHOOD EDUCATION (For Transfer)

ASSOCIATE DEGREE PROGRAM

EARLY CHILDHOOD EDUCATION
Associate in Science Degree in Early Childhood Education for Transfer (AS-T) – 25.0 units.

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

REQUIREMENTS FOR THE DEGREE

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 – 25.0 units**

CDEV	100	Principles & Practices of Teaching Young Children	3.0
CDEV	101	Health, Safety and Nutrition	3.0
CDEV	103	Children, Family and Community	3.0
CDEV/PSY	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	4.0

Total Major Units	25.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	
Total Maximum Units:	**60.0**

ELECTRICAL TECHNOLOGY

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement
Specialization Certificates in Electrical Wiring, Electronics, and Solar Energy

DESCRIPTION

The Electrical Technology program offers an Associate in Science degree, Certificate of Achievement and Specialization Certificates that are 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. Imperial Valley College has partial program certification from the Division of Labor Standards for Electrician Certification.

PROGRAM LEARNING OUTCOMES

1. Demonstrate knowledge of OSH safety practices required installation and repairs of electrical wiring.
2. Use written and verbal communication skills to related trade and technical information for blueprint.
3. Understand and demonstrate the necessary skills to become employed in the electrical field.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

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CAREER OPPORTUNITIES

Of the career opportunities identified some will usually require the completion of degree requirements at 4-year colleges and universities.

- Electrical Installer
- Commercial Electrical Installer
- Electrical Maintenance Technician
- Electrician
- Industrial Maintenance Electrician
- Environmental Engineer
- Solar Engineer
- Electrical Engineer
- Environmental Scientist
- Environmental Engineer

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ELECTRICAL TECHNOLOGY

ASSOCIATE DEGREE PROGRAM

ELECTRICAL TECHNOLOGY MAJOR – A.S. DEGREE
Twenty (20.0) units required for the major.

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

I. Required courses for the major (20.0 units).

BLDC	101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0
ELTR	120	Electronic Devices	4.0
ELTR	140	Electronic Circuits & Semiconductor	4.0
EWIR	110	Electrical Principles	4.0
EWIR	115	Electrical Wiring and Protection	4.0
WE	201	Employment Readiness	1.0

Total Major Units **20.0**

CERTIFICATE PROGRAM

ELECTRICAL TECHNOLOGY CERTIFICATE
Twenty (20.0) units required for the certificate.

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

I. Required courses for the certificate (20.0 units).

BLDC	101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0
ELTR	120	Electronic Devices	4.0
ELTR	140	Electronic Circuits & Semiconductor	4.0
EWIR	110	Electrical Principles	4.0
EWIR	115	Electrical Wiring and Protection	4.0
WE	201	Employment Readiness	1.0

Total Certificate Units **20.0**

ELECTRICAL TECHNOLOGY

SPECIALIZATION CERTIFICATES

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

ALL COURSES FOR THESE CERTIFICATES MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

ELECTRICAL TECHNOLOGY: ELECTRICAL WIRING SPECIALIZATION - Major Plus 9.0 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.

PROGRAM LEARNING OUTCOMES

1. Service and repair electrical appliances, overprotection devices.
2. Safety procedures to install and calculate capacities for light system, motors and transformers.
3. Internship.

I. The major plus nine (9.0) additional units in Electrical Wiring course work.

EWIR	125	Electrical Feeder Services and Circuits	4.0
EWIR	135	Electrical Equipment & Special Conditions	4.0
WE	220	Internship	1.0

Total Major Units	20.0
Electrical Technology: Electrical Wiring Specialization Units	9.0
Total Certificate Units:	**29.0**

ELECTRICAL TECHNOLOGY: ELECTRONICS SPECIALIZATION - Major Plus 7.0 Units

Specialization Certificate in Electronics 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 electronic equipment based on semiconductor devices and microchips, including data acquisition equipment and software for virtual instrumentation.

PROGRAM LEARNING OUTCOMES

1. Assembly Electronic Devices with Instrumentation Circuits.
2. Identify logic circuits used on computer and audiovisual equipment.
3. Take internship opportunities for work experience and job placement.

I. The major plus seven (7.0) additional units in Electronics course work.

ELTR	220	Digital Instrumentation Measurements	3.0
ELTR	240	Digital Logic Circuits	3.0
WE	220	Internship	1.0

Total Major Units	20.0
Electrical Technology: Electronics Specialization Units	7.0
Total Certificate Units:	**27.0**

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ELECTRICAL TRADES

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

The Electrical Trades program offers the Associate of Science degree and a Certificate of Achievement to prepare students for continued education and training in any or all of the following electrical apprenticeship programs offered through the Imperial Irrigation District (IID): Electrical, Generation Mechanic, Lineman, Meter Technician, Systems Protection Technician, ADA/Telecommunications, and Substation. The associate degree and certificate requirements are 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)**.

PROGRAM LEARNING OUTCOMES

1. Demonstrate knowledge of OSH standard safety procedures appropriate to the power utility industry. In addition, the student will use mathematical functions pertaining to 0 percentages, fractions, decimals, weights, measurements, algebraic equations, and fundamentals of geometry applicable to electrical and electronics.
2. Describe the functions and characteristic of transmission and distribution system and their components which consist of high voltage AC power, electrical diagrams, safety in the workplace, and a section on rope, rigging and hand signals.
3. Demonstrate and understand the basic introductio0n to framing, setting, guying poles, installation of conductors and grounds and the laying out and constructing of an underground line system.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Of the career opportunities identified some will usually require the completion of degree requirements at 4-year colleges and universities.

- Applications Engineer
- Apprentice
- Biomedical Engineer
- Communication Engineer
- Controls Engineer
- Computer Engineer
- Design Engineer
- Electrical Apprentice
- Electronic Engineer
- Generation Apprentice
- Mechanic Apprentice
- Lineman Apprentice
- Meter Technician Apprentice
- Project Engineer
- Product Engineer
- Product Design Engineer
- Research Engineer
- Power Engineer
- Test Engineer
- Substation Apprentice
- Systems Engineer
- ADA/Telecommunications Apprentice
- Systems Protection Technician Apprentice

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine

www.CSUMentor.edu – CSU System Information

www.universityofcalifornia.edu/admissions/index.html - UC System Information

www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: **www.imperial.edu/students/financial-aid-and-scholarships/**

ELECTRICAL TRADES

ASSOCIATE DEGREE PROGRAM

ELECTRICAL TRADES MAJOR – A.S. DEGREE
Nineteen (19.0) units required for the major.

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

I. Required courses for the major (19.0 units)

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

Total Major Units **19.0**

CERTIFICATE PROGRAM

ELECTRICAL TRADES CERTIFICATE
Nineteen (16.0) units required for the certificate.

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

I. Required courses for the certificate (19.0 units)

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

Total Certificate Units **16.0**

ELEMENTARY TEACHER EDUCATION (For Transfer)

DEGREES, CERTIFICATES AND AWARDS
Associate in Arts Degree in Elementary Teacher Education for Transfer (AA-T)

DESCRIPTION

The Associate in Arts in Elementary Teacher Education for Transfer Degree will provide the foundational knowledge to students who want to earn a Baccalaureate Degree in Liberal Studies and Integrated Teacher Education Programs. This major will provide an education experience which prepares students to think critically, write clearly and effectively, analyze evidence, and appreciate the differences between subject areas.

The Associate in Arts 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 (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1. Students will understand the historical context of elementary education, including its relationship to contemporary society and culture.
2. Students will develop a comprehensive professional portfolio for the teaching profession.

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

The Elementary Teacher Education major is specifically designed to prepare students in the multiple disciplines that teachers in the kindergarten through middle school grades must have studied. Thus it is framed for students who intend to become teachers in K-8 schools and is not recommended as a general major for those who wish to pursue a variety of career fields other than teaching.

• Elementary School Teacher • Middle School Teacher

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine

www.CSUMentor.edu – CSU System Information

www.universityofcalifornia.edu/admissions/index.html - UC System Information

www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: **www.imperial.edu/students/financial-aid-and-scholarships/**

ELEMENTARY TEACHER EDUCATION (For Transfer)

ASSOCIATE DEGREE PROGRAM

ELEMENTARY TEACHER EDUCATION

Associate in Arts Degree in Elementary Teacher Education for Transfer (AA-T)

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

REQUIREMENTS FOR THE DEGREE

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. Forty-eight to Sixty (48-60) units required for the major.

Required for the Major (42 units)

BIOL	100	Principles of Biological Science	4.0
CDEV/PSY	104	Child Growth and Development	3.0
COMM	100	Oral Communication	3.0
EDUC	200	Introduction to Elementary Classroom Teaching	3.0
ENGL	102	Introduction to Literature	3.0
ENGL	110	Composition and Reading	4.0
GEOG	108	World Regional Geography	3.0
GEOL	100	General Geology	4.0
GEOL	110	Earth and Space Science	3.0
HIST	100	Early World History	3.0
HIST	120	United States History: Prehistory to Reconstruction	3.0
MATH	110	Number Systems in Elementary Mathematics	3.0
POLS	102	American Government and Politics	3.0

List A: Select one course (3 units)

ENGL	201	Advanced Composition	3.0
READ	111	Reading IV: Analytical and Critical Reading	3.0

List B: Select one course (3 units)

ART	102	History of Art II	3.0
MUS	102	Introduction to Music Literature and Listening	3.0
THEA	100	Introduction to Theatre	3.0

List C: (0-12 additional units)

HE	102	Health Education	3.0
MATH	112	Geometry in Elementary Mathematics	3.0
MATH	114	Children's Mathematical Thinking	1.0
MUS	100	Introduction to Music	3.0
PE	211	Physical Education in the Elementary School	3.0

Total Major Units	48.0-60.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	
Total Maximum Units:	**60.0**

EMERGENCY MEDICAL SERVICES

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

The Associate's Degree and Certificate of Achievement 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, high school diploma or GED, approval by the EMS Faculty Coordinator and the EMS Medical Director, current EMT certificate with at least one (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 Department for more specifics

PROGRAM LEARNING OUTCOMES

1. Students meet or exceed pass rates set for national licensing exam (National Registry).
2. Students meet or exceed pass rates set for national licensing skills exam (National Registry).
3. Students meet the minimal certification standards for ACLS, PALS, and BLS Instructor.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

The Emergency Medical Services Associate Degree and/or Certificate of Achievement prepares the student to apply for and qualify for licensure as a Paramedic (EPT-P) and to care for the sick and injured at the scene of an emergency and/or during transport to a healthcare facility.

- Paramedic

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

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www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

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EMERGENCY MEDICAL SERVICES

ASSOCIATE DEGREE PROGRAM

EMERGENCY MEDICAL SERVICES MAJOR - A.S. DEGREE
Thirty-nine and one-half (39.5) units are required for this major.

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, high school diploma or GED, approval by the EMS Faculty Coordinator and the EMS Medical Director, current EMT certificate with at least one (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 Department for more specifics.

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

I. Prerequisites for the major (7.5 units)

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

II. Required courses for the major (39.5 units)

EMTP	200	Introduction to Advanced Prehospital Care - Paramedic	9.0
EMTP	202	Trauma Emergencies - Paramedic	3.5
EMTP	204	Medical Emergencies - Paramedic	6.0
EMTP	206	Emergency Medical Services Operations - Paramedic	5.5
EMTP	225	EMT- Paramedic Clinical 1	3.5
EMTP	235	EMT- Paramedic Field 1	6.5
EMTP	245	EMT- Paramedic Field 2	5.5

Total Major Units **39.5**

CERTIFICATE PROGRAM

EMERGENCY MEDICAL SERVICES CERTIFICATE
Thirty-nine and one-half (39.5) units required for the certificate.

The certificate program 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, high school diploma or GED, approval by the EMS Faculty Coordinator and the EMS Medical Director, current certification as an EMT certificate with at least one (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 Department for more specifics.

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

I. Prerequisites for the major (7.5 units)

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

II. Required courses for the major (39.5 units)

EMTP	200	Introduction to Advanced Prehospital Care - Paramedic	9.0
EMTP	202	Trauma Emergencies - Paramedic	3.5
EMTP	204	Medical Emergencies - Paramedic	6.0
EMTP	206	Emergency Medical Services Operations - Paramedic	5.5
EMTP	225	EMT- Paramedic Clinical 1	3.5
EMTP	235	EMT- Paramedic Field 1	6.5
EMTP	245	EMT- Paramedic Field 2	5.5

Total Certificate Units **39.5**

ENERGY EFFICIENCY TECHNOLOGY

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

The Energy Efficiency Technology Associate in Science Degree and Certificate are designed to provide instruction in manipulative skills, technical knowledge, and technical information from the Building Performance Institute, which will prepare the student for employment in energy efficiency, home performance and energy auditing with emphasis in green building retrofits. The course work for the associate degree also emphasizes subject areas that are significant to the construction worker such as building sciences, environmental sciences, and the development of analytical and communication skills through the general education requirements.

PROGRAM LEARNING OUTCOMES

1. Calculate the quantities of air leakage in cubic feet per minute using the following formula.
2. Create a reliable cost estimate for insulating an attic with loose fill insulation based on square footage.
3. Students will perform a duct blaster test to determine leakage of a system.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Of the career opportunities identified some will usually require the completion of degree requirements at 4-year colleges and universities. Green Careers also exist in fields such as Hydrology (Water), Solar, Geo-Science, Ecology, Wind Energy, Infrastructure/Green Building, Atmospheric Science and Geothermal.

- Green Architect
- Business Development
- Construction
- Technician
- Engineering
- Energy Auditor/Designer
- Installer
- Solar Energy Engineer
- Manager
- Marketing
- Sales
- Field Services Technician
- Finance
- Energy Optimization Specialist
- Energy & Environmental Specialist
- Energy and Utilities Consultant

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine

www.CSUMentor.edu – CSU System Information

www.universityofcalifornia.edu/admissions/index.html - UC System Information

www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

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ENERGY EFFICIENCY TECHNOLOGY

ASSOCIATE DEGREE PROGRAM

ENERGY EFFICIENCY TECHNOLOGY MAJOR – A.S. DEGREE
Twenty-four (24.0) units are required for this major.

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

I. Required courses for the major (24.0 units)

BLDC	101	Safety Standards (Cal/OSHA) 30-Hour Cards	3.0
BLDC	110	Construction Blueprints, Specifications, Measurements and Codes	3.0
BLDC	115	Energy Fundamentals	3.0
BLDC	155	Solar Thermal and Water Efficiency	3.0
BLDC	170	Essentials of Efficient Green Construction	3.0
BLDC	175	Home Performance Retrofits	3.0
ENVS/AG	110	Environmental Science	3.0
RNEW	150	Solar Energy Systems PV1	3.0

Total Major Units **24.0**

CERTIFICATE PROGRAM

ENERGY EFFICIENCY TECHNOLOGY CERTIFICATE
Twenty-four (24.0) units are required for this certificate.

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

I. Required courses for the certificate (24.0 units)

BLDC	101	Safety Standards (Cal/OSHA) 30-Hour Cards	3.0
BLDC	110	Construction Blueprints, Specifications, Measurements and Codes	3.0
BLDC	115	Energy Fundamentals	3.0
BLDC	155	Solar Thermal and Water Efficiency	3.0
BLDC	170	Essentials of Efficient Green Construction	3.0
BLDC	175	Home Performance Retrofits	3.0
ENVS/AG	110	Environmental Science	3.0
RNEW	150	Solar Energy Systems PV1	3.0

Total Certificate Units **24.0**

ENGLISH (For Transfer)

DEGREES, CERTIFICATES AND AWARDS
Associate in Arts Degree in English for Transfer (AA-T)

DESCRIPTION

English is an academic discipline focusing on the development of language skills through composition, critical thinking, and the study of literature of the English language and of literature in translation as it bears upon British or American literature. It also embraces the study of linguistics, expository and creative writing and critical and analytical reading. A major in English equips the student with a wide variety of intellectual skills and correlated career opportunities.

The Associate in Arts 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 (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1. Demonstrate command of rules regarding plagiarism and academic ethics.
2. Explicate and evaluate textual material in literature and rhetoric.
3. Produce an effective research paper using logical reasoning and analysis.

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Advertising Researcher
- Civil Servant
- Technical Writer
- Contract Specialist
- Journalist
- Business Administrator
- Diplomat
- Information Specialist
- Interpreter
- Librarian
- Methods Analyst
- Public Relations
- Editor/Evaluator
- Insurance Examiner
- Lawyer
- Writer
- Lexicographer
- Manager
- Program Developer
- Publisher
- Teacher
- Writing Consultant
- Advertising Person
- Arts Program Administrator
- Business Administrator
- Columnist/Journalist
- Creative Writer
- Drama/Film Critic
- Film/TV Scriptwriter
- Legislative Assistant
- Public Relations Person
- Researcher

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TRANSFER PREPARATION

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ENGLISH (For Transfer)

ASSOCIATE DEGREE PROGRAM

ENGLISH
Associate in Arts Degree in English for Transfer (AA-T) – 18.0 units

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

REQUIREMENTS FOR THE DEGREE

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. Eighteen (18) units required for the major.

A. Required for the Major

ENGL	102	Introduction to Literature	**3.0**
ENGL	201	Advanced Composition	**3.0**

B. Select six (6) units from: **6.0**

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 British Literature I (3.0)
ENGL	225	Survey of British Literature II (3.0)

C. Select three (3) units from: **3.0**

**Any course from Section B (above) not already used or any English course that has articulation as lower division preparation for the English major at a CSU.*

ENGL	226	Introduction to Mythology (3.0)
or		
HUM	226	Introduction to Mythology (3.0)
ENGL	250	Creative Writing (3.0)

D. Select a minimum of three (3) units from: **3.0**

**Any course from Section B or C (above) not already used, any CSU transferable English course, any language courses other than English which is articulated to fulfill CSU GE Area C, or any CSU transferable literature course offered in another department. Foreign Lanugage - See Transfer Institution*

BUS	260	Business Communications (3.0)
ENGL	270	Introduction to Linguistics (3.0)
FILM	230	Introduction to Film History and Criticism (3.0)
HUM	100	Intro to the Humanities (3.0)
THEA	100	Introduction to Theatre (3.0)

Total Major Units	18.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	____
Total Maximum Units:	**60.0**

FIRE TECHNOLOGY

DEGREES, CERTIFICATES AND AWARDS
Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

Fire Technology involves the study of fire behavior, protection and control techniques, including the understanding of the environment and ecology systems involved. The Fire Technology program is designed to prepare students for entry-level status in public or private fire protection agencies, to survey career options and opportunities, and to upgrade fire personnel.

PROGRAM LEARNING OUTCOMES

1. Students will be able to apply emergency incident management strategies in relationship to incident command systems in public and private fire protection careers.
2. Students will demonstrate management concepts and practices including decision making, leader styles, personnel evaluations & counseling techniques. Assessment: Exams and reports for FIRE 229.
3. Demonstrate knowledge of the different types of non-water based fire suppression systems and how each is used to extinguish fire.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

- City and County Fire Department Personnel
- Forestry Fire Control

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TRANSFER PREPARATION

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FINANCIAL AID

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FIRE TECHNOLOGY

ASSOCIATE DEGREE PROGRAM

FIRE TECHNOLOGY MAJOR – A.S. DEGREE
Thirty-three (33.0) units are required for this major.

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

I. Required courses for the major (18.0 units)

FIRE	100	Fire Protection Organization	3.0
FIRE	101	Fire Prevention Technology	3.0
FIRE	102	Fire Protection Equipment & Systems	3.0
FIRE	103	Building Construction for the Fire Protection	3.0
FIRE	104	Fire Behavior and Combustion	3.0
FIRE	108	Fire & Emergency Services Safety and Survival	3.0

II. Select 15.0 units from the following acceptable courses for the major

AJ	108*	Public Safety Report Writing (3.0)
CIS	101	Introduction to Information Systems (3.0)
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	231**	Incident Command System (ICS 300) (1.5)
FIRE	240**	Training Instructor 1A (1.5)

* *Recommended – AJ 108, EMT 105, and FIRE 109*

** *FOR FIRE 220 – 242: Core courses required. Fire Fighter II and/or experience requirement as mandated by State Fire Training Course Information and Required Materials Manual, California Department of Forestry and Fire Protection, May 2008.*

Total Major Units **33.0**

FIRE TECHNOLOGY

CERTIFICATE PROGRAM

FIRE TECHNOLOGY CERTIFICATE
Thirty-three (33.0) units are required for this 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 COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

I. Required courses for the certificate (18.0 units)

FIRE	100	Fire Protection Organization	3.0
FIRE	101	Fire Prevention Technology	3.0
FIRE	102	Fire Protection Equipment & Systems	3.0
FIRE	103	Building Construction for the Fire Protection	3.0
FIRE	104	Fire Behavior and Combustion	3.0
FIRE	108	Fire & Emergency Services Safety and Survival	3.0

II. Select 15.0 units from the following acceptable courses for the certificate

AJ	108*	Public Safety Report Writing	3.0
CIS	101	Introduction to Information Systems	3.0
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	231**	Incident Command System (ICS 300)	1.5
FIRE	240**	Training Instructor 1A	1.5

* *Recommended – AJ 108, EMT 105, and FIRE 109*

** *FOR FIRE 220 – 242: Core courses required. Fire Fighter II and/or experience requirement as mandated by State Fire Training Course Information and Required Materials Manual, California Department of Forestry and Fire Protection, May 2008.*

Total Certificate Units **33.0**

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FIREFIGHTER I

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION

The Firefighter I Certificate of Achievement program will cover the principles, precedures, and techniques of firefighting and rescue. Technical and manipulative skills and concepts of fire control, fire behavior, tactics and strategy, and emergency management will be reviewed and put into practice during this program. The student will be trained according to the standards of the Office of State Fire Marshall (OSFM) and National Fire Protection Association (NFPA). Students completing this certificate program will be qualified to test for employment with agencies and departments hiring entry level firefighters.

PROGRAM LEARNING OUTCOMES

1. Students will demonstrate knowledge and appropriate use of fire equipment for a given firefighting scenario.
2. Students will demonstrate appropriate selection and implementation of firefighting methods and application of the Incident Command and Emergency Management Systems.
3. Students will demonstrate knowledge of the Unified Command system and use of its branches and divisions.

CERTIFICATE OF ACHIEVEMENT PROGRAM

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

FINANCIAL AID

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CAREER OPPORTUNITIES

- City and County Fire Department Personnel
- Forestry Fire Control

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FIREFIGHTER I

CERTIFICATE PROGRAM

FIREFIGHTER I CERTIFICATE
Twenty-two and one-half (22.5) units required for the certificate.

Successful completion of this certificate will meet the educational requirements for a California State FireMarshall Firefighter I Certificate. Upon completion of the certificate program the candidate is required to be affiliated with a fire agency for one year of parttime/volunteer or 6 months of full-time work experience as a firefighter to meet the requirement 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 COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

I. Required for the certificate (22.5 units)

FIRE	140	Fire - First Responders	9.5
FIRE	142	Firefighter Academy 1	10.0
FIRE	144	Firefighter Academy 2	3.0

Total Certificate Units **22.5**

FRENCH

DEGREES, CERTIFICATES AND AWARDS

Associate in Art Degree (A.A.)

DESCRIPTION

The French program helps prepare its majors and minors for careers not only in teaching but in many other fields as well, such as business, journalism and government service. To that end it offers courses that enable students to grow intellectually and to live and work successfully in areas where the French language is spoken.

PROGRAM LEARNING OUTCOMES

1. Acquire the ability to use French for oral understanding, speaking, reading and writing.
2. Aquire knowledge about French culture.

ASSOCIATE DEGREE PROGRAM

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

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CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Trade and Commerce
- Export/Import
- Interpreter/Translator
- Banking Representative
- Buyer/Sales Representative
- Foreign/Diplomatic Service
- International Business Personnel
- Airlines Personnel
- Travel Industry
- Media Personnel
- Foreign Correspondent
- Public Relations
- U.S. Immigration/Customs
- Foreign Publications/Textbook Editor
- U.S. Information Agency
- Peace Corps
- Language Teacher
- Bilingual/Foreign Secretary
- Research Assistant

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FRENCH

ASSOCIATE DEGREE PROGRAM

FRENCH MAJOR – A.A. DEGREE
Twenty (20.0) units required for the major.

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

I. Required courses for the major (20.0 units)

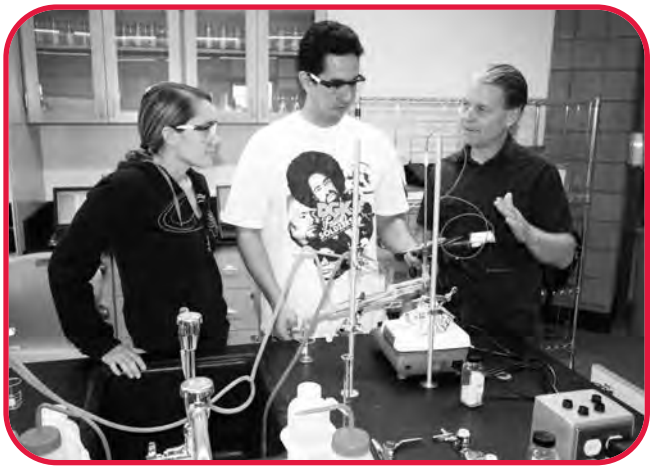
FREN	100	Elementary French I	5.0
FREN	110	Elementary French II	5.0
FREN	201	Intermediate French I	5.0
FREN	211	Intermediate French II	5.0

Total Major Units **20.0**

GENERAL SCIENCE

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)



DESCRIPTION

The Associate of Science General Sciences degree emphasizes the role of science, scientific inquiry and technology in our world. Students will apply a problem solving strategy such as the scientific method or other systematic process of inquiry and recognize the contributions of science and technology in our world. This program provides a broad study in the fields of biological and physical sciences in preparation for transfer to a four-year program and continuation of studies in upper division science courses in fields of anthropology, astronomy, biology, chemistry, environmental science, geography, geology, engineering and physics.

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. Please see a counselor for assistance.

PROGRAM LEARNING OUTCOMES

1. Demonstrate understanding of scientific inquiry. Explain and apply the scientific method.
2. Provide experimental foundation for concepts introduced during lecture. Develop quantitative and qualitative skills of data analysis and ability to observe, interpret, communicate and synthesize various types of information from diverse sources.
3. Develop an understanding and appreciation of the natural world and interactions between and among Earth's systems (biosphere, hydrosphere, atmosphere and geosphere) and beyond (exosphere).

ASSOCIATE DEGREE PROGRAM

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CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Astronomer
- Biologist
- College Teacher
- Elementary Teacher
- Secondary Teacher
- Scientific Researcher
- Lab Technician
- Field Writer
- Scientific Writer
- Chemist
- Environmentalist
- Physicist
- Geographer
- Geologist
- Engineer
- And many more!

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GENERAL SCIENCE

ASSOCIATE DEGREE PROGRAM

GENERAL SCIENCE MAJOR – A.S. DEGREE
Eighteen (18.0) units minimum required for this major.

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

I. Required for the major (18.0 units)

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

ANTH	100	Physical Anthropology	3.0
BIOL	100	Principles 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	General Biology: Molecules, Cells, and Genetics	4.0
BIOL	182	General Biology: Principles of Organismal Biology	4.0

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

ASTR	100	Principles of Astronomy	3.0
CHEM	100	Introduction to Chemistry	4.0
CHEM	160	Introduction to General, Organic & Biochemistry	5.0
ENVS/AG	110	Environmental Science	3.0
GEOG	100	Physical Geography	3.0
GEOL	100	General Geology	4.0
GEOL	110	Earth and Space Science	3.0
GEOL	130	Climate and Weather	3.0
PHSC	110	Physical Science	3.0

AREA III – Select remaining courses from the following to reach eighteen (18.0) units:

BIOL	200	Human Anatomy & Physiology I	4.0
BIOL	202	Human Anatomy & Physiology II	4.0
BIOL	204	Human Anatomy	4.0
BIOL	206	Human Physiology	4.0
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	221	Introduction to Object Oriented Programming in Java	3.0
MATH	190	Pre-Calculus	5.0
MATH	192	Analytic Geometry and Calculus I	4.0
MATH	194	Analytic Geometry and Calculus II	4.0
MATH	210	Multivariable Calculus	4.0
PHYS	200	General Physics I	4.0
PHYS	202	General Physics II	4.0
PHYS	204	General Physics III	4.0

Total Major Units **18.0**

HISTORY (For Transfer)

DEGREES, CERTIFICATES AND AWARDS
Associate in Arts Degree in History for Transfer (AA-T)

DESCRIPTION

History is the study of all human experience. It examines the people, institutions, ideas, and events of the past. The study of history contributes to cultural literacy, global awareness, and develops critical thinking skills, while helping students understand the present. Historical study provides a solid, fundamental preparation for careers in business, industry, government, and education. It also serves as excellent preparation for law school, Foreign Service, international work, urban affairs, and library science. History is an academic discipline offering both breadth and focus. While it can be valuable for those going into other professions, it also produces a person capable of handling many different jobs and positions where critical analytical skills are in demand.

The Associate in Arts 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 (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1. Display knowledge of important societies, cultures, people, and events in the history of the world, describing the causes and impacts of key historical events.
2. Identify and describe how and why different people, societies, and cultures have interacted with each other and how those interactions changed and influenced human communities in different times and places.
3. Research, evaluate, analyze, and interpret different types of historical texts and information and effectively present conclusions and results in well-crafted oral and/or written forms.

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Historian
- Pre-Law/Lawyer
- Foreign Service
- Teacher
- Archivist
- Researcher/Research Analyst
- Museum Curator
- State Park Historian
- Librarian
- Businessperson
- Writer
- Consultant
- Market Research
- Travel
- Historical Societies
- Journalist
- Communications

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HISTORY (For Transfer)

ASSOCIATE DEGREE PROGRAM

HISTORY

Associate in Arts Degree in History for Transfer (AA-T) – 18.0-20.0 units

REQUIREMENTS FOR THE DEGREE

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. Eighteen to Twenty (18-20) units required for the major.

Required for the Major (6 units)

HIST	120	United States History: Prehistory to Reconstruction	3.0
HIST	121	United States History: Reconstruction to Present	3.0

List A: Select two (6 units): **6.0**

Select one from:

HIST	100	Early World History (3.0)	

OR

HIST	110	Early Western Civilizations (3.0)	

AND

Select one from:

HIST	101	Modern Word History (3.0)	

OR

HIST	111	Modern Western Civilizations (3.0)	

List B: Select one course from each area (6-8 units): **6.0-8.0**

Area 1 (3-5 units):

AIS/ANTH	106	Indians of North America (3.0)
AIS/ANTH	108	Indians of the Southwest (3.0)
ARAB	100	Elementary Arabic (5.0)
ART	106	Women Artists (3.0)
ENGL	223	Survey of World Literature (3.0)
ENGL/HUM	226	Introduction to Mythology (3.0)
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)
FREN	230	Intermediate Conversational French I (3.0)
GEOG	108	World Regional Geography (3.0)
HIST	100*	Early World History (3.0)
HIST	101*	Modern World History (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 East from 600 (3.0)
HIST	220	Women in American History (3.0)
HIST/LAS	225	Mexican American History (3.0)
HUM/SPAN	262	Introduction to Chicano/a Studies (3.0)
POLS	106	Introduction to International Relations (3.0)
RELS	100	Religions of the Modern World (3.0)
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	220	Bilingual Spanish I (5.0)
SPAN	221	Bilingual Spanish II (5.0)
SPAN	222	Bilingual Oral Spanish (3.0)
SPAN	225	Introduction to Spanish American Literature (3.0)

HISTORY (For Transfer)

Area 2 (3 units):

ANTH	102	Cultural Anthropology (3.0)
ANTH	120	Introduction to Archaeology (3.0)
ART	100	History of Art I (3.0)
ART	102	History of Art II (3.0)
ART	104	History of Modern Art (3.0)
ECON	101	Introduction to Microeconomics (3.0)
ECON	102	Introduction to Macroeconomics (3.0)
FILM	230	Introduction to Film History and Criticism (3.0)
GEOG	102	Cultural Geography (3.0)
HIST	100*	Early World History (3.0)
HIST	101*	Modern World History (3.0)
HIST	110*	Early Western Civilizations (3.0)
HIST	111*	Modern Western Civilizations (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 East from 600 (3.0)
HIST	220*	Women in American History (3.0)
HIST	222	History of California (3.0)
HIST/LAS	225*	Mexican American History (3.0)
HUM	100	Introduction to Humanities (3.0)
HUM/SPAN	262*	Introduction to Chicano/a Studies (3.0)
PHIL	100	Introduction to Philosophy I (3.0)
PHIL	102	Introduction to Philosophy II (3.0)
POLS	100	Introduction to Political Science (3.0)
PSY	101	Introduction to Psychology (3.0)
SOC	101	Introduction to Sociology (3.0)

**If not used from List A or List B Area 1*

Total Major Units	18.0- 20.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	
Total Maximum Units:	**60.0**

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HUMANITIES

DEGREES, CERTIFICATES AND AWARDS

Associate in Arts Degree (A.A.)

DESCRIPTION

The Associate of Arts degree in Humanities is an interdisciplinary program that integrates several different academic traditions. The program offers students a rare opportunity to discover the heritage of art, culture, and learning through lectures and readings of great texts; make connections between ideas in the past and issues in the present; and improve skills in critical reading, listening, writing, and discussion.

PROGRAM LEARNING OUTCOMES

1. Student will be able to think critically in reading about topics in philosophy, religion, art and music, thereby identifying problems.
2. Demonstrate an awareness of the impact of societal expectations and behaviors on individuals and cultures.
3. Analyze, discuss and debate the impact on the development of theory and cultural practices.

ASSOCIATE DEGREE PROGRAM

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

CAREER OPPORTUNITIES

Of the career opportunities identified some will usually require the completion of degree requirements at 4-year colleges and universities.

- Banking
- Businessperson
- Communications
- Consultant
- Counseling
- Creative Writing
- Education
- Foreign Service
- Government
- Human Service Careers
- Journalist
- Law
- Librarian
- Library Science
- Literary Research
- Ministry
- Museum Work
- Pre-Law/Lawyer
- Pre-Theology/Clergy
- Publishing
- Public Relations
- Teaching
- Theology
- Travel
- Writer

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine

www.CSUMentor.edu – CSU System Information

www.universityofcalifornia.edu/admissions/index.html - UC System Information

www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: **www.imperial.edu/students/financial-aid-and-scholarships/**

HUMANITIES

ASSOCIATE DEGREE PROGRAM

HUMANITIES MAJOR – A.A. DEGREE
Twenty-four (24.0) units required for the major.

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

I. Required for the major (24.0 units)

A.	**Three (3.0) units required from the following:**			
	HUM	100	Introduction to Humanities	3.0
B.	**Must select six (6.0) units from the following:**			
	ART	100*	History of Art I	3.0
	ART	102*	History of Art II	3.0
	ART	104*	History and Appreciation of Modern Art	3.0
	ART	106*	Woman Artists	3.0
C.	**Must select six (6.0) units from the following:**			
	ART	100*	History of Art I	3.0
	ART	102*	History of Art II	3.0
	ART	104*	History and Appreciation of Modern Art	3.0
	ART	106*	Woman Artists	3.0
	ART	110	Design	3.0
	ART	120	Drawing I	3.0
	ART	262	Gallery Display	3.0
	MUS	100	Introduction to Music Foundations	3.0
	MUS	102	Introduction to Music Literature and Listening	3.0
	MUS	110	Beginning Musicianship	2.0
	MUS	120	Beginning Harmony	3.0
	MUS	156	College-Community Chorus	1.0
	MUS	171	Chamber Orchestra	1.0
	MUS	172	Community Band	1.0
	MUS	175	Instrumental Ensemble	1.0
	MUS	178	Symphony Orchestra	1.0
D.	**Must select three (3.0) units from the following:**			
	HIST	110	Early Western Civilization	3.0
	HIST	111	Modern Western Civilization	3.0
	PHIL	100	Introduction to Philosophy I	3.0
	PHIL	102	Introduction to Philosophy II	3.0
	RELS	100	Religions of the Modern World	3.0
E.	**Must select six (6.0) units from the following:**			
	AMSL	100	American Sign Language 1	4.0
	AMSL	102	American Sign Language 2	4.0
	COMM	100	Oral Communication	3.0
	COMM	110	Intermediate Public Speaking	3.0
	COMM	180	Argumentation and Debate	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
	ENGL/HUM	226	Introduction to Mythology	3.0
	FILM	230	Introduction to Film History and Criticism	3.0
	ENGL	250	Creative Writing	3.0
	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
	HUM/SPAN	262	Introduction to Chicano/a Studies	3.0
	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	220	Bilingual Spanish I	5.0
	SPAN	221	Bilingual Spanish II	5.0
	THEA	120	Fundamentals of Acting	3.0

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

Total Major Units **24.0**

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION

Completion of ALL of the requirements in the Intersegmental General Education Transfer Curriculum (IGETC) will permit a student to transfer from a community college to a campus in either the California State University (CSU) or University of California (UC) system without the need, after transfer, to take additional lower-division general education courses to satisfy campus general education requirements.

IGETC is separated into six separate academic areas. Each area requires a specific unit/course requirement(s). A grade of "C" or higher is required for each course used to satisfy IGETC requirements. It is recommended IGETC be completed in its entirety prior to transfer. Students who do not complete the entire program before transfer could be subject to the general education requirements of the campus or college to which they transfer.

PROGRAM LEARNING OUTCOMES

1. See GE Program Outcomes/Course Alignment Grid at **www.imperial.edu/faculty-and-staff/campus-committess/student-learning-outcomes/**

CERTIFICATE OF ACHIEVEMENT PROGRAM

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

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www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

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INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

CERTIFICATE PROGRAM

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) CERTIFICATE
Students must complete a minimum of 37 units used to satisfy the IGETC requirements.

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

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) For specific course identifications that clear the IGETC requirements for each section, please see a Counselor for assistance.	
AREA 1. ENGLISH COMMUNICATION CSU – Three Courses Required: One course each from Categories 1A, 1B and 1C. UC – Two Courses Required: One course each from Categories 1A and 1B. NAU – Three Courses Required: One course each from Categories 1A, 1B and 1C.	**Minimum Units Required Per Area**
1A: English Composition (3 semester/4.5 Quarter Units Minimum)	3
1B: Critical Thinking–English Composition (3 semester/4.5 Quarter Units Minimum)	3
1C: Oral Communication (3 semester/4.5 Quarter Units Minimum)	3
AREA 2. MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING One Course: 3 Semester/4.5 Quarter Units Minimum	
2A: Mathematical Concepts and Quantitative Reasoning	3
AREA 3. ARTS AND HUMANITIES – Nine (9) semester or 12/15 quarter units Three (3) courses, with at least one course from the Arts and one Course from the Humanities. The third course from either area.	
3A: Arts; 3B: Humanities+; and, 3A: Arts or 3B: Humanities+	9
AREA 4. SOCIAL AND BEHAVIORAL SCIENCES – Nine (9) semester or 12/15 quarter units Three (3) courses from at least two (2) academic areas.	9
AREA 5. PHYSICAL AND BIOLOGICAL SCIENCES – Minimum – 7/9 semester or 9/12 quarter units One Physical Science course and One Biological Science course with at least one lab course from either area to be included.	
5A Physical Science; 5B Biological Science (One course MUST have a laboratory component.)	7-9
AREA 6A: Language Other Than English (LOTE)	
Students transferring to UC are required to demonstrate competence (proficiency) in a language other than English equal to two years of high school study. Competence may be demonstrated through the following mechanism: 1) Satisfactory completion of two years of high school coursework (US high school or high school in country where the language of instruction is English) in a language other than English, with a grade of "C" or better in each course. The two years must be in the same language. 2) Satisfactory completion of a course (or courses) at a college or university with a grade of C" or better in each course. IVC courses: American Sign Language 100 or French 100 or Spanish 100 will satisfy this requirement. 3) Satisfactory completion, with "C" grades or better, of two years of formal schooling at the sixth grade-level or higher in an institution where the language of instruction is not English. Appropriate documentation must be presented to substantiate that the required coursework was completed. 4) Satisfactory score on the SAT II: Subject Test in languages other than English. 5) Satisfactory score, 3 or higher, in the College Board Advanced Placement examination in languages other than English. NOTE: The student is advised to see a counselor for assistance determining the completion of the IGETC Language Other Than English AREA 6A requirement.	

Total Certificate Units	37.0
Total Minimum Units:	**37.0**

NOTE – IGETC Certification: Earning this Certificate of Achievement will not replace the IGETC Certification document. The "certification" of IGETC is a separate process. The student must request IGETC Certification at the time he/she requests a final IVC transcript to be sent to the UC/CSU or other school he/she plans on attending.

KINESIOLOGY (For Transfer)

DEGREES, CERTIFICATES AND AWARDS

Associate in Arts Degree in Kinesiology for Transfer (AA-T)

DESCRIPTION

Kinesiology, also known as physical education, is both an activity curriculum and an academic area of study concerned with the physical and psychological aspects of human movement. Exercise, activity and sports are an important component in the development of well-rounded individuals interested in physical well-being and the productive use of leisure time.

The Associate in Arts in Kinesiology for Transfer (AA-T) is intended for students who plan to complete a bachelor's degree in a similarmajor at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1. Identify common injuries in the field of athletics and physical education, and then discuss short-term and long-term treatment plans.
2. List various occupations in the field of physical education and exercise science, and then sum marize the educational requirements for employment in each field.
3. Demonstrate skills needed to meet the minimal certification standards when performing first aid and CPR as required by either the American Red Cross (ARC) or American Heart Association (AHA).
4. Demonstrate safe and effective exercise techniques, as well as improved fitness in the four areas of exercise principles (Cardio-respiratory Endurance, Muscular Strength and Endurance, Flexibility, and Body Composition).

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Virtually all two-year career programs in business or technology fields also require a solid foundation in mathematics. Many BA/BS level careers require extensive background in Mathematics.

- Certified Athletic Trainer
- Referee
- Competitor
- Correctional Officer
- Teacher
- Exercise Test Technologist
- Coach
- Recreationand Fitness Worker
- Playground Director
- Camp Counselor
- Racquet Club Manager
- YMCA/YWCA Instructor
- Sportscaster
- Corrective Therapist
- League Manager
- Physical Therapist
- Choreographer
- Resort Sports Coordinator
- Recruiter
- Health and Safety Director
- Sports Editor
- Dance Therapist
- Recreation Specialist
- Community Center Leader
- Recreation Leader
- Scouts
- Industrial Recreation Leader
- Amusement and Recreation Attendant
- Strength Conditioning Specialist
- Sports Information Director
- Physical Therapy Assistant

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TRANSFER PREPARATION

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www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

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KINESIOLOGY (For Transfer)

ASSOCIATE DEGREE PROGRAM

KINESIOLOGY
Associate in Arts Degree in Kinesiology for Transfer (AA-T) - 21.0-23.0

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

REQUIREMENTS FOR THE DEGREE

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 - 21.0-23.0 units**

A. Required for the Major (11.0) units

PE	209	Introduction to Kinesiology	3.0
BIOL	204	Human Anatomy	4.0
BIOL	206	Human Physiology	4.0

B. Select a maximum of one (1) course from any three (3) of the following areas for a minimum of three units: 3.0

Aquatics:

PE	121	Beginning to Intermediate Swimming (1.0)
PE	142	Advanced Swimming (1.0)

Fitness:

PE	104	Weight Training (1.0)
PE	106	Walking/Jogging Fitness (1.0)
PE	111	Aerobics - Step (1.0)

Individual Sports:

PE	126 *	Tennis (1.0)
PE	127 *	Tennis - Advanced (1.0)
PE	170 *	Beginning Bowling (1.0)
PE	171 *	Intermediate Bowling (1.0)
PE	172 *	Advanced Bowling (1.0)

Team Sports:

PE	112	Basketball - Men (1.0)
PE	113	Basketball - Women (1.0)
PE	120	Softball (1.0)
PE	126 *	Tennis (1.0)
PE	127 *	Tennis - Advanced (1.0)
PE	128	Volleyball (1.0)
PE	129	Volleyball - Advanced (1.0)
PE	143	Advanced Basketball - Men (1.0)
PE	144	Advanced Basketball - Women (1.0)
PE	170 *	Beginning Bowling (1.0)
PE	171 *	Intermediate Bowling (1.0)
PE	172 *	Advanced Bowling (1.0)

C. Select two courses (7.0-9.0) units from 7.0-9.0

BIOL	100	Principles Of Biological Science (4.0)
CHEM	100	Introduction To Chemistry (4.0)
CHEM	200	General Inorganic Chemistry I (5.0)
HE	104	First Aid and CPR (3.0)
MATH	119	Elementary Statistics (4.0)
PHYS	200	General Physics I (4.0)

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

Total Major Units	21.0-23.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	_____
Total Maximum Units:	**60.0**

MATHEMATICS (For Transfer)

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree in Mathematics for Transfer (AS-T)

DESCRIPTION

Mathematics, one of the oldest disciplines, is the study of order, structure, and form for the sciences and technology. Areas of mathematics include arithmetic, algebra, geometry, calculus, and various other theoretical and applied subjects. Mathematics is the foundation for many fields of study, including biological, physical, computer, behavioral, and social sciences, as well as engineering. Students may take mathematics courses to prepare for a mathematics major, to meet prerequisites in related disciplines, or to fulfill general education requirements.

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 this degree (AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1. Students will use mathematical reasoning to solve problems and a generalized problem solving process to work word problems.
2. Students will learn mathematics through modeling real-world situations.
3. Students will use appropriate technology to enhance their mathematical thinking and understanding, solve mathematical problems, and judge the reasonableness of their results.

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Virtually all two-year career programs in business or technology fields also require a solid foundation in mathematics. Many BA/BS level careers require extensive background in Mathematics.

- Auditor
- Actuary
- Appraiser
- Assessor
- Biology/Agriculture
- Budget Analyst
- Business/Economics
- Casualty Rater
- Chemistry
- Controller
- Education
- Engineer
- Engineering Analyst
- Finance Director
- Financial Analyst
- Industry
- Investment Analyst
- Loan Officer
- Marketing/Advertising
- Mathematician
- Mathematics
- Numerical Analyst
- Operations Analyst
- Opinion Polling
- Physical Science
- Public Health
- Sociology
- Statistician
- Systems Analyst
- Tax Collector
- Teacher
- Technical Writer

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TRANSFER PREPARATION

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FINANCIAL AID

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MATHEMATICS (For Transfer)

ASSOCIATE DEGREE PROGRAM

MATHEMATICS
Associate in Science Degree in Mathematics for Transfer (AS-T) – 18.0-19.0 units

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

REQUIREMENTS FOR THE DEGREE

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. Eighteen to Nineteen (18-19) units required for the major.

A. Required for the Major			
MATH	192	Analytic Geometry and Calculus I	4.0
MATH	194	Analytic Geometry and Calculus II	4.0
MATH	210	Multivariable Calculus	4.0
B. Select one course from:			3.0
MATH	220	Elementary Differential Equations (3.0)	
MATH	230	Introduction to Linear Algebra with Applications (3.0)	
C. Select one course from:			3.0-4.0
CIS	210	Programming in C++ (3.0)	
CS	221	Introduction to Object-Oriented Programming in Java (3.0)	
CS	231	Introduction to Data Structures (3.0)	
MATH	119	Elementary Statistics (4.0)	
MATH	220 *	Elementary Differential Equations (3.0)	
MATH	230 *	Introduction to Linear Algebra with Applications (3.0)	
MATH	240	Discrete Mathematics (3.0)	
PHYS	200	General Physics I (4.0)	

**If not used for required courses under section B above.*

Total Major Units	18.0-19.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	
Total Maximum Units:	**60.0**

MEDICAL ASSISTANT

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION

The Medical Assistant program prepares people to work under the direction of physicians and registered nurses in medical offices and clinics. Students who complete the certificate in medical assistant will have the knowledge which will allow them to comprehend and communicate with medical professionals effectively and may provide enhanced employment opportunities in the field once they gain relevant job experience.

PROGRAM LEARNING OUTCOMES

1. Successfully complete front office/administrative externship with an employer assessment of student.
2. Successfully complete back office/clinical externship with an employer assessment of the student.
3. Successfully identify correct medical terminology used in patient care and procedures.

CERTIFICATE OF ACHIEVEMENT PROGRAM

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

FINANCIAL AID

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CAREER OPPORTUNITIES

- Medical Assistant

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

MEDICAL ASSISTANT

CERTIFICATE OF ACHIEVEMENT

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

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

I. Required courses for the certificate (26.5 units)

AHP	100	Medical Terminology	3.0
MA	070	Administrative Medical Assistant I	4.5
MA	072	Administrative Medical Assistant II	4.5
MA	074	Clinical Externship I	2.0
MA	080	Specimen Collection & Lab Procedures	3.5
MA	082	Exam Room Procedures	3.5
MA	084	Pharmacology & Administration	3.5
MA	086	Clinical Externship II	2.0

Total Certificate Units **26.5**

MUSIC (For Transfer)

DEGREES, CERTIFICATES AND AWARDS

Associate in Arts Degree in Music for Transfer (AA-T)

DESCRIPTION

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 foundation for graduate school for university teaching or research. This program emphasized 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.

The Associate in Arts 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 (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1. History: The student will know the stylistic and historic periods of music, and the music terminology needed to identify and understand all the elements of music.
2. Music Theory: The student will have knowledge of key signatures, evolution of harmonic development and fundamental keyboard understanding and skills.
3. Performing Skills: The student will gain performing skills in different types of repertoire from a variety of musical periods.

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

The music program is designed to promote interest and excellence in general musical knowledge and performance. The program also serves students interested in transferring to four year schools as well as offering preparation for careers in music. Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Conductor
- Soloist
- Composer
- Private Teaching
- Music Librarian
- Music Therapy
- Music Criticism
- Music Publishing
- Opera
- Accompanist
- Recreation Specialist
- Recording Industry
- Producer
- Arranger
- Copyist
- Studio Performer
- Music Education
- General Music
- Vocal Instruction
- Instrumental Instruction
- Administration
- College Teaching
- Church Music Director
- Choir Director
- Church Organist

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TRANSFER PREPARATION

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MUSIC (For Transfer)

ASSOCIATE DEGREE PROGRAM

MUSIC

Associate in Arts Degree in Music for Transfer (AA-T) – 24.0 units

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

REQUIREMENTS FOR THE DEGREE

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. Twenty-Four (24) units required for the major.

Required for the Major

MUS	110	Beginning Musicianship I	1.0
MUS	112	Beginning Musicianship II	1.0
MUS	120	Beginning Harmony I	3.0
MUS	122	Beginning Harmony II	3.0
MUS	210	Intermediate Musicianship I	1.0
MUS	212	Intermediate Musicianship II	1.0
MUS	220	Intermediate Harmony I	3.0
MUS	222	Intermediate Harmony II	3.0
MUS	163	Applied Music I	1.0
MUS	164	Applied Music II	1.0
MUS	165	Applied Music III	1.0
MUS	166	Applied Music IV	1.0

NOTE(S): *MUS 110 and 120 must be taken concurrently and the sequence followed through MUS 212 and 222*

Ensemble (4.0 units) **4.0**

Students must sign up for one performance ensemble from the following list for each semester enrolled.

MUS	156	Beginning College Chorus (1.0)
MUS	157	Intermediate College Chorus (1.0)
MUS	171	Chamber Orchestra (1.0)
MUS	172	College-Community Band (1.0)
MUS	175	Instrumental Ensemble (1.0)
MUS	177	Stage Band (1.0)
MUS	178	Symphony Orchestra (1.0)

Credit for MUS 163-166 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. 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.

If the studio instructor is also an IVC music faculty member, no other is needed.

Total Major Units	24.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	____
Total Maximum Units:	**60.0**

NURSING

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.) – Registered Nursing (R.N.)
Associate in Science Degree (A.S.) – Licensed Vocational Nurse (L.V.N.)
Certificate of Achievement - Licensed Vocational Nurse

DESCRIPTION

The Division of Health and Public Safety offers programs leading to the associate degree in Registered Nursing (R.N.) and associate degree in Licensed Vocational Nursing (L.V.N) along with an Licensed Vocational Nursing (L.V.N.) certificate.

The **Registered Nursing** program is designed to provide the education necessary for licensure eligibility and practice as a Registered Nurse (R.N.). Acceptance into the program requires successful completion of all prerequisites and successful completion of the application and selection processes.

The **Vocational Nursing Program** is designed to provide the education necessary for licensure eligibility and practice as a Licensed Vocational Nurse (L.V.N.). Acceptance into the program required successful completion of all prerequisites and successful completion 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 morespecifics.

LVN to RN Student - Advanced placement options are found in the Nursing Appendix at the end of the Imperial Valley College general catalog.

PROGRAM LEARNING OUTCOMES

Nursing - R.N. (Associate Degree)

1. Students meet or exceed pass rates set for national licensing exam (NCLEX-RN).
2. Student cohort "complete on-time" rate.
3. Students demonstrate comprehensive knowledge of registered nursing prior to exiting NURS 227.

Nursing - V.N. (Vocational)

1. Students meet or exceed pass rates set for national licensing exam (NCLEX-VN).
2. Student cohort "complete on-time" rate.
3. Students demonstrate comprehensive knowledge of vocational nursing prior to exiting VN 132.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Of the career opportunities identified below many will usually require the completion of bachelor degree requirements at 4-year colleges and universities.

- Registered Nurse (B.S.N.)
- Hospital Nurse
- Medical Nurse
- Surgical Nurse
- Emergency Room Nurse
- Operating Room Nurse
- Pediatrics Nurse
- Obstetrics Nurse
- Mental Health Nurse
- Critical Care Nurse
- Oncology Nurse
- Rehabilitation Nurse
- Community Health Nurse
- Home Health Nurse
- Vocational Nurse
- Extended Care Nurse
- Physician's Office Nurse
- Clinics and Industry Nurse
- Traveling Nurse

Advanced Practice (M.S.) roles: Clinical Nurse Specialist, Educator, Nurse Practitioner, Case Manager, and School Nurse

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NURSING

ASSOCIATE DEGREE PROGRAM

NURSING – ASSOCIATE DEGREE (R.N) MAJOR – A.S. DEGREE

Admission Requirements

1. Prerequisites for the major

• ENGL	110	Composition and Reading	4.0
• BIOL	220	General Microbiology	5.0
• BIOL	200	Human Anatomy & Physiology I	4.0
AND			
BIOL	202	Human Anatomy & Physiology II	4.0
OR			
BIOL	204	Human Anatomy	4.0
AND			
BIOL	206	Human Physiology	4.0
• SOC	101	Introduction to Sociology	3.0
OR			
ANTH	102	Cultural Anthropology	3.0
• PSY	204	Developmental Psychology: Conception to Death	3.0

- Math Competency: A score of 7006 or 2006 or higher on the ACCUPLACER™ College Level Mathematics test OR MATH 091 OR MATH 090 (Intermediate Algebra) OR an advanced level mathematics course with a grade of "C" or higher.
- Reading Competency: A placement score of 5010 or 3006 on the ACCUPLACER™ Reading Test OR ENGL 110 (Composition and Reading) OR ENGL 101 (Composition and Rhetoric) 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.

Additional Program Requirements

1. Degree Requirements

• COMM	100	Oral Communication	3.0
• PE	100	Lifetime Exercise Science	2.0
• PE		Activity Course	1.0
• Humanities Elective			3.0
• American Institution 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 "C" or "Satisfactory" or higher 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.

3. Registered Nursing Program Specific Courses:

Semester 1:

NURS	107	Nursing Fundamentals	7.0
NURS	109	Pharmacology	1.0

Semester 2:

NURS	123	Pharmacology II	1.5
NURS	127	Medical Surgical Nursing I	4.0
NURS	128	Nursing Care of the Childbearing Family	4.0

Semester 3:

NURS	218	Nursing Care of the Childrearing Family	3.5
NURS	219	Psychiatric and Mental Health Nursing *	3.0
NURS	223	Medical Surgical and Geriatric Nursing	5.0

**NURS 219 may be taken summer before or after 3rd semester*

Semester 4:

NURS	227	Medical-Surgical Nursing III/Preceptorship	8.0

*** Clinical experience may include a rotation outside of county.*

Total Nursing Units **37.0**

NURSING

ASSOCIATE DEGREE PROGRAM

NURSING – VOCATIONAL NURSING (V.N.) MAJOR – A.S. DEGREE

Admission Requirements

1. Prerequisites for the major

• AHP	100	Medical Terminology	3.0
• BIOL	200	Human Anatomy & Physiology I	4.0
AND			
BIOL	202	Human Anatomy & Physiology II	4.0
OR			
BIOL	204	Human Anatomy	4.0
AND			
BIOL	206	Human Physiology	4.0
• ENGL	110	Composition and Reading	4.0
• PSY	101	Introduction 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 BLSL/CPR Certification: Must be current.

Additional Program Requirements

1. Additional Degree Requirements

• COMM	100	Oral Communication	3.0
• PE	100	Lifetime Exercise Science	2.0
• PE		Activity Course	1.0
• Humanities Elective			3.0
• American Institution 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 "C" or "Satisfactory" or higher 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 Management & Critical Thinking	2.5
PSY	204	Developmental Psychology: 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
Semester 3:			
VN	130	Common Health Problems II	5.5
VN	132	Common Health Problems III	5.5

Total Nursing Units **41.0**

NURSING

CERTIFICATE OF ACHIEVEMENT PROGRAM

NURSING – VOCATIONAL NURSING (V.N.) CERTIFICATE

Admission Requirements

1. Prerequisites for the major

• AHP	100	Medical Terminology	3.0
• BIOL	200	Human Anatomy & Physiology I	4.0
AND			
BIOL	202	Human Anatomy & Physiology II	4.0
OR			
BIOL	204	Human Anatomy	4.0
AND			
BIOL	206	Human Physiology	4.0
• ENGL	110	Composition and Reading	4.0
• PSY	101	Introduction 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 BLSL/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 "C" or "Satisfactory" or higher 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 Management & Critical Thinking	2.5
PSY	204	Developmental Psychology: 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
Semester 3:			
VN	130	Common Health Problems II	5.5
VN	132	Common Health Problems III	5.5

Total Nursing Units **41.0**

PHARMACY TECHNICIAN

DEGREES, CERTIFICATES AND AWARDS
Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

The Pharmacy Technician program offers an Associate of Science Degree and the Certificate of Achievement which will prepare the student for the national certification exam 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 sterile solutions, counting medications, 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.

PROGRAM LEARNING OUTCOMES

1. Demonstrate knowledge of accurate calculations for oral and parenteral dosages.
2. Demonstrate knowledge of accurate medication compounding and identification of patients that need to be counseled by a licensed pharmacist.
3. Demonstrate knowledge of legal requirements related to the pharmacy technician role.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

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.

• Pharmacy Technician • Pharmacy Aide

Other workers who are employed in pharmacies, work with pharmaceutical compounds, or are involved in patient care include: Biological Scientists, Medical Scientists, Physicians and Surgeons, and Registered Nurses.

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PHARMACY TECHNICIAN

ASSOCIATE DEGREE PROGRAM

PHARMACY TECHNICIAN MAJOR – A.S. DEGREE
Eighteen and one half (18.5) units required for the major.

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

I. Required courses for the major (18.5 units)

AHP	100	Medical Terminology	3.0
PHT	108	Introduction to Pharmacy Technology	2.0
PHT	120	Pharmacy Technician Body Systems I	3.0
PHT	125	Pharmacy Technician Body Systems II	3.0
PHT	130	Calculation and Pharmacology for Pharmacy Technician	3.0
PHT	140	Pharmacy Technician Operations	4.5

Total Major Units **18.5**

CERTIFICATE PROGRAM

PHARMACY TECHNICIAN CERTIFICATE
Eighteen and one half (18.5) units required for the certificate.

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

I. Required courses for the certificate (18.5 units)

AHP	100	Medical Terminology	3.0
PHT	108	Introduction to Pharmacy Technology	2.0
PHT	120	Pharmacy Technician Body Systems I	3.0
PHT	125	Pharmacy Technician Body Systems II	3.0
PHT	130	Calculation & Pharmacology for Pharmacy Technician	3.0
PHT	140	Pharmacy Technician Operations	4.5

Total Certificate Units **18.5**

PHYSICAL EDUCATION

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)

DESCRIPTION

The Physical Education Associate of Science degree provides an educational and practical foundation for students interested in multiple professions within the area of physical education/kinesiology. Topics include introduction to physical education, care and prevention of athletic injuries, exercise leadership, first aid and CPR, psychology of coaching, nutrition, dance, fitness, and sport. Students who work closely with their counselor can use this degree to prepare for majoring in kinesiology at a four-year institution.

PROGRAM LEARNING OUTCOMES

1. List various occupations in the field of physical education and exercise science, and then summarize the educational requirements for employment in each field.
2. Identify common injuries in the field of athletics and physical education, and then discuss shortterm and long-term treatment plans.
3. Demonstrate skills needed to meet the minimal certification standards when performing first aid and CPR as required by either the American Red Cross (ARC) or American Heart Association (AHA).
4. Demonstrate safe and effective exercise techniques, as well as improved fitness in the four areas of exercise principles (Cardio-respiratory Endurance, Muscular Strength and Endurance, Flexibility, and Body Composition).

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Of the career opportunities identified some will usually require the completion of degree requirements at 4-year colleges and universities.

- Athletic Administrator
- Athletic Trainer
- Coach
- Health and Safety Director
- Health/Sport Club Manager
- Personal Trainer
- Sports Journalist
- Teacher
- Public/Private/Non-Profit Organization Recreation Director
- Resort Activities Director/Coordinator

Students earning the Associate in Science degree in Physical Education may find employment as assist level positions in the K-12 school system, the fitness industry or recreational settings.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

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http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: **www.imperial.edu/students/financial-aid-and-scholarships/**

PHYSICAL EDUCATION

ASSOCIATE DEGREE PROGRAM

PHYSICAL EDUCATION MAJOR – A.S. DEGREE
Nineteen to twenty (19.0-20.0) units required for the major.

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

I. Required courses for the major (13.0 units)

BIOL	100	Principles of Biological Science	4.0
HE	104	First Aid and CPR	3.0
PE	209	Introduction to Kinesiology	3.0
PE	219	Introduction to Athletic Training	3.0

II. Activity Requirement
Select a minimum of one course from three (3) areas for a total of four (4.0) units:

Adaptive

PE	130	Adapted Physical Exercises	1.0
PE	131	Adapted Sports	1.0

Aquatics

PE	107	Aquatic Exercise	1.0
PE	121	Beginning to Intermediate Swimming	1.0
PE	122	Lifeguard Training	2.0
PE	123	Water Safety Instructor Training	2.0
PE	142	Advanced Swimming	1.0

Fitness

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	111	Aerobics – Step	1.0

Individual/Team Sports

PE	112	Basketball – Co-Ed	1.0
PE	120	Softball	1.0
PE	126	Tennis	1.0
PE	127	Tennis – Advanced	1.0
PE	128	Volleyball	1.0
PE	129	Volleyball – Advanced	1.0
PE	143	Advanced Basketball – Men	1.0
PE	144	Advanced Basketball – Women	1.0
PE	170	Bowling – Beginning	1.0
PE	171	Bowling – Intermediate	1.0
PE	172	Bowling – Advanced	1.0

Intercollegiate Athletics

ATHL	120	Intercollegiate Cross Country and PE	3.0
ATHL	121	Out-of-Season Intercollegiate Cross Country and PE	3.0
ATHL	122	Intercollegiate Volleyball and PE	3.0
ATHL	123	Out-of-Season Intercollegiate Volleyball and PE	3.0
ATHL	124	Intercollegiate Men's Soccer and PE	3.0
ATHL	125	Out-of-Season Intercollegiate Men's Soccer and PE	3.0
ATHL	126	Intercollegiate Women's Soccer and PE	3.0
ATHL	127	Out-of-Season Intercollegiate Women's Soccer and PE	3.0
ATHL	128	Intercollegiate Men's Basketball and PE 1	3.0
ATHL	129	Intercollegiate Men's Basketball and PE 2	3.0
ATHL	130	Intercollegiate Women's Basketball and PE 1	3.0
ATHL	131	Intercollegiate Women's Basketball and PE 2	3.0
ATHL	132	Out-of-Season Intercollegiate Baseball and PE	3.0
ATHL	133	Intercollegiate Baseball and PE	3.0
ATHL	134	Out-of-Season Intercollegiate Softball and PE	3.0
ATHL	135	Intercollegiate Softball and PE	3.0
ATHL	136	Out-of-Season Intercollegiate Men's Tennis and PE	3.0
ATHL	137	Intercollegiate Men's Tennis and PE	3.0
ATHL	138	Out-of-Season Intercollegiate Women's Tennis and PE	3.0
ATHL	139	Intercollegiate Women's Tennis and PE	3.0

III. Theory/Practicum Requirement – Select one course (2.0-3.0 units):

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	211	PE in the Elementary School	3.0
PE	221	Psychology of Coaching	2.0
PE	222	Sports Officiating	3.0

Total Major Units **19.0-20.0**

PHYSICAL SCIENCE

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)

DESCRIPTION

Physical Science is a branch of science, identified as a natural science, which encompasses the study non-living systems, in contrast to the life sciences. Physical sciences are those fields of study that analyze the natural state and properties of energy paired with any non-living matter. Physics, chemistry, geology (earth science), and astronomy are physical sciences.

Physics is the "fundamental science" because the other natural sciences (biology, chemistry, geology, etc.) deal with systems that obey the laws of physics. The physical laws of matter, energy, and the forces of nature govern the interactions between particles (such as molecules, atoms, or subatomic particles).

Astronomy is a natural science that deals with the study of celestial objects (such as stars, planets, comets, nebulae, star clusters, and galaxies) and phenomena that originate outside the atmosphere of Earth. It is concerned with the evolution, physics, chemistry, meteorology, and motion of celestial objects, as well as the formation and development of the universe. Astronomy is one of the oldest sciences.

Chemistry, built upon physical concepts, addresses phenomena associated with the structure, and composition of matter and the changes it undergoes. Often known as the central science, chemistry connects the fundamental laws of physics to engineering and other natural sciences such as biology, earth science, astronomy and material science.

Earth Science is the science of the planet Earth, the only known life-bearing planet. Its studies include some of the following: Oceanography, Geology, Weather, Soil Science, Physical Geography, etc.

PROGRAM LEARNING OUTCOMES

1. Be able to observe repeatable physical interactions, collect data and apply the scientific method to identify their physical origins.
2. Demonstrate, in a clear and concise manner, how to analyze and solve problems and to evaluate and test the correctness of the proposed solution.
3. Demonstrate a proficiency in their oral and written communications of their scientific work and ideas in group and/or laboratory exercises.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

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CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities. A strong mathematical background is required.

- Engineer
- Science Educator
- Chemist
- Geologist
- Agriculturist
- Scientific Computer Programmer
- Geographer
- Meteorologist
- Technical Writer
- Research Physicist
- Applied Physicist
- Telescope Operator
- Astronaut
- Space Engineer
- Space Scientist

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TRANSFER PREPARATION

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http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

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PHYSICAL SCIENCE

ASSOCIATE DEGREE PROGRAM

PHYSICAL SCIENCE MAJOR – A.S. DEGREE
Thirty-Five (35.0) units required for the major.

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

I. Thirty (30.0) units required:

CHEM	200	General Inorganic Chemistry I	5.0
CHEM	202	General Inorganic Chemistry II	5.0
MATH	192	Analytic Geometry and Calculus I	4.0
MATH	194	Analytic Geometry and Calculus II	4.0
PHYS	200	Principles of Physics I	4.0
PHYS	202	Principles of Physics II	4.0
PHYS	204	Principles of Physics III	4.0

II. Five (5.0) 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)
GEOL	130	Climate and Weather (3.0)
MATH	119	Elementary Statistics (4.0)
MATH	210	Multivariable Calculus (4.0)
MATH	220	Elem Differential Equations (3.0)
MATH	230	Intro to Linear Algebra w/Appl (3.0)
PHSC	110	Physical Science (3.0)

Total Major Units **35.0**

POLITICAL SCIENCE (For Transfer)

DEGREES, CERTIFICATES AND AWARDS
Associate in Arts Degree in Political Science for Transfer (AA-T)

DESCRIPTION

Political Science, or Government, is the study of the acquisition and use of public power and authority. Politics and government affect everyone's life and impinge on activities in many fields. The introductory courses are for the student interested in learning about American Government and different political cultures in the world. The political science major is especially desirable for students who might work for civil government at any level, be commissioned as military officers or who intend to become lawyers. A major and/or minor in political science at a four-year institution is useful in such fields as economics, history, journalism and language or for those who hope to become executives in law enforcement or in many types of businesses.

The Associate in Arts 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 (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1. Use critical thinking skills to develop an understanding of the international community.
2. Develop an appreciation and understanding of the american politial system from historical, political, economic, and social perspectives.
3. Develop an understanding of the world's major political ideologies to include liberalism, socialism, communism, and conservatism.

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Administrative Analyst
- Budget Analyst
- Administrative Aide
- Administrator
- Administrative Assistant
- Lobbyist
- Personnel Manager
- Attorney
- Foreign Service Officer
- Campaign Aide
- Occupational Analyst
- Elected Official
- Government Worker
- Legislative Aide
- Political Economist
- Military Officer
- Public Information Officer
- Political Scientist
- Foreign Trade Specialist
- City Planner
- Public Relations Specialist
- Staff Member
- Public Opinion Surveyor

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

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POLITICAL SCIENCE (For Transfer)

ASSOCIATE DEGREE PROGRAM

POLITICAL SCIENCE

Associate in Arts Degree in Political Science for Transfer (AA-T) – 18.0-19.0 units

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

REQUIREMENTS FOR THE DEGREE

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. Eighteen (18) units required for the major.

A. Required for the Major

POLS	102	American Government & Politics	**3.0**

B. Select a minimum of nine to ten (9-10) units from: **9.0-10.0**

POLS	100	Introduction to Political Science (3.0)
POLS	104	Comparative Politics (3.0)
POLS	106	Introduction to International Relations (3.0)
MATH	119	Elementary Statistics (4.0)

C. Select six (6) units from: **6.0**

Any courses not selected above, any CSU transferable political science courses, and/or other courses that are articulated as lower division preparation for the political science major at a CSU, or any CSU transferable introductory course in the social sciences (i.e., articulated as filling CSU GE Area D.)

ANTH	102	Cultural Anthropology (3.0)
ECON	101	Introduction to Micro Economics (3.0)
ECON	102	Intro to Macro Economics (3.0)
GEOG	102	Cultural Geography (3.0)
HIST	100	Early World History (3.0)
or		
HIST	101	Modern World History (3.0)
HIST	110	Early Western Civilization (3.0)
or		
HIST	111	Modern Western Civilization (3.0)

Total Major Units	18.0-19.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	____
Total Maximum Units:	**60.0**

PRE-ENGINEERING

DEGREES, CERTIFICATES AND AWARDS
Associate in Science Degree (A.S.)

DESCRIPTION

The IVC Pre-Engineering program provides a foundation of mathematics, chemistry and physics courses necessary to transfer to a four-year institution and complete a bachelor's degree in engineering. Students should consult the institution to which they wish to transfer for specific lower division requirements.

People working in the field of engineering and related technical fields "bridge the gap" between scientific principles and the application of these principles to the needs of society. An engineer uses experience and judgment, as well as advanced training in engineering, science, and mathematics, to formulate ideas and designs, and to determine standards, specifications, work orders and schedules so that projects can be economically beneficial to mankind. Engineering offers diverse and exciting job opportunities for people with mathematical, scientific, and technical skills.

PROGRAM LEARNING OUTCOMES

1. Have a working knowledge of the theories and principles of physics in the areas of Newtonian mechanics, gravitation, electricity and magnetism, wave motion and physical optics.
2. Be acquainted with standard methods of mathematical analysis including trigonometry and analytic geometry, differential and integral calculus, matrices and linear algebra, and the solutions to differential equations.
3. Can use the computer to store and process technical data, to access information remotely over the internet, and as a computational tool related to the engineering process.

ASSOCIATE DEGREE PROGRAM

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

CAREER OPPORTUNITIES

Of the career opportunities identified, many will require the completion of bachelor's degree requirements at 4-year colleges and universities. Career options include:

Aerospace Engineer	Civil Engineer	Structural Engineer
Electrical Engineer	Computer Engineer	
Environmental Engineer	Mechanical Engineer	

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TRANSFER PREPARATION

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PRE-ENGINEERING

ASSOCIATE DEGREE PROGRAM

PRE-ENGINEERING – A.S. DEGREE
Twenty-seven (27.0) units required for the major.

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

I.	**Sixteen (16.0) units required:**			
	CHEM	200	General Inorganic Chemistry I	5.0
	ENGR	210	Statics	3.0
	MATH	210	Multivariable Calculus	4.0
	PHYS	200	Principles of Physics I	4.0
II.	**Three (3.0) units selected from:**			**3.0**
	MATH	220*	Elementary Differential Equations (3.0)	
	MATH	230*	Introduction to Linear Algebra w/Applications (3.0)	
III.	**Three (3.0) units selected from:**			**3.0**
	ENGR	212*	Dynamics (3.0)	
	ENGR	240*	Electronic Circuit Analysis (3.0)	
IV.	**Five (5.0) units selected from**			**5.0**
	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	221	Introduction to Object-Oriented Programming in Java (3.0)	
	ENGR	212*	Dynamics (3.0)	
	ENGR	240*	Electronic Circuit Analysis (3.0)	
	MATH	119	Elementary Statistics (4.0)	
	MATH	220*	Elementary Differential Equations (3.0)	
	MATH	230*	Introduction to Linear Algebra w/Applications (3.0)	
	PHYS	202	Principles of Physics II (4.0)	
	PHYS	204	Principles of Physics III (4.0)	

** If not used for required courses under sections II. or III. above.*

Total Major Units **27.0**

PSYCHOLOGY (For Transfer)

DEGREES, CERTIFICATES AND AWARDS

Associate in Arts Degree in Psychology for Transfer (AA-T)

DESCRIPTION

The Psychology program at IVC is designed to benefit both the student pursuing a career in psychology or related disciplines as well as the student desiring to acquire a personal understanding of psychology as it applies to everyday living. Psychology is the scientific study of human behavior and mental processes. It is a broad discipline which involves both pure and practical application of scientific principles as they apply to human development and adjustment. Although professional level positions require a graduate degree, BA holders find satisfying careers in a growing number of fields.

The Associate in Arts 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 (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1. Demonstrate understanding and analyze the major theoretical perspectives, historical trends, and current research in psychology.
2. Demonstrate an understanding of the interaction of the biological basis of behavior, cognition and emotion with the environmental basis for behavior, cognition and emotion.
3. Demonstrate critical thinking by applying psychological theory and the scientific approach, to understanding and solving diverse personal and social issues related to behavior and/or cognition.

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Psychiatric Aide
- Social Services Director
- Survey Designer
- Mental Health Worker
- Sports Psychologist
- Space Psychologist
- Forensic Psychologist
- Employment Counselor
- Outreach Worker
- Human Factors Specialist
- Student Affairs Officer
- Probation Officer
- Research Director
- Social Research Trainee
- Drug Abuse Counselor
- Training Officer
- Personnel Analyst
- Psychometrist
- Administrator
- Therapist
- University Professor
- Mental Health Worker
- Drug Abuse Counselor
- Career Counselor
- Behavior Analyst
- Training Specialist
- Research Analyst
- Research Technician
- Personnel Management Specialist
- Public Health Statistician Trainee
- Community College Instructor
- Marriage and Family Therapist
- Marriage, Family, Child Counselor
- Community College Counselor
- Test Validation and Development Specialist
- Personnel Analyst/Manager

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine

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www.universityofcalifornia.edu/admissions/index.html - UC System Information

www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

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PSYCHOLOGY (For Transfer)

ASSOCIATE DEGREE PROGRAM

PSYCHOLOGY
Associate in Arts Degree in Psychology for Transfer (AA-T) – 19.0-20.0 units

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

REQUIREMENTS FOR THE DEGREE

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. Nineteen-Twenty (19-20) units required for the major.

Required for the Major (10 units)

PSY	214	Statistical Methods in Behavioral Sciences	4.0
OR			
MATH	119	Elementary Statistics (4.0)	
PSY	101	Introduction to Psychology	3.0
PSY	212	Research Methods in Psychology	3.0
List A: Select one (3-4 units):			**3.0-4.0**
BIOL	100	Principles of Biological Science (4.0)	
BIOL	180	General Biology: Molecules, Cells and Genetics (4.0)	
PSY	200	Biological Psychology (3.0)	
List B: Select one (3 units):			**3.0-4.0**
Any course from List A not already used.			
PSY	202	Learning (3.0)	
List C: Select one (3 units):			**3.0**
Any course from List A or B not already used.			
PSY	204	Developmental Psych: Conception to Death (3.0)	
PSY/SOC	206	Social Psychology (3.0)	
PSY	208	Abnormal Psychology (3.0)	

Total Major Units	19.0-20.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	
Total Maximum Units:	**60.0**

SOCIAL SCIENCE

DEGREES, CERTIFICATES AND AWARDS

Associate in Art Degree (A.A.)

DESCRIPTION

The Social Science major is presented with course offerings in American Indian Studies, Anthropology, Economics, Geography, History, Latino/Latina Studies, Political Science, Sociology and Religious Studies. It serves as a knowledge base for the social sciences subject areas and provides subject matter preparation for pursuit of the bachelor's degree at a four-year institution that can lead to the Single Subject Teaching Credential in Social Science.

PROGRAM LEARNING OUTCOMES

1. Demonstrate clear and effective writing about a specified social science concentration of study.
2. Demonstrate clear and effective oral communication about a specified social science concentration of study.
3. Relate knowledge associated with a specified social science concentration of study to global and indigenous perspectives.

ASSOCIATE DEGREE PROGRAM

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Business
- College Professor
- Community Service
- Economist
- Geographer
- Graduate School
- High School Teacher
- Government and Civil Service
- Historian
- Human Relations
- Journalist
- Middle School Teacher
- Military Service
- Law Enforcement
- Lawyer
- Lobbyist
- Personnel Specialist
- Politian
- Public Relations
- Sociologist

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

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FINANCIAL AID

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SOCIAL SCIENCE

ASSOCIATE DEGREE PROGRAM

SOCIAL SCIENCE MAJOR – A.A. DEGREE

Required courses for the major (18.0 units).

The requirements for a major in Social Science may be satisfied by completing eighteen (18.0) units from the following list of courses with grades of "C' or better. At least one course must be taken from four of the following nine fields.

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

American Indian Studies			
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	106	Indians in North America	3.0
ANTH/AIS	108	Indians of the Southwest	3.0
ANTH	120	Introduction to Archaeology	3.0
Economics			
ECON	101	Intro to Microeconomics	3.0
ECON	102	Intro to Microeconomics	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 History: Prehistory to Reconstruction	3.0
HIST	121	United States History: Reconstruction to Present	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	Woman in American History	3.0
HIST	222	History of California	3.0
HIST/LAS	225	Mexican American History	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	Introduction to Political Science	3.0
POLS	102	American Government and Politics	3.0
POLS	104	Comparative Politics	3.0
POLS	106	Introduction to International Relations	3.0
Religious Studies			
RELS	100	Religions of the Modern World	3.0
Sociology			
SOC	101	Introduction to Sociology	3.0
SOC	102	Contemporary Social Problems	3.0
Total Major Units			**18.0**

SOCIOLOGY (For Transfer)

DEGREES, CERTIFICATES AND AWARDS

Associate in Arts Degree in Sociology for Transfer (AA-T)

DESCRIPTION

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 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 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 (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1 Demonstrate an understanding of how social structures (families, schools, churches, laws) influence day to day experiences of individuals.

2 Demonstrate the ability to find information, assess evidence and evaluate arguments in empirical studies.

3 Demonstrate the ability to be able to find empirical studies and assess the evidence in those studies.

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- 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

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

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http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

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SOCIOLOGY (For Transfer)

ASSOCIATE DEGREE PROGRAM

SOCIOLOGY
Associate in Arts Degree in Sociology for Transfer (AA-T) – 18.0-19.0 units

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

REQUIREMENTS FOR THE DEGREE

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	**3.0**
B. Select six/seven (6-7) units from:			**6.0-7.0**
* SOC	102	Contemporary Social Problems (3.0)	
* MATH	119	Elementary Statistics (4.0)	
OR			
* PSY	214	Statistical Methods in Behavioral Sciences (4.0)	
* PSY	212	Research Methods in Psychology (3.0)	
C. Select six (6) units from:			**6.0**
* SOC	110	Marriage and the Family (3.0)	
* SOC/AJ	224	Criminology (Formerly SOC/AJ 124) (3.0)	
* SOC/ADS	150	Sociology of Minority Groups (3.0)	
* SOC/PSY	206	Social Psychology (3.0)	
D. Select three (3) units from the following:			**3.0**
ANTH	102	Cultural Anthropology (3.0)	
GEOG	102	Cultural Geography (3.0)	
* MATH	119	Elementary Statistics (4.0)	
OR			
* PSY	214	Statistical Methods in Behavioral Sciences (4.0)	
PSY	101	Introduction to Psychology (3.0)	
* PSY	212	Research Methods in Psychology (3.0)	
* SOC	102	Contemporary Social Problems (3.0)	
* SOC	110	Marriage and the Family (3.0)	
* SOC/AJ	224	Criminology (Formerly SOC/AJ 124) (3.0)	
* SOC/ADS	150	Sociology of Minority Groups (3.0)	
* SOC/PSY	206	Social Psychology (3.0)	

** If not used for required courses under sections B or C, above.*

Total Major Units	18.0-19.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	
Total Maximum Units:	**60.0**

SPANISH (For Transfer)

DEGREES, CERTIFICATES AND AWARDS
Associate in Art Degree in Spanish for Transfer (AA-T)

DESCRIPTION

The Spanish for Transfer Degree Program offers courses that serve as a foundation for broad liberal education. It serves as preparation for a career in education, and as supplementary preparation for many careers in diverse areas such as emergency services, the legal and medical professions, social work, business, Foreign Service, public relations, journalism, translation and interpretation. The program provides a linguistic and grammatical study of the language and an in-depth look into the culture of Spanish Speaking countries.

PROGRAM LEARNING OUTCOMES

1. Analyze and evaluate literary texts through writing.
2. Successfully identify and differentiate between verb tenses in the subjunctive mood.

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Banking Representative
- Buyer/Sales Representative
- Civil Service
- Counselor
- Court Interpreter
- Customs Inspector
- Diplomat
- Exchange Coordinator
- Foreign Correspondent
- Foreign Secretary
- Foreign Service Officer
- Immigration Specialist
- Import/Export Agent
- Interpreter/Translator
- IRS/Franchise Tax Board
- Law Enforcement Officer
- Librarian
- Media Personnel
- Medical/Health Worker
- Missionary
- Peace Corps Worker
- Public Relations
- Realtor
- Research Assistant
- Sales Representative
- Social Worker
- Teacher
- Technical Writer
- Trade and Commerce Expert
- Travel Industry
- U.S. Immigration/Customs
- U.S. Information Agent
- Foreign Publications/Textbook Editor
- International Business Personnel

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TRANSFER PREPARATION

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http://wiche.edu/wue - Western Undergraduate Exchange Programs

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SPANISH (For Transfer)

ASSOCIATE DEGREE PROGRAM

SPANISH
Associate in Arts in Spanish for Transfer (AA-T) – 19.0-23.0 units

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

REQUIREMENTS FOR THE DEGREE

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. Nineteen to Twenty-Three (19-23) units required for the major

Required for the Major (10-20 units)

SPAN	100	Elementary Spanish I	5.0
SPAN	110	Elementary Spanish II	5.0
SPAN	200	Intermediate Spanish I	5.0
OR			
SPAN	220	Spanish for Heritage Speakers I	5.0
SPAN	210	Intermediate Spanish II	5.0
OR			
SPAN	221	Spanish for Heritage Speakers II	5.0

List A: Select one course (3 units)

SPAN	222	Bilingual Oral Spanish	3.0
SPAN	225	Introduction to Spanish American Literature	3.0
SPAN/HUM	262	Introduction to Chicano/a Studies	3.0

** NOTE: If a student places out of any required course and is not awarded units for that course, the student will have to take additional units to compensate for the course/units needed to reach at least 18 total units in the major (per Title 5 regulations). Appropriate course substitutions may be from List A if not already used or from the Substitution Courses listed below.*

Substitution Courses:

ANTH	102	Cultural Anthropology	3.0
COMM	150	Intercultural Communication	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/LAS	225	Mexican American History	3.0
SOC	101	Introduction to Sociology	3.0
SPAN	223	Spanish Reading and Writing	4.0

Total Major Units	19.0-23.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	____
Total Maximum Units:	**60.0**

STUDIO ARTS (For Transfer)

DEGREES, CERTIFICATES AND AWARDS

Associate in Art Degree in Studio Arts for Transfer (AA-T)

DESCRIPTION

The IVC Art Department serves a diverse group of students, from those who are taking their first and only art instruction, to those who will go on to use art skills in their careers. All students are given both the technical knowledge and the emotional support needed to excel in their art. The study of art at IVC is an ideal way for students to understand their creative potential, whether they choose to work in drawing, painting, ceramics, sculpture or design. Art students learn that art requires a balance between their intellect and their emotions. The IVC Art program offers introductory and intermediate courses that blend both traditional and contemporary art values and Art History courses that satisfy requirements for Humanities credit.

The Associate in Arts 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 (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

PROGRAM LEARNING OUTCOMES

1. Critically analyze, interpret, and evaluate works of art.
2. Develop a foundation of art skills and a high level of craftspersonship by utilizing a variety of tools and technologies associated with the visual arts.
3. Use a diverse range of global events to express personal ideas and opinions through artwork.
4. Identify the theoretical, cultural, and historical contexts of art.
5. Demonstrate appropriate skills needed to articulate their conscious artistic intentions, and express coherent aesthetics.

ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree 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 this degree for more information on university admission and transfer requirements.

CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Artist
- Art Consultant
- Art Critic
- Art Dealer
- Art Historian
- Art Teacher
- Art Therapist
- Arts Administrator
- Ceramicist
- Gallery Director
- Graphic Designer
- Jewelry Designer
- Metalsmith
- Muralist
- Painter
- Photographer
- Printmaker
- Restoration Artist
- Sculptor
- Set painter

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TRANSFER PREPARATION

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FINANCIAL AID

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STUDIO ARTS (For Transfer)

ASSOCIATE DEGREE PROGRAM

STUDIO ARTS
Associate in Arts Degree in Studio Arts for Transfer (AA-T) – 24.0 units

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

REQUIREMENTS FOR THE DEGREE

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. Twenty-Four (24) units required for the major.

Required for the Major (12 units)

ART	102	History of Art II	3.0
ART	110	Design	3.0
ART	112	Design	3.0
ART	120	Drawing I	3.0
List A: Select one (3 units):			3.0
ART	100	History of Art I (3.0)	
ART	104	History of Modern Art (3.0)	
List B: Select three (9 units):			9.0
ART	122	Drawing II (3.0)	
ART	124	Painting I (3.0)	
ART	126	Painting II (3.0)	
ART	128	Watercolor Painting (3.0)	
ART	160	Graphic Design (3.0)	
ART	170	Photography – Beginning (3.0)	
ART	220	Drawing III (3.0)	
ART	222	Drawing IV (3.0)	
ART	260	Advertising/Graphic Design (3.0)	

TTotal Major Units	24.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	____
Total Maximum Units:	**60.0**

UNIVERSITY STUDIES

DEGREES, CERTIFICATES AND AWARDS
Associate in Arts Degree (A.A.)

DESCRIPTION

The Associate in Arts (A.A.) degree in University Studies is a degree program designed for students who would like to earn an associate's 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.

PROGRAM LEARNING OUTCOMES

1. See GE Program Outcomes/Course Alignment Grid at **www.imperial.edu/faculty-and-staff/campus-committess/student-learning-outcomes/**

ASSOCIATE DEGREE PROGRAM

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine

www.CSUMentor.edu – CSU System Information

www.universityofcalifornia.edu/admissions/index.html - UC System Information

www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

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UNIVERSITY STUDIES

ASSOCIATE DEGREE PROGRAM

UNIVERSITY STUDIES MAJOR – A.A. 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 courses must be completed with a grade of "C" of better.
   a. CSU GE-Breadth Pattern (39.0 units) 34.0-39.0
   b. IGETC Pattern (34.0-37.0 units)
3. **Minimum of eighteen (18.0) units in one selected Emphasis** **18.0**
   All courses must be completed with a grade of "C" of better.
   a. Emphasis – 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 (6.0) 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 60.0 degree applicable units required for this degree.

Emphasis in Arts and Humanities
Select a minimum of eighteen (18.0) units from the following Arts and Humanities courses. For depth, include a minimum of two courses from a single discipline; for breadth, include course 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 way 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 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 disciplines.

AMSL	100, 102, 104, 200, 202, 204
ART	100, 102, 104, 106
COMM	100, 110, 125, 130, 150, 180
ENGL	102, 220, 221, 222, 223, 224, 225, 226, 250
FILM	230
FREN	100, 110, 201, 211
HIST	100, 101, 110, 111, 120, 121, 130, 131, 132, 140, 150,160, 220, 222, 225
HUM	100, 226, 262
JRN	100
LAS	130, 131, 132, 225
MUS	100, 102
PHIL	100, 102, 104, 106
RELS	100, 104
SPAN	100, 110, 200, 210, 220, 221, 225, 262
THEA	100

Emphasis in Behavioral and Social Science
Select a minimum of eighteen (18.0) units from the following Behavioral and Social Sciences 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 perspectives, 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 learn about themselves and others as member of a larger society. Topics and discussions to stimulate critical thinking about ways people have acted in response to their societies 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 major 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, 224
ADS	120, 150
AIS	106, 108
AMSL	110
ANTH	102, 106, 108, 120
CDEV	103, 104
ECON	101, 102
GEOG	102, 108
HIST	100, 101, 110, 111, 120, 121, 130, 131, 132, 140, 150, 160, 220, 222, 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, 110, 150, 206, 224

Emphasis in Science and Mathematics
Select a minimum of eighteen (18.0) 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 completion 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 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, 210
CS	221, 231, 281
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

IVC Graduation and Institutional Requirements	30.0
CSU-GE Pattern	39.0
IGETC Pattern	37.0
Total Emphasis Units	18.0
Electives (as needed to reach 60.0 degree applicable units)	
Total Maximum Units:	**60.0**

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WATER TREATMENT SYSTEMS TECHNOLOGY

DEGREES, CERTIFICATES AND AWARDS

Associate of Science Degree (A.S.)
Certificate of Achievement
Specialization Certificate
Wastewater Treatment

DESCRIPTION

Water Technology is a career oriented vocational program involving the study of water/wastewater theory and principles. Professionalism, workplace skills and responsibilities are stressed along with safety and an awareness of hazardous materials control. The Water Treatment Systems Technology degree and certificates are 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.

PROGRAM LEARNING OUTCOMES

1. Interpret and use analytical data to perform operational adjustments.
2. Assume responsibility for water treatment operational changes.
3. Understand and evaluate issues concerning the proper use and distribution of the water natural resources.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

- Water Treatment Plant Operator
- Wastewater Treatment Plant Operator
- Water Distribution Operator

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

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http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

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WATER TREATMENT SYSTEMS TECHNOLOGY

ASSOCIATE DEGREE PROGRAM

WATER TREATMENT SYSTEM TECHNOLOGY MAJOR – A.S. DEGREE
Eighteen (18.0) units required for the major.

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

I. Required courses for the major (18.0 units)

WT	105	Computational Procedures Operator I	3.0
WT	110	Water Treat Plant Operator I	4.0
WT	140	Water Distribution Systems	4.0
WT	205	Computational Procedures Operator II	3.0
WT	210	Water Treat Plan Operator II	4.0

Total Major Units **18.0**

CERTIFICATE PROGRAM(S)

WATER TREATMENT SYSTEMS TECHNOLOGY CERTIFICATE
Eighteen (18.0) units required for the certificate.

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

I. Required courses for the certificate (18.0 units)

WT	105	Computational Procedures Operator I	3.0
WT	110	Water Treat Plant Operator I	4.0
WT	140	Water Distribution Systems	4.0
WT	205	Computational Procedures Operator II	3.0
WT	210	Water Treat Plan Operator II	4.0

Total Certificate Units **18.0**

SPECIALIZATION CERTIFICATE
The Specialization Certificate(s) demonstrates a completion of coursework in addition to the major in Water Treatment Systems Technology.

SPECIALIZATION CERTIFICATE

WATER TREATMENT SYSTEMS TECHNOLOGY: WASTEWATER TREATMENT SPECIALIZATION CERTIFICATE
Twelve (12.0) units required for the certificate.

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

PROGRAM LEARNING OUTCOMES

1. Demonstrate knowledge of: Water source, treatment, flocculation, sedimentation, odor control, plant operation and laboratory procedures.
2. Ability to calculate all basic mathematic problems that applied to treatment plant operations. This calculation includes fractions decimals, percentages, ratios, proportions, volumes, metric system and estimation.
3. Develop preventative maintenance programs and maintain records of inspection and repair for all water works.

I. Required courses for the certificate (12.0 units)

WT	130	Wastewater Treatment Operator I	4.0
WT	150	Wastewater Collection Systems	4.0
WT	230	Wastewater Treatment Operator II	4.0

Total Major Units	18.0
Water treatment Specialization Units	12.0
Total Certificate Units	**30.0**

WELDING TECHNOLOGY

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

The Imperial Valley College Welding Technology curriculum is designed to educate, train, and prepare our students to meet the minimum knowledge and skill standards for entry level welders established by the American Welding Society. The emphasis of our teaching and learning activities is to master the theory, technology, applied science, and practical skills that are the foundation of a rewarding career in Welding Technology. All welding courses are a combination of the many skills, aptitudes, and knowledge identified as necessary competencies for welding personnel. Courses include the core competencies for welding personnel which are; Industrial Safety, Oxy-Fuel Welding and Cutting, Weld Symbols, Shielded Metal ArcWelding ("Stick") on plate and pipe, Gas Tungsten Arc Welding ("TIG") on plate and pipe, Plasma Arc Cutting, Air Carbon Arc Cutting, Flux Cored Arc Welding, and Gas Metal Arc Welding ("MIG").

PROGRAM LEARNING OUTCOMES

1. Explain the hierarchy of "Hazard Control" in a Welding Environment and how this relates to Occupational Safety and Health, to include; (1) Identification of Hazards, (2) Elimination of Hazards, (3) Administration of Hazards, Engineering Controls, and (5) Personal Protective Equipment.
2. Demonstrate an understanding of Oxyacetylene Welding and Cutting to include the proper and safe procedures for set-up and use of related equipment.
3. Define and explain the physical and mechanical properties of metals and how these influence the development of Performance Qualification Records (PQR) and Welding Procedure Specifications (WPS) related to welding processes and applications.
4. Explain and demonstrate the proper set-up and use of all related components used in Gas Tungsten Arc Welding (GTAW).
5. Using the prescribed specifications and accepted parameters, apply the predetermined inspection criteria to assess "acceptable" weld samples for Destructive and Nondestructive testing.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

- Assembly Worker
- Auto Body Worker
- Sheet Metal Worker
- Welder
- Structural and Iron Work Welder

Industry fields:

- Aerospace and Manufacturing
- Automotive and Transportation
- Pipe and Vessel Welding
- Fabrication and Maintenance
- Petroleum and Energy
- Shipbuilding and Heavy Industry

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WELDING TECHNOLOGY

ASSOCIATE DEGREE PROGRAM

WELDING TECHNOLOGY MAJOR – A.S. DEGREE
Twenty-one (21.0) units required for the major.

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

I. Required courses for the major (21.0 units)

WELD	100	Welding Technology	5.0
WELD	115	Flux Cored Arc Welding on Plate	3.0
WELD	125	Gas Tungsten Arc Welding on Plate	3.0
WELD	135	Shielded Metal Arc Welding on Plate	4.0
WELD	225	Gas Tungsten Arc Welding on Pipe	3.0
WELD	230	Shielded Metal Arc Welding on Pipe	3.0

Total Major Units **21.0**

CERTIFICATE PROGRAM

WELDING TECHNOLOGY CERTIFICATE
Twenty-one (21.0) units required for the certificate.

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

II. Required courses for the major (21.0 units)

WELD	100	Welding Technology	5.0
WELD	115	Flux Cored Arc Welding on Plate	3.0
WELD	125	Gas Tungsten Arc Welding on Plate	3.0
WELD	135	Shielded Metal Arc Welding on Plate	4.0
WELD	225	Gas Tungsten Arc Welding on Pipe	3.0
WELD	230	Shielded Metal Arc Welding on Pipe	3.0

Total Certificate Units **21.0**

APPRENTICESHIP TRAINING PROGRAMS

APPRENTICESHIP TRAINING PROGRAMS

APPRENTICESHIP FIELDS OF STUDY

Control Operator
Electrician
Generation Mechanic
Hydro Operator
Instrument Technician
Meter Technician
Power Lineman
Relays Technician
SCADA/Telecommunications Technician
Substation-Electrician
Telecommunications Technician

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
- Electrician
- Generation Mechanic
- Meter Technician
- Power Lineman
- Relays Technician
- SCADA/Telecommunications Technician
- Substation-Electrician

Certificate of Achievement
- Electrician
- Generation Mechanic
- Hydro Operator
- Instrument Technician
- Meter Technician
- Power Lineman
- Power Plant Operator
- Relays Technician
- SCADA/Telecommunications Technician
- Substation-Electrician
- Telecommunications Technician

DESCRIPTION

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 Imperial Irrigation District (IID). Applicants for these apprenticeship programs are directed to the IID office 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 most of the Apprenticeship programs identified on this page.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. 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.

CAREER OPPORTUNITIES

Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

APPRENTICESHIP COURSE LOCATIONS

IID-ECBB
Imperial Irrigation District, El Centro Bell Building
2151 W. Adams Ave.
El Centro, CA 92243

IID-ELSH
Imperial Irrigation District, Electric Shop
333 E Barioni Blvd.
Imperial, CA 92251

IID-ETC
Imperial Irrigation District, Employee Training Center
333 E Barioni Blvd.
Imperial, CA 92251

IID-ECTR
Imperial Irrigation District, El Centro Training Center
1284 Main St.
El Centro, CA 92243

IID-HYDROS
Imperial Irrigation District, Hydros
3675 E. Hwy. 98
Holtville, CA 92250

IID-LQ
Imperial Irrigation District, La Quinta
81600 Avenue 58
La Quinta, CA 92253

IID-MS
Imperial Irrigation District, Meter Shop
333 E. Barioni Blvd.
Imperial, CA 92251

IID-MTR
Imperial Irrigation District, Mechanical Training Room
333 E. Barioni Blvd.
Imperial, CA 92251

IID-PD
Imperial Irrigation District, Power Dock
333 E. Barioni Blvd.
Imperial, CA 92251

IID-SP
Imperial Irrigation District, Steam Plant
485 W. Villa Rd.
El Centro, CA 92243

IID-WC
Imperial Irrigation District, Water Control
333 E. Barioni Blvd.
Imperial, CA 92251

APPRENTICESHIP – CONTROL OPERATOR

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION

The Control Operator Apprenticeship Program will prepare students to operate and control distributed control system and heat recovery steam generator, steam turbines, generators, and associated mechanical and electrical equipment in the production of electrical energy.

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 Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. 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.

PROGRAM LEARNING OUTCOMES

1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

CERTIFICATE OF ACHIEVEMENT PROGRAM

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

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TRANSFER PREPARATION

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http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

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APPRENTICESHIP – CONTROL OPERATOR

CERTIFICATE PROGRAM

APPRENTICESHIP – CONTROL OPERATOR CERTIFICATE
Thirty-two (32.0) units required for the certificate.

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.

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

I. Required courses for the certificate (32.0 units).

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
APPL	105	Power Plant Operator V	4.0
APPL	106	Power Plant Operator VI	4.0
APPL	107	Power Plant Operator VII	4.0
APPL	108	Power Plant Operator VIII	4.0

Total Certificate Units **32.0**

APPRENTICESHIP – ELECTRICIAN

DEGREES, CERTIFICATES AND AWARDS
Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

The Electrician Apprenticeship Program will prepare students to perform a variety of skilled electrical work associated with the construction, installation, maintenance, and repair of high and low voltage electrical systems found in substations, control buildings, and underground facilities.

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 Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. 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.

PROGRAM LEARNING OUTCOMES

1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

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APPRENTICESHIP – ELECTRICIAN

ASSOCIATE DEGREE PROGRAM

APPRENTICESHIP – ELECTRICIAN – A.S. DEGREE
Thirty-two (32.0) units required for the major.

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.

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

I. Required courses for the major (32.0 units).

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
OR	APLN	106	Power Lineman VI (4.0)	
APEL	107		Electrician VII	4.0
APEL	108		Electrician VIII	4.0

Total Major Units **32.0**

CERTIFICATE PROGRAM

APPRENTICESHIP – ELECTRICIAN CERTIFICATE
Thirty-two (32.0) units required for the certificate.

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.

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

I. Required courses for the certificate (32.0 units).

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
OR	APLN	106	Power Lineman VI (4.0)	
APEL	107		Electrician VII	4.0
APEL	108		Electrician VIII	4.0

Total Certificate Units **32.0**

APPRENTICESHIP – GENERATION MECHANIC

DEGREES, CERTIFICATES AND AWARDS
Associate in Science Degree (A.S.)
Certificate of Achievement

Photo: Imperial Irrigation District (IID)

DESCRIPTION

The Generation Mechanic Apprenticeship Program will prepare students to inspect, test, adjust, and repair mechanical power generation equipment.

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 Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. 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.

PROGRAM LEARNING OUTCOMES

1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

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APPRENTICESHIP – GENERATION MECHANIC

ASSOCIATE DEGREE PROGRAM

APPRENTICESHIP – GENERATION MECHANIC – A.S. DEGREE
Thirty-two (32.0) units required for the major.

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.

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

I. Required courses 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

Total Major Units **32.0**

CERTIFICATE PROGRAM

APPRENTICESHIP – GENERATION MECHANIC CERTIFICATE
Thirty-two (32.0) units required for the certificate.

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.

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

I. Required courses for the certificate (32.0 units).

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

Total Certificate Units **32.0**

APPRENTICESHIP – HYDRO OPERATOR

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION

The Hydro Operator Apprenticeship Program will prepare students to control operations of electrical and mechanical equipment (including hydraulic machinery) at one or more hydroelectric generating plants.

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 Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. 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.

PROGRAM LEARNING OUTCOMES

1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

CERTIFICATE OF ACHIEVEMENT PROGRAM

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

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APPRENTICESHIP – HYDRO OPERATOR

CERTIFICATE PROGRAM

APPRENTICESHIP – HYDRO OPERATOR CERTIFICATE
Thirty-two (32.0) units required for the certificate.

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.

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

I. Required courses for the certificate (32.0 units).

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
APHY	105	Hydro Operator V	4.0
APHY	106	Hydro Operator VI	4.0
APHY	107	Hydro Operator VII	4.0
APHY	108	Hydro Operator VIII	4.0

Total Certificate Units **32.0**

APPRENTICESHIP – INSTRUMENT TECHNICIAN

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION

The Instrument Technician Apprenticeship Program will prepare students to inspect, adjust, and repair electrically and pneumaticallly operated instruments used to indicate and control operating conditions of turbines, furnaces, boilers, and auxiliaries in power-generating plants.

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 Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. 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.

PROGRAM LEARNING OUTCOMES

1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

CERTIFICATE OF ACHIEVEMENT PROGRAM

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

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APPRENTICESHIP – INSTRUMENT TECHNICIAN

CERTIFICATE PROGRAM

APPRENTICESHIP – INSTRUMENT TECHNICIAN CERTIFICATE
Thirty-two (32.0) units required for the certificate.

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.

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

I. Required courses for the certificate (32.0 units).

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
APIN	105	Instrument Technician V	4.0
APIN	106	Instrument Technician VI	4.0
APIN	107	Instrument Technician VII	4.0
APIN	108	Instrument Technician VIII	4.0

Total Certificate Units **32.0**

APPRENTICESHIP – METER TECHNICIAN

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

The Meter Technician Apprenticeship Program will prepare students to inspect, test, calibrate, maintain, and repair KWH meters and associated equipment in the shop or in the field, determine when KWH meters are obsolete or beyond repair, and maintain records on all KWH meters.

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 Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. 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.

PROGRAM LEARNING OUTCOMES

1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

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APPRENTICESHIP – METER TECHNICIAN

ASSOCIATE DEGREE PROGRAM

APPRENTICESHIP – METER TECHNICIAN – A.S. DEGREE
Thirty-two (32.0) units required for the major.

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.

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

I. Required courses for the major (32.0 units).

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

Total Major Units **32.0**

CERTIFICATE PROGRAM

APPRENTICESHIP – METER TECHNICIAN CERTIFICATE
Thirty-two (32.0) units required for the certificate.

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.

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

I. Required courses for the certificate (32.0 units).

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

Total Certificate Units **32.0**

APPRENTICESHIP – POWER LINEMAN

DEGREES, CERTIFICATES AND AWARDS
Associate in Science Degree (A.S.)
Certificate of Achievement

Photo: Imperial Irrigation District (IID)

DESCRIPTION

The Power Lineman Apprenticeship Program will prepare students to perform a variety of skilled line and power work connected with the construction and maintenance of overhead and underground electrical transmission, distribution lines, and perform work on energized circuits ranging from low to high voltage lines.

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 Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. 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.

PROGRAM LEARNING OUTCOMES

1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine

www.CSUMentor.edu – CSU System Information

www.universityofcalifornia.edu/admissions/index.html - UC System Information

www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: **www.imperial.edu/students/financial-aid-and-scholarships/**

APPRENTICESHIP – POWER LINEMAN

ASSOCIATE DEGREE PROGRAM

APPRENTICESHIP – POWER LINEMAN – A.S. DEGREE
Thirty-two (32.0) units required for the major.

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.

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

I. Required courses for the major (32.0 units).

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

Total Major Units **32.0**

CERTIFICATE PROGRAM

APPRENTICESHIP – POWER LINEMAN CERTIFICATE
Thirty-two (32.0) units required for the certificate.

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.

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

I. Required courses for the certificate (32.0 units).

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

Total Certificate Units **32.0**

APPRENTICESHIP – RELAYS TECHNICIAN

DEGREES, CERTIFICATES AND AWARDS
Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

The Relays Technician Apprenticeship Program will prepare students to install, maintain, test, and repair the Imperial Irrigation District's substation protective relays, AC and DC control systems, microprocessor relaying communications, and associated high voltage substation equipment.

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 Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. 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.

PROGRAM LEARNING OUTCOMES

1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

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www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: **www.imperial.edu/students/financial-aid-and-scholarships/**

APPRENTICESHIP – RELAYS TECHNICIAN

ASSOCIATE DEGREE PROGRAM

APPRENTICESHIP – RELAYS TECHNICIAN – A.S. DEGREE
Thirty-two (32.0) units required for the major.

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.

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

I. Required courses for the major (32.0 units).

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
OR			
APLN	106	Power Lineman VI (4.0)	
APRL	107	Relays Technician VII	4.0
APRL	108	Relays Technician VIII	4.0

Total Major Units **32.0**

CERTIFICATE PROGRAM

APPRENTICESHIP – RELAYS TECHNICIAN CERTIFICATE
Thirty-two (32.0) units required for the certificate.

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.

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

I. Required courses for the certificate (32.0 units).

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
OR			
APLN	106	Power Lineman VI (4.0)	
APRL	107	Relays Technician VII	4.0
APRL	108	Relays Technician VIII	4.0

Total Certificate Units **32.0**

APPRENTICESHIP – SCADA/TELECOMMUNICATIONS TECHNICIAN

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement

Photo: Imperial Irrigation District (IID)

DESCRIPTION

The Telecommunications Technician Apprenticeship Program will prepare students to install, configure, test, maintain, troubleshoot,and repair microwave radio and fiber-optic networks for substation communications, two-way radio, telephone, video surveillancesystems, and associated equipment.

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 Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. 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.

PROGRAM LEARNING OUTCOMES

1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

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http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

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APPRENTICESHIP – SCADA/TELECOMMUNICATIONS TECHNICIAN

ASSOCIATE DEGREE PROGRAM

APPRENTICESHIP – SCADA/TELECOMMUNICATIONS TECHNICIAN – A.S. DEGREE
Thirty-two (32.0) units required for the major.

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.

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

I. Required courses for the major (32.0 units).

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

Total Major Units **32.0**

CERTIFICATE PROGRAM

APPRENTICESHIP – SCADA/TELECOMMUNICATIONS CERTIFICATE
Thirty-two (32.0) units required for the certificate.

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.

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

I. Required courses for the certificate (32.0 units).

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

Total Certificate Units **32.0**

APPRENTICESHIP – SUBSTATION ELECTRICIAN

DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement

Photo: Imperial Irrigation District (IID)

DESCRIPTION

The Substation-Electrician Apprenticeship Program will prepare students to perform a variety of skilled electrical work associated with the construction, installation, maintenance, and repair of high and low voltage electrical systems found in substations, controlbuildings, and underground facilities.

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 Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. 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.

PROGRAM LEARNING OUTCOMES

1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

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www.CSUMentor.edu – CSU System Information

www.universityofcalifornia.edu/admissions/index.html - UC System Information

www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

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APPRENTICESHIP – SUBSTATION ELECTRICIAN

ASSOCIATE DEGREE PROGRAM

APPRENTICESHIP – SUBSTATION ELECTRICIAN – A.S. DEGREE
Thirty-two (32.0) units required for the major.

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.

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

I. Required courses for the major (32.0 units).

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
OR	APLN	106	Power Lineman VI (4.0)	
APSB	107		Substation-Electrician VII	4.0
APSB	108		Substation-Electrician VIII	4.0

Total Major Units **32.0**

CERTIFICATE PROGRAM

APPRENTICESHIP – SUBSTATION ELECTRICIAN CERTIFICATE
Thirty-two (32.0) units required for the certificate.

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.

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

I. Required courses for the certificate (32.0 units).

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
OR	APLN	106	Power Lineman VI (4.0)	
APSB	107		Substation-Electrician VII	4.0
APSB	108		Substation-Electrician VIII	4.0

Total Certificate Units **32.0**

APPRENTICESHIP – TELECOMMUNICATIONS TECHNICIAN

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION

The Telecommunications Technician Apprenticeship Program will prepare students to install, configure, test, maintain, troubleshoot, and repair microwave radio and fiber-optic networks for substation communications, two-way radio, telephone, video surveillance systems, and associated equipment.

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 Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. 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.

PROGRAM LEARNING OUTCOMES

1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

CERTIFICATE OF ACHIEVEMENT PROGRAM

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: **http://www.imperial.edu/courses-and-programs/programs-of-study/**

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:

www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine

www.CSUMentor.edu – CSU System Information

www.universityofcalifornia.edu/admissions/index.html - UC System Information

www.aiccu.edu – California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: **www.imperial.edu/students/financial-aid-and-scholarships/**

APPRENTICESHIP – TELECOMMUNICATIONS TECHNICIAN

CERTIFICATE PROGRAM

APPRENTICESHIP – TELECOMMUNICATIONS TECHNICIAN CERTIFICATE
Thirty-two (32.0) units required for the certificate.

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.

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

I. Required courses for the certificate (32.0 units).

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
APTL	105	Telecommunications Technician V	4.0
APTL	106	Telecommunications Technician VI	4.0
APTL	107	Telecommunications Technician VII	4.0
APTL	108	Telecommunications Technician VIII	4.0

Total Certificate Units **32.0**

APPRENTICESHIP - COURSES OF INSTRUCTION

APPRENTICESHIP-CONTROL OPERATOR

APPL 105 (4.0 UNITS)
Power Plant Operator V
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite: 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 Units)
Power Plant Operator VI
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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 Units)
Power Plant Operator VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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 Units)
Power Plant Operator VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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-ELECTRICIAN

APEL 105 (4 Units)
Electrician V
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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 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 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 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 Units)
Generation Mechanic V
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: ELTT 104 - Electrical Traces IV.
Comprehensive review in AC theory, application and generation line systems augmented with an introduction of hydro electric power, generation, dispatching, hydro power operations and related construction standards. (Nontransferable, AA/AS degree only)

APGN 106 (4 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 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 Units)
Generation Mechanic VIII
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 Units)
Hydro Operator 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, nondegree applicable)

APHY 106 (4 Units)
Hydro Operator VI
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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 Units)
Hydro Operator VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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 Units)
Hydro Operator VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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 Units)
Instrument Technician V
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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 Units)
Instrument Technician VI
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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 Units)
Instrument Technician VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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 Units)
Instrument Technician VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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 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 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 Units)
Meter Technician VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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 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 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 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 Units)
Power Lineman VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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 Units)
Power Lineman VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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, AA/AS degree only)

APPRENTICESHIP-RELAYS TECHNICIAN

APRL 105 (4 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 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 Units)
Relays Technician VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only..
Prerequisite: 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 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 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 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 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 Units)
SCADA/Telecommunications Technician VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APSC 107 - SCADA/Telecommunications Technician VII.
Comprehensive review of industry standards relative to constructing microwave and telecommunication systems. Review of construction safety and the use of test equipment, small electrical devices and transformers. Advanced apprentice training in resistance and wire size and Title VIII Underground and overhead work. (Nontransferable, AA/AS degree only)

APPRENTICESHIP-SUBSTATION-ELECTRICIAN

APSB 105 (4 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 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 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 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 Units)
Telecommunications Technician V
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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 Units)
Telecommunications Technician VI
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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 Units)
Telecommunications Technician VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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 Units)
Telecommunications Technician VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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)

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COURSES OF INSTRUCTION

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.

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)

**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.*

The various technologies used for delivery of instruction may include some combination of print, voice, video, and data delivered via the Internet using the Blackboard and/or Canvas learning management systems. Both platforms are easy-to-use, menu-driven applications that are fully compliant with section 508 of the American Disabilities Act. Students must be enrolled in a class to access these sites.

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.

COURSE IDENTIFICATION NUMBERING SYSTEM (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM 110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID COMM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different community colleges. However, students should always go to www.assist.org to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

Students may consult the ASSIST database at www.assist.org for specific information on C-ID course designations. Counselors can always help students interpret or explain this information.

Winter and Summer Sessions

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

ADDICTION DISORDER 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 examines the social construction of race including the social, political and historical factors that shape race. Discussion topics include how race is interpreted across large aggregate categories such as ethnicity, gender, class, immigration status and sexuality. Additionally this course will provide how the concept of race is affected by the colonial experience and the forming of contemporary society. (Same as SOC 150) (C-ID SOCI 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, nonsubstance 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
Recommended 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 with a grade of "C" or better.
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)

ADS 240 (3.0 Units)
Ethics and Legal Standard in Addiction Counseling
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
This course reviews ethical and legal standards required by the industry, state entities, or federal entities and affecting the practice of addiction prevention and addiction counseling of adults and minors. Course will address specific requirements of the judicial system, Department of Children's Protective Services, the Department of Adult Protective Services, and the Department of Mental Health. (CSU)

ADS 251 (3.0 Units)
Dual Diagnosis
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
This course will introduce students to co-occurring disorders and treatment needs of those who have a psychiatric or mental health disorder in combination with a substance abuse disorder. Students will learn to identify, examine, screen and gain knowledge in assessment tools to evaluate the presence and severity of co-occurring disorders. This course also explores the treatment of persons with co-occurring disorders. Strategies for risk management associated with treating individual modalities with co-occurring disorders are presented. (CSU)

ADMINISTRATION OF JUSTICE

AJ 100 (3.0 Units)
Introduction to the Administration of Justice
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: ENGL 009 and READ 019
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. (C-ID AJ 110) (CSU, UC)

AJ 102 (3.0 Units)
Concepts of Criminal Law
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: ENGL 110 and READ 111
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. (C-ID AJ 120) (CSU, UC)

AJ 104 (3.0 Units)
Legal Aspects of Evidence
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: AJ 100, ENGL 009 and READ 019.
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. (C-ID AJ 124) (CSU)

AJ 106 (3.0 Units)
Principles and Procedures of the Justice System
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: ENGL 009 and READ 019.
The course provides an examination and analysis of due process in criminal proceedings from pre-arrest through trial and appeal utilizing statutory law and state and constitutional law precedents. (C-ID AJ 122) (CSU)

AJ 108 (3.0 Units)
Public Safety Report Writing
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: ENGL 009 or ENGL 010 with a grade of "C" or better.
This course 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, memorandums, 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 110 (3.0 Units)
Law Enforcement Community Relations
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: ENGL 009 and READ 019.
This course examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics may include the consensus and conflicting values in Cultural, Religion, and the Law. Through interaction and study, the student will become aware of the relationship and role law enforcement, the courts and corrections have in our multicultural society and how that role is evolving to an ever changing population. Emphasis will be placed upon the development of positive relationships between members in the criminal justice system and the public they serve. Concepts of community-oriented policing as they apply to administration of justice issues, future trends, and training will be discussed. (C-ID AJ 160) (CSU, UC)

AJ 121 (3.0 Units)
Law Enforcement Field Operations
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: AJ 100, ENGL 009 and READ 019.
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 141 (3.5 Units)
Arrest and Firearms
Term Hours: 45 Lec, 54 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: ENGL 009 and READ 019.
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 160 (10.0 Units)
Regular Basic Course Modular Format Level III
Term Hours: 135 Lec, 135 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 Regular Basic Course
Modular Format 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: ENGL 009 and READ 019.
Designed to satisfy the Regular Basic Course Modular Format 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 162 (13.5 Units)
Regular Basic Course Modular Format Level II
Term Hours: 207 Lec, 108 Lab
Letter Grade Only
Prerequisites: AJ 141 and AJ 142 or AJ 160 as required by P.O.S.T. before January 1, 2007 or AJ 142 or AJ 160 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 Regular Basic Course Modular Format 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, ENGL 009, and READ 019.
Designed to satisfy Regular Basic Course Modular Format Level II. 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 164 (17.5 Units)
Regular Basic Course Modular Format Level I
Term Hours: 237 Lec, 234 Lab
Letter Grade Only
Prerequisites: AJ 162. No felony or domestic violence convictions. Valid California Driver's License. All students entering Regular Basic Course Modular Format Level I class 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. Passing scores on the PELLETB test and the P.O.S.T. Work Sample Test Battery (Physical Fitness Test).
Designed to satisfy Regular Basic Course Modular Format Level I. 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, weapons law, crimes against children, juvenile law, controlled substances, ABC law, emergency vehicle operations, domestic violence, traffic enforcement, accident investigation, lifetime fitness, gangs, 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 I Reserve Officer or full-time Peace Officer in the State of California. (CSU)

AJ 222 (3.0 Units)
Criminal Investigation
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: ENGL 009 and READ 019.
The course addresses the techniques, procedures, and ethical issues in the investigative process, crime scene searches, interviewing and interrogating, surveillance, source of information, utility of evidence, scientific analysis of evidence and the role of the investigator in the trial process. (C-ID AJ 140) (CSU)

AJ 223 (3.0 Units)
Juvenile Control
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: ENGL 009 and READ 019.
Techniques of handling juvenile offenders and victims; prevention and repression of delinquency; diagnosis and referral; organization of community resources; juvenile law and juvenile procedures. (C-ID AJ 220) (CSU)

AJ 224 (3.0 Units)
Criminology
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: ENGL 009 and READ 019.
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 224) (C-ID SOCI 160) (CSU)

AGRICULTURE

AG 110 (3.0 Units)
Environmental Science
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: ENGL 009 and READ 019.
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 biosphere, air, water, land, and environmental problems faced by the Imperial Valley that have regional and global consequences, and some of the proposed solutions. Field trips and activities may be included in this course. (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 081 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. Laboratory required. Laboratory topics include soil type, classification, soil reaction, soil fertility and physical properties of soil. (C-ID AG-PS 128L) (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 134 (3.0 Units)
Agricultural Business Organization
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
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, Communication, 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. Self-management, communication, and interpersonal skills necessary in developing managerial abilities, leadership qualities, and facilitating teamwork within the agribusiness sector will be explored. Methods of payment, use of advertising, promotion, incentives, and customer service topics will be discussed. (C-ID AG-AB 112) (CSU)

AG 138 (3.0 Units)
Computer Applications in Agriculture
Term Hours: 36 Lec, 54 Lab
Letter Grade or Pass/No Pass
Computer use in the workplace with emphasis on agribusiness situations. Computer applications including word-processing, spreadsheets, databases, and presentation managers will be covered. Also included will be accessing information through the Internet and World Wide Web, telecommunications, an introduction to web page design and other software appropriate to agribusiness. Application of these concepts and methods through hands-on projects developing computer-based solutions for agriculture business. (Same as CIS 138) (C-ID AG-AB 108) (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. (C-ID AG-PS 106L) (CSU, UC)

AG 142 (3.0 Units)
Introduction to Biofuel Input and Production
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
This course will introduce the student to the various agriculture commodities and byproducts that have been used and are under investigation for the purpose of producing renewable energy for combustion and electricity. Focus will include crops products such as corn, sugar cane, soy and other oil crops, algae and various crop residue products. Discussion will also examine potential economic feasibility of producing other plant products for biomass that are commonly thought of as "weeds". (CSU)

AG 160 (3.0 Units)
Food and Fiber in a Changing World
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Relationship of agriculture and natural resources to society. Where do our food and fiber come from? How does agriculture affect the dynamics of our society? What are the issues and opportunities in agriculture now and in the future? (CSU)

AG 170 (3.0 Units)
Principles of Entomology
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
This course covers the principles of the classification, identification, anatomy, physiology, ecology, management, and collecting of arthropods (i.e., insects, spiders, mites, etc.), with emphasis on those of importance to agriculture. (CSU, UC)

AG 220 (3.0 Units)
Irrigation and Drainage
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
Recommended Preparation: AG 120
This course covers the fundamental principles and practices of irrigation. History of irrigation with emphasis on the Imperial Valley, water law, plant-soil-water measurement, methods of irrigation, structures, crop water needs, problems and practices in soil reclamation, drainage systems, and drainage requirements for irrigated agriculture will be discussed. (CSU)

AG 230 (3.0 Units)
Fertilizers and Soil Amendments
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: AG 120
This course covers the nature of fertilizers and soil amendments, their properties, methods of application, and effects on plants, soils, and the environment. The composition, value, and use of fertilizer materials and soil amendments are discussed. Methods employed in the production, distribution, and application of fertilizers and soil amendments are described. (CSU)

AG 245 (3.0 Units)
Plant Propagation/Production
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
Plant propagation and production practices with emphasis on nursery operations including sexual and asexual reproduction, planting, transplanting, fertilizing, plant pest and disease control; structures and site layout; preparation and use of propagating and planting mediums; use and maintenance of common tools and equipment; regulations pertaining to plant production. Laboratory required. (C-ID AG-EH 116L) (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
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
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
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
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
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
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)

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. Additional materials fee apply. (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 and current American Heart Association healthcare provider Basic Life Support card and successful completion of required clearances and vaccinations prior to attending off-campus clinical sites.
Contact nursing and allied health department for current details.
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, nondegree applicable)

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, and patient administration specialists. (CSU)

AMERICAN INDIAN STUDIES

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)

AMSL 220 (3.0 Units)
Linguistics of American Sign Language
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: Completion or co-enrollment in AMSL 202. This course introduces the basic components of linguistics underpinning any language. It focuses on discovering how ASL satisfies these components, and linguistic comparisons between ASL and English. Topics covered include phonology, morphology, syntax, semantics and lexis. This course will focus on comparative and applied linguistics, and also examine structural and theoretical linguistics. Students will learn ASL idioms, advanced mouth morphemes and classifiers, as well as advanced loan signs. This course ultimately aims to apply linguistic knowledge, resulting in increased fluency in ASL, both expressively and receptively. This course will be conducted in ASL. (CSU, UC)

ANTHROPOLOGY

ANTH 100 (3.0 Units)
Physical Anthropology
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Physical anthropology is the study of humans as biological beings subject to the forces of both evolution and culture. Physical anthropology studies humans in a biological context and explains our relationship to other primates and the rest of the natural world. Throughout the course we will examine anatomical, behavioral, and genetic similarities and differences among the living primates, and by illustrating the scientific method, learn the basic mechanism of the evolutionary processes and trace a pathway of human evolution in relation to environmental adaptation as reconstructed from the fossil record. (C-ID ANTH 110) (CSU, UC)

ANTH 102 (3.0 Units)
Cultural Anthropology
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
This course explores how anthropologists study and compare human culture. Cultural anthropologists seek to understand the broad arc of human experience focusing on a set of central issues: how people around the world make their living (subsistence patterns); how they organize themselves socially, politically and economically; how they communicate; how they relate to each other through family and kinship ties; what they believe about the world (belief systems); how they express themselves creatively (expressive culture); how they make distinctions among themselves such as through applying gender, racial and ethnic identity labels; how they have shaped and been shaped by social inequalities such as colonialism; and how they navigate culture change and processes of globalization that affect us all. Ethnographic case studies highlight these similarities and differences, and introduce students to how anthropologists do their work, employ professional anthropological research ethics and apply their perspectives and skills to understand humans around the globe. (C-ID ANTH 120) (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 data, theories, and models of anthropological archaeology that contributes to our knowledge of the human past. The course includes a discussion of the methods of scientific inquiry, the history and importance of interdisciplinary studies in archaeological research; dating techniques, methods of survey, types of excavation techniques, analysis and interpretation; cultural resource management; professional ethics; and selected topics of cultural sequences of prehistoric societies. (C-ID ANTH 150) (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 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. (C-ID ARTH 110) (CSU, UC)

ART 102 (3.0 Units)
History 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. (C-ID ARTH 120) (CSU, UC)

ART 104 (3.0 Units)
History of Modern Art
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
A broad analytical survey of modern art with a focus on painting, sculpture and architecture. The course will emphasize the examination and comparison of art styles of the twentieth century. (CSU, UC)

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

ART 110 (3.0 Units)
Design
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
Fundamentals of design and composition; theory of color. Includes organization and utilization of basic elements through design problems. Additional materials fee applies. (C-ID ARTS 100) (CSU, UC)

ART 112 (3.0 Units)
Design
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
Introduction to the concepts, applications, and historical references related to three-dimensional design and spatial composition, including the study of the elements and organizing principles of design as they apply to three-dimensional space and form. Development of a visual vocabulary for creative expression through lecture presentations and use of appropriate materials for non-representational three-dimensional studio projects. Additional materials fee applies. (C-ID ARTS 101) (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 grade of "C" or better.
Exploration of artistic concepts, styles, and creative expression related to intermediate-level drawing, focusing on complex subject matter and concepts using a variety of drawing mediums, techniques, and methodologies. Students in this course will build on fundamental drawing skills to develop personalized approaches to content and materials in exercises covering multiple historical and contemporary approaches to drawing. Additional materials fee applies. (C-ID ARTS 205) (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. (C-ID ARTS 210) (CSU, UC)

ART 126 (3.0 Units)
Painting II
Term Hours: 36 Lec, 72 Lab
Letter Grade Only
Prerequisite: ART 124 with a grade of "C" or better.
A continuation of Art 124. Includes further development of the understanding of contemporary art issues and topics. Additional materials fee 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. 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). (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. 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 grade of "C" or better.
An exploration of personalized approaches to content and materials to address complex subject matter and concepts using a variety of drawing mediums, techniques, and methodologies at an advanced intermediate drawing level. Additional materials fee applies. (CSU, UC)

ART 222 (3.0 Units)
Drawing IV
Term Hours: 36 Lec, 72 Lab
Letter Grade Only
Prerequisite: ART 120, ART 122 and ART 220 with a grade of "C" or better.
A continued exploration of personalized approaches to content and materials to address complex subject matter and concepts using a variety of drawing mediums, techniques, and methodologies at an advanced drawing level. Students in this course will develop a 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
Prerequisite: ART 124 and ART 126 with a grade of "C" or better.
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
Prerequisite: ART 124, ART 126 and ART 224 with a grade of "C" or better.
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 260 (3.0 Units)
Advertising/Graphic Design
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
Recommended Preparation: ART 100 and ART 102
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. (CSU)

ART 262 (3.0 Units)
Gallery Display I
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. (CSU)

ART 263 (3.0 Units)
Gallery Display II
Term Hours: 18 Lec, 72 Lab
Letter Grade Only
Prerequisite: ART 262 with a grade of "C" or better.
A continuation of ART 262, Gallery Display I, a course in basic gallery exhibition techniques, with emphasis on hanging and arrangement of artworks, art exhibit promotion. (CSU)

ART 264 (3.0 Units)
Gallery Display III
Term Hours: 18 Lec, 72 Lab
Letter Grade Only
Prerequisite: ART 263 with a grade of "C" or better.
A continuation of ART 263, Gallery Display II, with a focus on art gallery exhibition design, installation, and promotion. (CSU)

ART 270 (3.0 Units)
Photography - Intermediate
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
Prerequisite: ART 170 with a grade of "C" or better.
Recommended Preparation: ART 110
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. Additional materials fee applies. (CSU, UC)

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)

ATHLETICS

ATHL 120 (3.0 Units)
Intercollegiate Cross Country & PE
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for the preparation and training involved with intercollegiate cross country competition. Maximum credit twelve units. (Formerly ATHL 156, Formerly PE 156) (CSU) (UC credit limited. See a counselor.)

ATHL 121 (3.0 Units)
Out-of-Season Intercollegiate Cross Country & PE
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for off-season conditioning/skill development for intercollegiate cross country. Maximum credit twelve units. (CSU)

ATHL 122 (3.0 Units)
Intercollegiate Volleyball & PE
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for preparation and training involved with intercollegiate volleyball competition. Maximum credit twelve units. (Formerly ATHL 155, Formerly PE 155) (CSU) (UC credit limited. See a counselor.)

ATHL 123 (3.0 Units)
Out-of-Season Intercollegiate Volleyball & PE
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for off-season conditioning/skill development for intercollegiate volleyball. Maximum credit twelve units. (CSU)

ATHL 124 (3.0 Units)
Intercollegiate Men's Soccer & PE
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for preparation and training involved with intercollegiate soccer competition. Maximum credit twelve units. (Formerly ATHL 152, Formerly PE 152) (CSU) (UC credit limited. See a counselor.)

ATHL 125 (3.0 Units)
Out-of-Season Intercollegiate Men's Soccer & PE
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisites: Eligibility will be determined by CCCAA rules.
This class is designed for off-season conditioning/skill development for intercollegiate soccer. Maximum credit twelve units. (CSU)

ATHL 126 (3.0 Units)
Intercollegiate Women's Soccer & PE
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for preparation and training involved with intercollegiate soccer competition. Maximum credit twelve units. (CSU)

ATHL 127 (3.0 Units)
Out-of-Season Intercollegiate Women's Soccer & PE
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for off-season conditioning/skill development for intercollegiate soccer. Maximum credit twelve units. (CSU)

ATHL 128 (3.0 Units)
Intercollegiate Men's Basketball & PE 1
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determine by CCCAA rules.
This class is designed for preparation and training involved with intercollegiate basketball competition. Maximum credit twelve units. (Formerly ATHL 157) (CSU)(UC credit limited. See a counselor.)

ATHL 129 (3.0 Units)
Intercollegiate Men's Basketball & PE 2
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for preparation and training involved with intercollegiate basketball competition. Maximum credit twelve units. (CSU)

ATHL 130 (3.0 Units)
Intercollegiate Women's Basketball & PE 1
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for preparation and training involved with intercollegiate basketball competition. Maximum credit twelve units. (Formerly ATHL 158) (CSU) (UC credit limited. See a counselor.)

ATHL 131 (3.0 Units)
Intercollegiate Women's Basketball & PE 2
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for preparation and training involved with intercollegiate basketball competition. Maximum credit twelve units. (CSU)

ATHL 132 (3.0 Units)
Out-of-Season Intercollegiate Baseball & PE
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for off-season conditioning/skill development for intercollegiate baseball. Maximum credit twelve units. (CSU)

ATHL 133 (3.0 Units)
Intercollegiate Baseball & PE
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for the preparation and training involved with intercollegiate baseball competition. Maximum credit twelve units. (Formerly ATHL 150) (CSU, UC credit limited. See a counselor.)

ATHL 134 (3.0 Units)
Out-of-Season Intercollegiate Softball & PE
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for off-season conditioning/skill development for intercollegiate softball. Maximum credit twelve units. (CSU)

ATHL 135 (3.0 Units)
Intercollegiate Softball & PE
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for the preparation and training involved with intercollegiate softball competition. Maximum credit twelve units. (Formerly PE 153, Formerly ATHL 153) (CSU) (UC credit limited. See a counselor.)

ATHL 136 (3.0 Units)
Out-of-Season Intercollegiate Men's Tennis & PE
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for off-season conditioning/skill development for intercollegiate tennis. Maximum credit twelve units. (CSU)

ATHL 137 (3.0 Units)
Intercollegiate Men's Tennis & PE
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for preparation and training involved with intercollegiate tennis competition. Maximum credit twelve units. (Formerly PE 154, formerly ATHL 154) (CSU) (UC credit limited. See a counselor.)

ATHL 138 (3.0 Units)
Out-of-Season Intercollegiate Women's Tennis & PE
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for off-season conditioning/skill development of intercollegiate tennis. Maximum credit twelve units. (CSU)

ATHL 139 (3.0 Units)
Intercollegiate Women's Tennis & PE
Term Hours: 0 Lec, 175 Lab
Letter Grade Only
Prerequisite: Eligibility will be determined by CCCAA rules.
This class is designed for preparation and training involved with intercollegiate tennis. Maximum credit twelve units. (CSU)

AUTOMOTIVE TECHNOLOGY

AU T 075 (3.0 Units)
Basic Shop Skills
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
This is a comprehensive course in tool usage, nomenclature, and terminology of tools and equipment for the beginning student in the technologies. The course is for the student who has not developed a background in industrial technology, as well as for the bilingual student who wants to improve his/her technical vocabulary. (Nontransferable, AA/AS degree only)

AU T 085 (3.0 Units)
Automotive Maintenance and Repair
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
This course is designed for students with little or no previous automotive maintenance training. This course consists of automotive safety, demonstrations of emergency situations, such as changing a flat tire, replacing burned-out lamps, and performing general vehicle maintenance and repairs. In addition, the student will learn the correct and safe way to use basic hand tools. (Nontransferable, AA/AS degree only)

AU T 110 (4.0 Units)
Engine Technology
Term Hours: 36 Lec, 108 Lab
Letter Grade Only
For the student with little or no internal combustion engine background. Design, construction, and mechanical function of internal combustion engines including lubricating, cooling, fuel, and electrical systems, and an understanding of the basic sciences relevant to such topics as internal combustion and energy conversion. (CSU)

AU T 120 (4.0 Units)
Automotive Machine Shop
Term Hours: 36 Lec, 108 Lab
Letter Grade Only
Recommended Preparation: AU T 110
Review and advanced study of the internal combustion engine and service procedures in the use of automotive machine shop tools and machines for rebuilding the engine. (CSU)

AU T 122 (4.0 Units)
High Performance Engine Blueprinting I
Term Hours: 36 Lec, 108 Lab
Letter Grade Only
Recommended Preparation: AU T 110
The student learns advanced set-up and operation procedures of machine shop equipment for engine blueprinting. The student will learn the procedures used to complete the machining of the engine block and component parts. The differences between standard and high performance applications will be highlighted. (Nontransferable, AA/AS degree only)

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

AU T 130 (3.0 Units)
Automotive Electronics I
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
This introductory course covers the study of automotive electrical systems including basic diagnosis and service procedures on the various systems. Student will analyze, test, and repair electrical problems using electronic equipment. Topics also include the construction, operation, and function of automotive electrical components. (CSU)

AU T 135 (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. (Formerly AU T 070) (Nontransferable, AA/AS degree only)

AU T 140 (4.0 Units)
Diesel Engine Maintenance and Repair
Term Hours: 54 Lec, 54 Lab
Letter Grade Only
This course provides the theory and skills for repairing diesel engines and related accessories. The proper procedures for disassembling, measuring, and rebuilding are covered. The complete engine is reviewed with emphasis on the status of engine components and to return it to service after proper reassembly, adjustments and testing. (Nontransferable, AA/AS degree only)

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

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

AU T 160 (3.0 Units)
Engine Performance Tune-up
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
This course provides operating theory and hands-on experience in the operation, diagnosis, and repair of automotive fuel systems with carburetors, basic throttle body and part fuel injection systems. Students learn to use the four gas analyzers. (CSU)

AU T 165 (4.0 Units)
Diesel Preventive Maintenance and Inspection
Term Hours: 54 Lec, 54 Lab
Letter Grade Only
The Diesel Preventive Maintenance and Inspection course trains students in: theory, design, operation, troubleshooting and maintenance of heavy duty truck and farm equipment. Upon successful completion of this course, the students are prepared to take the Automotive Service Excellence (ASE) Certification Exam in Preventive Maintenance T8. (Nontransferable, AA/AS degree only)

AU T 170 (3.0 Units)
Engine Diagnosis and Repair
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
This course provides advanced operation and hands-on experience of electronic injection systems and their sub-assemblies. Students will learn operation and repairs of sensors and actuators or injection systems. This class emphasizes diagnostic procedure and techniques using basic and sophisticated test equipment. (CSU)

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

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

AU T 220 (4.0 Units)
Mechanical Automatic Transmissions
Term Hours: 36 Lec, 108 Lab
Letter Grade Only
Design, construction, mechanical, and hydraulic function and repairs of the automatic transmission. (CSU)

AU T 230 (3.0 Units)
Emissions Control and Computer Systems
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
This is an advanced engine computer and drivability course. It emphasizes diagnostic procedure and techniques using all types of equipment and procedures. This class brings together all knowledge from AU T 160 and AU T 170, and allows students to diagnose all systems of the automobile. Upon successful completion of this course students are prepared to take the Automotive Service Excellence (ASE) certification examination in electronics, engine performance, and advanced engine performance. (CSU)

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

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

AU T 240 (3.0 Units)
Diesel Engine Tune-up
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
This course covers the principles of tune-up and the procedures for servicing the diesel engine. Practical emphasis is placed on proper dis-assembling, diagnosis calibrating, and testing different types of pumps and injectors. Proper servicing procedures will be followed in servic-ing, testing, and analyzing the fuel system and electrical circuits. (CSU)

AU T 250 (4.0 Units)
Electronic Automatic Transmissions
Term Hours: 36 Lec, 108 Lab
Letter Grade Only
Prerequisite: AU T 220 with a grade of "C" or better.
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)

AU T 285 (4.0 Units)
Alternative Fuels for Diesel Engines
Term Hours: 36 Lec, 108 Lab.
Letter Grade Only..
Prerequisite: AU T 110 with a grade of "C" or better.
This course provides an introduction to various alternative fuel technologies being used in heavy duty diesel engines and farm equipment. This course covers basic operation with ethanol, biodiesel, and compressed natural gas (CNG), as well as liquefied natural gas (LPG) combined with fuel cell technologies. In addition, this course prepares the student to take Exam Certification in alternative fuels (ASE FI). (Nontransferable, AA/AS degree only)

BIOLOGY

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, or BIOL 206 with a grade of "C" or better. (Nontransferable, AA/AS degree only)

BIOL 092 (4.0 Units)
Microbiology for Advanced Placement of VN to RN 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 091 with a grade of "C" or better.
A comprehensive one semester general biology course for non-majors. Includes life from the molecular to the organismic level of both plants and animals and their interactions within the environment. Special emphasis is put on human biology within appropriate areas of study. Appropriate for general education as well as nursing, pre-professional, and higher level biology courses. Includes laboratory component. (CSU) (UC credit limited. See a counselor.)

BIOL 120 (4.0 Units)
General Zoology I
Term Hours: 36 Lec, 108 Lab
Letter Grade Only
Prerequisite: MATH 091 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 091 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 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 150 (3.0 Units)
Human Genetics
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: MATH 091 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 091 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 091 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. (C-ID BIOL 140) (CSU, UC)

BIOL 200 (4.0 Units)
Human Anatomy and Physiology I
Term Hours: 36 Lec, 108 Lab
Letter Grade Only
Prerequisite: MATH 091 and CHEM 100 and BIOL 100 or BIOL 122 or BIOL 180 or BIOL 182 with a grades of "C" or better; or MATH 091 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. This course may require the use of human cadavers for observation and/or dissection. Preparatory for RN program and paramedical programs. (CSU) (UC credit limited. See a counselor.)

BIOL 202 (4.0 Units)
Human Anatomy and Physiology II
Term Hours: 36 Lec, 108 Lab
Letter Grade Only
Prerequisite: BIOL 200 with a grade of "C" or better; or MATH 091 with a grade of "C" or better and current California LVN or RN license.
Part two of a two semester study of the structure and function of the human organism, from the molecular to the gross level. This course may require the use of human cadavers for observation and/or dissection. Preparatory for RN program and paramedical programs. (CSU) (UC credit limited. See a counselor.)

BIOL 204 (4.0 Units)
Human Anatomy
Term Hours: 36 Lec, 108 Lab
Letter Grade Only
Prerequisite: MATH 091 and BIOL 100 or BIOL 122 or BIOL 180 or BIOL 182, with grades of "C" or better; or MATH 091 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. This course may require the use of human cadavers for observation and/or dissection. (C-ID BIOL 110B) (CSU) (UC credit limited. See a counselor.)

BIOL 206 (4.0 Units)
Human Physiology
Term Hours: 36 Lec, 108 Lab
Letter Grade Only
Prerequisite: MATH 091 and CHEM 100 and BIOL 204 with grades of "C" or better; or MATH 091 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. This course may require the use of human cadavers for observation and/or dissection. (C-ID BIOL 120B) (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 091 and CHEM 100 and BIOL 100 or BIOL 120 or BIOL 180 or BIOL 182 with grades of "C" or better; or MATH 091 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. OSHA card processing fee will apply. (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 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
Recommended Preparation: BLDC 140, BLDC 160, and Construction Trades experience.
This course will present the subjects of planning and cost estimating to develop the knowledge of material determination, production quantities, and costs associated with construction. Included will be the understanding of the relationship between planning, estimating, and cost accounting in construction. (Nontransferable, AA/AS degree only)

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

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

BUSINESS ADMINISTRATION

BUS 059 (3.0 Units)
Practical English for the Workplace
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Multi-level, multi-content (such as employability skills, workplace survival skills, and workplace social skills) for students wanting to have careers in vocational areas, such as Automotive Technologies, Office Technologies, and Early Childhood Education. The course emphasizes practical vocabulary and grammar of English within the context of the workplace. (Formerly ENGL 060) (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 063 and/or ENGL 009
This course will provide comprehensive instruction in the correct use of English grammar with an emphasis on business number style skills; and provide an opportunity to apply correct usage and style and effective techniques for writing in today's work world. (Nontransferable. AA/AS degree only)

BUS 063 (3.0 Units)
Essentials in Workplace Communication
Term Hours: 54 Lec, 0 Lab
Letter Grade or Pass/No Pass
This course emphasizes the basic elements and skills necessary for effective workplace communications. Topics covered include: Business vocabulary and pronunciation as well as spelling and punctuation. Special attention will be devoted to improving written, oral and presentation competencies. (Formerly BUS 060) (Nontransferable. AA/AS degree only)

BUS 100 (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. (Formerly BUS 010) (Nontransferable, AA/AS degree only)

BUS 105 (3.0 Units)
Business Office Math
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
This course provides practice with a wide range of mathematical procedures used in various business applications. Students use a combination of estimation, ten-key calculators, and computers. Topics include a review of basic math skills, banking, invoices, markup and markdown, discounts, interest, promissory notes, and credit. (Nontransferable, AA/AS degree only)

BUS 108 (3.0 Units)
Volunteer Income Tax Preparation (VITA)
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
This course is designated to teach preparation of tax returns. Training includes preparation of Federal and California income tax returns and use the tax preparation software. Topics include: Filing Status, Dependency, Exemptions, Basic Deductions, Adjustments, Earned Income Credit, Child Tax Credit and Dependent Care Credit. (CSU)

BUS 120 (3.0 Units)
Retail Management
Term Hours: 54 Lec, 0 Lab
Letter Grade or Pass/No Pass
Students study the methods and management of retail selling. The course includes techniques and attitude for selling, product analysis and sales, and the significance of human relations in selling. This course is recommended for students who wish to explore a career in retail management. (CSU)

BUS 122 (2.0 Units)
Business Plan Development
Term Hours: 36 Lec, 0 Lab
Letter Grade Only
This course will introduce the development of effective business plans through the assessment of a business concept, collection and organization of market research data, and the preparation of financial projections for businesses. (Nontransferable, AA/AS degree only)

BUS 124 (3.0 Units)
Introduction to Business
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
A basic beginning college course that introduces U.S. business and industry. Includes the nature and importance of business, forms of business ownership, organization, management, finance, marketing, government and legal regulations, pricing and taxes. Class activities include participation in team-building concepts. (C-ID BUS 110) (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. (C-ID BUS 120) (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 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 145 (3.0 Units)
Human Resources Management
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Introduction to human resource management concepts and applications. Concepts covered include the following: The impact HR management has on the organization in terms of human resource activities, global human resource strategies, social and organizational realities, legal implications affecting people at work, union / non-union practices, comparable work, employee compensation and benefits, and employee rights. (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. (CSU)

BUS 164 (3.0 Units)
Microsoft Word for the Workplace
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 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. Microsoft Access is used extensively. (CSU)

BUS 172 (3.0 Units)
Office Procedures for the Workplace
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 180 (4.0 Units)
Microsoft Office Suite for the Workplace
Term Hours: 54 Lec, 36 Lab
Letter Grade or Pass/No Pass
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 210 (4.0 Units)
Principles of Financial Accounting
Term Hours: 72 Lec, 18 Lab
Letter Grade Only
Recommended Preparation: MATH 081 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. (C-ID ACCT 110) (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 better
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. (C-ID ACCT 120) (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 240 (3.0 Units)
Computer Accounting-Quickbooks
Term Hours: 36 Lec, 36 Lab
Letter Grade or Pass/No Pass
Prerequisite: BUS 210 or BUS 100 (Formerly BUS 010) with a grade of "C" or better.
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)

BUS 260 (3.0 Units)
Business Communications
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: ENGL 110 with a grade of "C" or better.
This course will teach the principles of effective communication applied to business letters, memos, e-mail, resumes, and analytical reports. It includes the organization, writing, and presentation of business documents and incorporates the basic principles of speaking effectively for business. (C-ID BUS 115) (CSU)

CHEMISTRY

CHEM 100 (4.0 Units)
Introduction to Chemistry
Term Hours: 54 Lec, 54 Lab
Letter Grade Only
Prerequisite: MATH 091 with a grade of "C" or better.
Elementary principles of general inorganic chemistry, a preparatory course for CHEM 200. 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. (C-ID CHEM 101) (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 091 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. (C-ID CHEM 110) (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 better.
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. (C-ID CHEM 120S) (CSU, UC)

CHEM 204 (5.0 Units)
Organic Chemistry I
Term Hours: 54 Lec, 108 Lab
Letter Grade Only
Prerequisite: CHEM 200 with a grade of "C" or better.
This course is a study of various reaction mechanisms and properties of hydrocarbons, alkyl halides, alcohols, 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, ketones, 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 and is intended for students majoring in chemistry, biology, and pre-medical sciences. (CSU, UC)

CHILD DEVELOPMENT

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. (C-ID ECE 120) (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. (C-ID ECE 220) (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. (C-ID CDEV 110) (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) (C-ID CDEV 100) (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. (C-ID ECE 130) (CSU)

CDEV 106 (3.0 Units)
Observation and Assessment
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: CDEV 104 with a grade of "C" or better.
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. (C-ID ECE 200) (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. (C-ID ECE 230) (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 preschool child through exploration of various process-oriented art media, activities, and experiences. Emphasis is placed on the development of age appropriate art curriculum activities, basic teaching skills, guidance techniques, equipment and materials. (CSU)

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
This course provides a basic understanding of "developmentally appropriate", and is designed to offer the most current thinking about which practices are most effective in promoting young children's learning and development. The course content is designed to meet educational requirements of Title 22 and Title V Professional Growth Permit requirements. (CSU)

CDEV 200 (4.0 Units)
Practicum - Field Experience
Term Hours: 36 Lec, 126 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; and approval from the Child Development Department.
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. The Child Development Program's Comprehensive Portfolio will be assembled and presented in this course. This course requires lecture and supervised lab. (C-ID ECE 210) (CSU)

CDEV 210 (3.0 Units)
Administration and Supervision
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: 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
Prerequisite: CDEV 210 with a grade of "C" or better.
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)

CDEV 240 (3.0 Units)
Introduction to Children with Special Needs
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: CDEV 104 with a grade of "C" or better.
Introduces the variations in development of children with special needs ages birth through eight and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to children with special needs, and the identification and referral process. (CSU)

CDEV 241 (3.0 Units)
Curriculum and Strategies for Children with Special Needs
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: CDEV 240 with a grade of "C" or better.
This course covers curriculum and intervention strategies for working with children with special needs in partnership with their families. Focuses on the use of observation and assessment in meeting the individualized needs of children in inclusive and natural environments. Includes the role of teacher as a professional working with families, collaboration with interdisciplinary teams, and cultural competence. (CSU)

COMMUNICATION STUDIES

COMM 100 (3.0 Units)
Oral Communication
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: ENGL 009 or ENGL 099 or higher
Training in the fundamental processes involved in oral communication with emphasis on organizing material, outlining, constructing, and delivering various forms of speeches. (Formerly SPCH 100) (C-ID COMM 110) (CSU, UC)

COMM 110 (3.0 Units)
Advanced Oral Communication
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: COMM 100 (Formerly SPCH 100) with a grade of "C" or better.
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. (Formerly SPCH 110) (CSU, UC)

COMM 125 (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. (Formerly SPCH 120) (C-ID COMM 130) (CSU, UC)

COMM 130 (3.0 Units)
Small Group Communication
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: COMM 100 (Formerly 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. (Formerly SPCH 130) (C-ID COMM 140) (CSU, UC)

COMM 150 (3.0 Units)
Intercultural Communication
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: ENGL 009 or ENGL 099 and COMM 100 (Formerly SPCH 100)
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. (Formerly SPCH 150) (C-ID COMM 150) (CSU, UC)

COMM 180 (3.0 Units)
Argumentation and Debate
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: COMM 100 (Formerly SPCH 100)
An introduction to debate, with emphasis on the creation and refutation of arguments concerning current social, political, and legal issues. (Formerly SPCH 180) (C-ID COMM 120) (CSU, UC)

COMPUTER INFORMATION SYSTEMS

CIS 050 (1.0 Unit)
Online Learning - An Orientation
Term Hours: 9 Lec, 27 Lab
Pass/No Pass
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. (C-ID BUS 140 or ITIS 120) (CSU, UC)

CIS 102 (1.0 Unit)
Computer Applications Laboratory
Term Hours: 0 Lec, 54 Lab
Pass/No Pass
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. (CSU)

CIS 115 (1.0 Unit)
Microsoft Outlook
Term Hours: 18 Lec, 0 Lab
Letter Grade or Pass/No Pass
This course is an introduction to the features of Microsoft Outlook. Students learn how to manage email messages, schedule appointments, organize and manage the calendar, contact lists, tasks, and customize Outlook. This course is designed for students intending to use Microsoft Outlook for academic, professional and/or personal purposes. (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
This course is a continuation of CIS 124, Microsoft Excel. The course develops expertise in worksheet applications, teaches the use of graphic presentations and develops database use. (CSU)

CIS 128 (1.0 Unit)
Microsoft 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
This course provides students with the basic knowledge of how to create, modify, and present PowerPoint slide shows. Students add and modify both text and graphics; insert and modify information, graphics, and multimedia. This course is designed for students and professionals acquiring or updating basic skills in creating and editing professional presentations. (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 adding, modifying and creating templates; adding, importing, and formatting data for tables and charts; customizing presentations; adding interactivity features; and incorporating PowerPoint with other applications. This course is intended for all students and professionals who wish to acquire skills in digital presentations. (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 138 (3.0 Units)
Computer Applications in Agriculture
Term Hours: 36 Lec, 54 Lab
Letter Grade or Pass/No Pass
Computer use in the workplace with emphasis on agribusiness situations. Computer applications including word-processing, spreadsheets, databases, and presentation managers will be covered. Also included will be accessing information through the Internet and World Wide Web, telecommunications, an introduction to web page design and other software appropriate to agribusiness. Application of these concepts and methods through hands-on projects developing computer-based solutions for agriculture business. (CID AG-AB 108) (Same as AG 138) (CSU)

CIS 149 (3.0 Units)
Computer Graphics - 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 150 (3.0 Units)
Computer Graphics - Illustrator
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: CIS 101
This course provides an introduction to the process of creating vector graphics images using Adobe Illustrator, the industry standard vector graphics editor for graphics professionals. Adobe Illustrator is used for creating graphic design, typography, logos, and sharp-edged artistic illustration on the computer. (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
Recommended Preparation: Demonstrate an ability to search on the Internet, identify computer components, understand, in principle, plug-and-play, and recognize issues relating to ethical computer usage.
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 162 (4.0 Units)
Cisco CCNA Discovery 1: Introduction to Networks
Term Hours: 54 Lec, 54 Lab
Letter Grade Only
This course introduces the architecture, structure, functions, components and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. (Nontransferable, AA/AS degree only)

CIS 163 (4.0 Units)
Cisco CCNA Discovery 2: Routing and Switching Essentials
Term Hours: 54 Lec, 54 Lab
Letter Grade Only
Prerequisite: CIS 162 with grades of "C" or better.
Recommended Preparation: CIS 160
This course describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. (Nontransferable, AA/AS degree only)

CIS 164 (4.0 Units)
Cisco CCNA Discovery 3: Scaling Networks
Term Hours: 54 Lec, 54 Lab
Letter Grade Only
Prerequisite: CIS 163 with a grade of "C" or better.
This course describes the architecture, components, and operations of routers and switches in a large and complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network. (Nontransferable, AA/AS degree only)

CIS 165 (4.0 Units)
Cisco CCNA Discovery 4: Connecting Networks
Term Hours: 54 Lec, 54 Lab
Letter Grade Only
Prerequisite: CIS 164 with a grade of "C" or better.
This course describes the architecture, components, and operations of routers and switches in a large and complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network. (Nontransferable, AA/AS degree only)

CIS 180 (3.0 Units)
Advanced Computer Graphics
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
This course provides advanced techniques and knowledge in computer graphics using Adobe Photoshop and Adobe Illustrator, the industry standard software for computer graphic design. Emphasis is placed on the computer as a design tool to assemble type and manipulate images for the printed page and Web publication. The course covers advanced layers techniques; advanced compositing; and advanced web publishing techniques. (CSU)

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

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

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

CIS 213 (3.0 Units)
JavaScript Fundamentals for Web Development
Term Hours: 45 Lec, 27 Lab
Letter Grade Only
This course is a practical study of the JavaScript scripting language for Web development. Students use Javascript and jQuery in the Web Page creation process to enhance the user experience. (CSU)

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

COMPUTER SCIENCE

CS 170 (3.0 Units)
Introduction to Unix/Linux
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
Recommended Preparation: Familiarity with computers and at least one operating system: Windows, Mac OS, or Unix/Linux.
A hands-on introduction to Unix operating systems including Linux, Solaris, Android, and Mac and iPhone OS X. 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 091 or equivalent, and CIS 202 or equivalent.
This course provides an introduction to object-oriented programming using the Java programming language. Topics included (but not limited to) in this course are fundamentals of structured computer programming, primitive data types, expressions, control statements, methods, arrays, searching, sorting, and debugging. Emphasis is on learning through hands-on programming exercise. (CSU, UC)

CS 221 (3.0 Units)
Introduction to Object Oriented Programming in Java
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
Introduction to programming and software engineering for computer science majors and computer professionals. A systematic approach to the design, implementation, and management of robust Java computer programs. Course emphasizes Object Oriented programming design, programming documentation, testing and debugging techniques. (C-ID COMP 122) (CSU, UC)

CS 230 (4.0 Units)
Intermediate Object-Oriented Programming Using Java
Term Hours: 54 Lec, 54 Lab
Letter Grade Only
Prerequisites: 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 231 (3.0 Units)
Introduction to Data Structures
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
Prerequisite: CS 221 or CS 230 with a grade of "C" or better.
Design and implementation of larger projects using object-oriented software engineering principles with emphasis on definition and use of data structures including: arrays, stacks, queues, linked lists, trees, hash tables, dictionaries, sets and graphs using JAVA. Standard methods are used for sorting, searching and analyzing the relative efficiency of algorithms (Big-O notation). (C-ID COMP 132) (CSU, UC)

CS 280 (4.0 Units)
Assembly Language and Machine Organization
Term Hours: 54 Lec, 54 Lab
Letter Grade Only
Prerequisites: CS 220 or equivalent, and MATH 091 or equivalent, with grades of "C" or better.
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. (C-ID COMP 142) (CSU, UC)

CS 281 (3.0 Units)
Assembly Language and Machine Organization
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
Prerequisites: CS 220 or CS 221 and MATH 091 or equivalent, with grades of "C" or better.
Basics of machine architecture, machine language, assembly language and operating systems. Representations of data types and structures along with instruction representation and execution, addressing modes, subroutine calls and return mechanisms, fixed point systems, and basic organization of the von Neumann machine are included. (C-ID COMP 142) (CSU, UC)

CORRECTIONAL SCIENCE

CSI 100 (3.0 Units)
Introduction to Correctional Systems
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: Completion of ENGL 009 and READ 019 (Formerly ENGL 019).
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. (C-ID AJ 200) (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 009 and READ 019 (Formerly ENGL 019).
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 150 (15.0 Units)
Corrections Officer Core Course
Term Hours: 90 Lec, 540 Lab
Letter Grade Only
Prerequisite: Students must meet California State and Federal guidelines for the ability to carry and/or possess a firearm. This includes: no Felony Convictions, no Domestic Violence convictions of any kind, pass a Department of Justice (DOJ) background check and a drug screening test.
This course is designed to provide the entry-level student with the training necessary to become a correctional officer. This course exceeds the minimum mandated number of hours of training, as set forth by the California State Board of Corrections, and is designed for the current role of corrections in today's society. This course emphasizes the following: Facility operations, criminal law, ethics, inmate supervision and welfare, defensive tactics and techniques, and physical training. This course is intended for students interested in entering into employment as correctional officers at County Jails and privately operated Prisons. (Nontransferable, nondegree applicable)

CSI 206 (3.0 Units)
Correctional Interviewing and Counseling
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: Completion of ENGL 009 and READ 019 (Formerly ENGL 019).
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 208 (3.0 Units)
Control and Supervision of Inmates
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: Completion of ENGL 009 and READ 019 (Formerly ENGL 019).
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 100 (3.0 Units)
Personal and Career Development
Term Hours: 54 Lec, 0 Lab
Letter Grade Only 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 collegiate and life planning goals. Topics include college orientation, study skills, cultural diversity awareness, self-evaluation of personal characteristics related to educational success, and transitioning to college life. The central theme of the course is a holistic approach to the individuality of students in higher education, which include race, ethnicity, gender, sexual orientation and age. Strategies covered will include skills such as creative goal setting, note-taking, listening, time-management, learning styles, critical thinking, test taking, library and financial resources and educational program planning. Course is recommended for new and continuing students. (CSU)

DISABLED STUDENT PROGRAMS AND SERVICES

DSPS 018 (0.5 Unit)
Educational Assessment and Evaluation
Term Hours: 0 Lec, 18 Lab
Pass/No Pass
Recommended Preparation: Must be enrolled in at least one academic or vocational class.
This course is designed specifically to assist the learning disabled student who has the potential to succeed in a community college by assessing, interpreting, and diagnosing his/her learning strengths and weaknesses for the purpose of identifying learning disabilities. Guidelines mandated by the California Community College system will be utilized to determine eligibility for learning disabilities services and accommodations. Upon completion of this course, students will be better prepared to assert their needs and practice coping strategies pertinent to their unique situation. (Nontransferable, nondegree applicable)

DSPS 050 (1.0 Unit)
Adapted Keyboarding
Term Hours: 0 Lec, 18 Lab
Pass/No Pass
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 Unit)
Computer Access Evaluation
Term Hours: 0 Lec, 18 Lab
Pass/No Pass
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
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.
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
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
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)

ECONOMICS

ECON 101 (3.0 Units)
Introduction to Micro Economics
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisites: MATH 091 with a grade of "C" or better.
This introductory course focuses on choices of individuals and individual firms and what guides decision making in market-based economies. Emphasis given to scarcity, opportunity cost, resource allocation, supply and demand, elasticity, market failures, cost theory, price and output determination under various market structures, factor markets and the principles of economic analysis. (C-ID ECON 201) (CSU, UC)

ECON 102 (3.0 Units)
Introduction to Macro Economics
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisites: MATH 091 with a grade of "C" or better.
This introductory course focuses on choices faced by society and the impact those choices have on the aggregate economy. Emphasis given to inflation and unemployment, national income determination, economic growth, aggregate supply and aggregate demand, money and banking, monetary and fiscal policies, and international trade. (C-ID ECON 202) (CSU, UC)

EDUCATION

EDUC 200 (3.0 Units)
Introduction to Elementary Classroom Teaching
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: ENGL 110 with a grade of "C" or better.
This course introduces students to the concepts and issues related to teaching diverse learners in today's contemporary schools, Kindergarten through Grade 12 (K-12). Topics include teaching as a profession and career, historical and philosophical foundations of the American education system, contemporary educational issues, California's content standards and frameworks, and teacher performance standards. In addition to class time, the course requires a minimum of 30 hours of structured fieldwork in public school elementary classrooms that represent California's diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher. (C-ID EDUC 200) (CSU)

EDUC 202 (1.0 Unit)
Tutor Training
Term Hours: 18 Lec, 0 Lab
Pass/No Pass
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)

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 with a grade of "C" or better.
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 with a grade of "C" or better.
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 with a grade of "C" or better.
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 meets NSF, IID and NABCEP guidelines; this course provides the electrical student with instruction in basic principles of electrical safety. Instruction will include an introduction to power plants and grid functions, 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 151 (4.0 Units)
Solar Electrical Systems
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: RNEW 150 (Formerly EWIR 150) with a grade of "C" or better.
Recommended Preparation: EWIR 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)

ELECTRONICS

ELTR 120 (4.0 Units)
Electronic Devices
Term Hours: 54 Lec, 54 Lab
Letter Grade Only
Recommended Preparation: MATH 081
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, and 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. (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). (CSU)

EMERGENCY MEDICAL TECHNICIAN-PARAMEDIC

EMTP 200 (9.0 Units)
Introduction to Advanced Prehospital Care - Paramedic
Term Hours: 144 Lec, 54 Lab
Letter Grade Only
Recommended Preparation: AHP 100
Prerequisites: High school graduate or successful completion of GED. Possess a current American Heart Association basic cardiac life support card at the healthcare provider level. Current certification as an EMT I or NREMT-Basic registration or be currently registered as an EMT Advanced with the National Registry of Emergency Medical Technicians. One year of field or hospital experience as an EMT I. Successful completion of the paramedic program application process. Acceptance into program by the Paramedic Program Director and Paramedic Program Medical Director.
This course is the first 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 current U.S. Department of Transportation's National Education Standards for Paramedics. This course will cover: EMS Preparatory, including EMS systems, roles and responsibilities of the paramedic, the well-being of the paramedic, illness and injury prevention, medical/legal issues, ethics, general principles of pathophysiology, pharmacology, venous access and medication administration, therapeutic communications and life span development Airway Management and Ventilation. Patient Assessment, including history taking, techniques of physical examination, clinical decision making, communications and documentation. This course teaches paramedic treatments and skills associated with the above core content. This program is accredited by the CAAHEP. (CSU)

EMTP 202 (3.5 Units)
Trauma Emergencies - Paramedic
Term Hours: 54 Lec, 27 Lab
Letter Grade Only
Prerequisites: EMTP 200 or equivalent as determined by the Paramedic Program Director.
This course is the second 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 current U.S. Department of Transportation's National Education Standards for Paramedics. Trauma, including trauma systems, mechanism of injury, hemorrhage and shock, soft tissue trauma, burns, head/facial trauma, spinal trauma, thoracic trauma, abdominal trauma, and musculoskeletal trauma. This course teaches paramedic treatments and skills associated with the above core content. This program is accredited by the CAAHEP. (CSU)

EMTP 204 (6.0 Units)
Medical Emergencies - Paramedic
Term Hours: 99 Lec, 27 Lab
Letter Grade Only
Prerequisites: EMTP 202 or equivalent as determined by the Paramedic Program 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 current U.S. Department of Transportation's National Education Standards for Paramedics. This course is designed to allow progression of the paramedic student in advanced didactic and skills training. This course will cover all aspects of medical emergencies, including: pulmonology, cardiology, neurology, endocrinology, allergy & anaphylaxis, gastroenterology, urology & nephrology, toxicology & substance abuse, hematology, environmental emergencies, infectious disease, assault, the challenged patient, and acute interventions for chronic-care patients. This program is accredited by the CAAHEP. (CSU)

EMTP 206 (5.5 Units)
Emergency Medical Services Operations - Paramedic
Term Hours: 81 Lec, 54 Lab
Letter Grade Only
Prerequisite: EMTP 204 or equivalent as determined by the Paramedic Program Director.
This course is the fourth 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 current U.S. Department of Transportation's National Education Standards for Paramedics. 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 & operations, 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 and the Pediatric Advanced Life Support (PALS) Course, as well as paramedic treatments and skills associated with the above core content. This course also features Pre-hospital Trauma Life Support (PHTLS). This program is accredited by the CAAHEP. (CSU).

EMTP 225 (3.5 Units)
EMT - Paramedic Clinical I
Term Hours: 0 Lec, 189 Lab
Letter Grade Only
Prerequisites: 1. Successful completion of EMTP 200, EMTP 202, EMTP 204, EMTP 206; 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 provides the clinical training to prepare the paramedic student intern to render pre-hospital advanced life support within an organized EMS system based on course content equivalent to the U.S. Department of Transportation's National EMS Education Standards (2009). The student will put together all didactic and skills training to address medical and traumatic emergencies in multiple hospital departments: critical care, emergency, obstetrics, nursery, pediatrics, and surgery. The student will observe overall administration of advanced life support care in a hospital and will assume responsibilities for advanced assessments, treatment, medication administration, use of equipment, and communication skills under the supervision of a registered nurse, physician assistant, or physician approved by the Local EMS Authority. The course is intense, requires more than usual study hours, TBA requirements, and the student's total dedication for successful completion. 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
Prerequisites: 1. Successful completion of EMTP 200, EMTP 202, EMTP 204, EMTP 206, 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 provides the first phase of field internship training to prepare the paramedic student intern to render pre-hospital advanced life support (ALS) within an organized EMS system based on course content equivalent to the U.S. Department of Transportation's National EMS Education Standards for Paramedics (2009). The student will progress through record keeping and increasing patient care responsibilities from observation of a team to working as a team member to functioning as a team leader in actual patient care in the pre-hospital setting. The student experience will cover all aspects of medical and traumatic emergencies, advanced patient assessments, and advanced care on an ALS vehicle under the supervision of a licensed paramedic approved by the Local EMS Authority. In addition, the student must complete 30 advanced life support contacts as defined in the Calif. Code of Regulations, Title 22, Div. 9. This course is an intense one, requires more than usual study hours, TBA requirements, and the student's total dedication for successful completion. 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
Prerequisites: 1. Successful completion of EMTP 200, EMTP 202, EMTP 204, EMTP 206, 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 last segment of field internship training to prepare the paramedic student intern to render pre-hospital advanced life support (ALS) within an organized EMS system based on course content equivalent to the U.S. Department of Transportation's National EMS Education Standards for Paramedics (2009). The student will perform as an ALS provider, under a paramedic preceptor, in the pre-hospital setting using all training and skills acquired; advanced assessment skills, communication skills, use of advanced life support equipment, medications and procedures. In addition, the student must complete a minimum of 10 advanced life support contacts as defined in the Calif. Code of Regulations, Title 22, Div. 9. This is an intense course, requiring more than usual study hours, TBA requirements, and student dedication for successful completion. This program is accredited by the CAAHEP. (CSU)

ENGINEERING

ENGR 210 (3.0 Units)
Statics
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: PHYS 200 with a grade of "C" or better, 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
Prerequisite: 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 the Credit by Examination section in this Catalog.) Upon passing the comprehensive examination, the student will have earned credit for the course in question, thereby satisfying the prerequisite.

ENGL 008 (4.0 Units)
Basic English Composition I
Term Hours: 72 Lec, 0 Lab
Letter Grade or Pass/No Pass
Prerequisite: ESL 005 with a grade of "C" or better or appropriate placement.
Recommended Preparation: Concurrent enrollment in an appropriate reading class.
Preparation for ENGL 009. Provides developmental instruction approaching the college level in paragraph and short essay writing. (Nontransferable, nondegree applicable)

ENGL 009 (4.0 Units)
Basic English Composition II
Term Hours: 72 Lec, 0 Lab
Letter Grade or Pass/No Pass
Prerequisite: ENGL 008 or ENGL 097 or ENGL 098 with a grade of "C" or better or appropriate placement.
Preparation for ENGL 110. The course seeks to facilitate the student's mastery of the short essay at the college level. The course follows in sequence from ENGL 008 (ENGL 098). (Nontransferable, nondegree applicable)

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 059 (3.0 Units)
Grammar and Usage Review
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Review of traditional/structural grammar; review of sentence types and sentence combinations; review of usage rules regarding punctuation, mechanics, capitalization; review of spelling rules; practice with sentence, paragraph, essay and/or journal writing done by the student. (Nontransferable, nondegree applicable)

ENGL 102 (3.0 Units)
Introduction to Literature
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: ENGL 110 or ENGL 101 with a grade of "C" or better.
Introduction to the study of poetry, fiction and drama, with further practice in writing. (C-ID ENGL 120) (CSU, UC)

ENGL 110 (4.0 Units)
Composition and Reading
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: ENGL 009 or ENGL 010 or ENGL 099 with a grade of "C" or better or appropriate placement.
Recommended Preparation: READ 019 (Formerly ENGL 019)
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. (C-ID ENGL 100) (CSU, UC)

ENGL 201 (3.0 Units)
Advanced Composition
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: ENGL 110 or ENGL 101 with a grade of "C" or better.
Emphasizes critical thinking in reading and writing beyond that achieved in ENGL 110. Written argumentation will focus on deduction and induction, an understanding of the fallacies of language and thought, the application of valid evidence, and refutation. (C-ID ENGL 105) (CSU, UC)

ENGL 220 (3.0 Units)
Survey of American Literature I
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: ENGL 110 or 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. (C-ID ENGL 130) (CSU, UC)

ENGL 221 (3.0 Units)
Survey of American Literature II
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: ENGL 110 or ENGL 101 with a grade of "C" or better.
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. (C-ID ENGL 135) (CSU, UC)

ENGL 222 (3.0 Units)
Survey of World Literature I
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: ENGL 110 or ENGL 101 with a grade of "C" or better.
Recommended Preparation: ENGL 102
A study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Africa, Asia and other areas, from antiquity to the mid or late seventeenth century. (C-ID ENGL 140) (CSU, UC)

ENGL 223 (3.0 Units)
Survey of World Literature II
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: ENGL 110 or ENGL 101 with a grade of "C" or better.
Recommended Preparation: ENGL 102
A study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Africa, Asia and other areas, from the mid or late seventeenth century to the present. (C-ID ENGL 145) (CSU, UC)

ENGL 224 (3.0 Units)
Survey of British Literature I
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: ENGL 110 or ENGL 101 with a grade of "C" or better.
Recommended Preparation: ENGL 102.
Study of works of major writers from the British Isles up to the end of the 18th century. (C-ID ENGL 160) (CSU, UC)

ENGL 225 (3.0 Units)
Survey of British Literature II
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: ENGL 110 or ENGL 101 with a grade of "C" or better.
Recommended Preparation: ENGL 102
Study of works of major writers from the British Isles from the late 18th century to contemporary British and post-colonial texts. May be taken before ENGL 224. (C-ID ENGL 165) (CSU, UC)

ENGL 226 (3.0 Units)
Introduction to Mythology
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: ENGL 110 or 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 250 (3.0 Units)
Creative Writing
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: ENGL 110 or 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 writing of imaginative literature, including short story, poetry, and writing for the stage and screen. The student will be expected to attempt all genres of imaginative writing. The student may elect to specialize in one of the genres in order to achieve maximum progress. (C-ID ENGL 200) (CSU, UC)

ENGL 270 (3.0 Units)
Introduction to Linguistics
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisites: ENGL 110 or ENGL 101 with a grade of "C" or better.
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 the Credit by Examination section in this 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. (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 with a grade of "C" or better 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. (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 with a grade of "C" or better 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. (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 with a grade of "C" or better 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. (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 with a grade of "C" or better 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
ESL 010 is a self-paced 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 any level of ESL. (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 with a grade of "C" or better or appropriate placement.
Recommended Companion Courses: ESL 002, ESL 041, ESL 042, ESL 051, ESL 052
ESL 012 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 with a grade of "C" or better or appropriate placement.
Recommended Companion Courses: ESL 003
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 with a grade of "C" or better or appropriate placement.
Recommended Companion Courses: ESL 004
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 with a grade of "C" or better 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 (3.0 Units)
ESL Reading 1
Term Hours: 54 Lec, 0 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. (Nontransferable, nondegree applicable)

ESL 024 (3.0 Units)
ESL Reading 2
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisites: ESL 023 with a grade of "C" or better or appropriate placement.
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. (Nontransferable, nondegree applicable)

ESL 025 (3.0 Units)
ESL Reading 3
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisites: ESL 024 with a grade of "C" or better 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 on understanding text understanding text structure and overall comprehension of a variety of texts. Further development of reading skills will also be emphasized. (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 002 with a "C"or better or ACCUPLACER score 4003
This course is designed to review and reinforce proper use of the simple present, present progressive, simple past, and past progressive verb tenses. It is a recommended supplement for students in Low Intermediate and Intermediate ESL courses. (Nontransferable, nondegree applicable)

ESL 037 (1.0 Unit)
Verb Review 7
Term Hours: 18 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: ESL 004 with a "C"or better or ACCUPLACER score 4005.
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 with a "C" or better or ACCUPLACER score 4005.
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 051 (1.0 Unit)
Pronunciation 1
Term Hours: 18 Lec, 0 Lab
Letter Grade Only
Recommended Companion Courses: ESL 001 and 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 Onl
Recommended Companion Courses: ESL 002 and 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 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 an 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)

ENVIRONMENTAL SCIENCE

ENVS 110 (3.0 Units)
Environmental Science
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: ENGL 009 or ENGL 099 and READ 019 (Formerly ENGL 019) or ENGL 089.
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 biosphere, air, water, land, and environmental problems faced by the Imperial Valley that have regional and global consequences, and some of the proposed solutions. Field trips and activities may be included in this course. (Same as AG 110) (CSU, UC)

FILM STUDIES

FILM 130 (3.0 Units)
Introduction to Film
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
This course will introduce the art, technology, language, and appreciation of film. Students will examine form and content, aesthetics and meaning, and history and culture. Students also will learn about basic cinematic techniques and structures as well as the roles of producer, director, actor, and cinematography. (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 106 (1.0 Unit)
First Aid/CPR – Public Safety First Responder
Term Hours: 18 Lec, 5.4 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 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 121 (1.0 Unit)
ICS-200 Basic Incident Command
Term Hours: 18 Lec, 0 Lab
Letter Grade Only
Recommended preparation: ENGL 110 or 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 Unit)
Confined Space Awareness
Term Hours: 9 Lec, 0 Lab
Letter Grade Only
Recommended preparation: ENGL 110 or 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 140 (9.5 Units)
Fire – First Responders
Term Hours: 153 Lec, 54 Lab
Letter Grade Only
Prerequisite: Successful completion of the application process and acceptance into the Fire Academy by the Fire Technology Coordinator. Successfully pass the Basic Fire Academy Entrance Exam with a proficiency score of 70% or better and pass the Physical Agility Test.
Fire-First Responders encompasses the disciplines of EMT, IS100, & IS700. This course is designed for individuals who will come in contact with victims of illness or injury primarily in an emergency, pre-hospital environment. This course is of value to all emergency service personnel, including ambulance personnel, law enforcement personnel, fire services personnel, hospital emergency department personnel, and other rescue personnel. Topics include roles and responsibilities of first responders, as well as 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 will be included. IS 100- Introduction to the Incident Command System introduces the Incident Command System (ICS) and provides the foundation for higher level ICS training. This course describes the history, features and principles, and organizational structure of the Incident Command System. It also explains the relationship between ICS and the National Incident Management System (NIMS). IS 700- This course introduces and overviews the National Incident Management System (NIMS). NIMS provides a consistent nationwide template to enable all government, private-sector, and nongovernmental organizations to work together during domestic incidents. (Nontransferable, AA/AS Degree only)

FIRE 142 (10.0 Units)
Firefighter Academy 1
Term Hours: 126 Lec, 162 Lab
Letter Grade Only
Prerequisites: FIRE 140 with a grade of "C" or better.
This course is designed to teach individuals to respond to and assist victims experiencing a minor or major fire, a need for rescue, or in a disaster or hazardous situation. FIRE 142 provides the basic skills and knowledge to be a productive member of a fire department team and complies with OSFM, NFPA standards for Firefighter 1 certification. Additional materials fee applies. (Nontransferable, AA/AS Degree only)

FIRE 144 (3.0 Units)
Firefighter Academy 2
Term Hours: 45 Lec, 40.5 Lab
Letter Grade Only
Prerequisite: FIRE 142 with a grade of "C" or better.
This course introduces students to the hazards presented by vehicle extrication incident management and procedures; extrication tools and equipment; fire incident communications and reporting; fire extinguishing and control; and fire prevention and preparedness. Meets Office of the State Fire Marshal (OSFM) standards. (Nontransferable, AA/AS Degree only)

FIRE 220 (2.5 Units)
Fire Apparatus Driver/Operator 1A
Term Hours: 45 Lec, 0 Lab
Letter Grade Only
Prerequisite: CA Class "B" firefighter restricted license minimum.
Recommended Preparation: Fire Fighting I training recommended.
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 positioning 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 Driver/Operator 1B
Term Hours: 45 Lec, 0 Lab
Letter Grade Only
Prerequisites: CA Class "B" firefighting restricted license minimum, and FIRE 220 with a grade of "C" or better.
Recommended Preparation: Fire Fighting I training recommended.
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 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 240 (1.5 Units)
Training Instructor 1A: Cognitive Lesson Delivery
Term Hours: 27 Lec, 0 Lab
Letter Grade Only
This is the first of a three-course series.
Topics include methods and techniques for training in accordance with the latest concepts in career education; selecting, adapting, organizing, and using instructional materials appropriate for teaching cognitive lessons; criteria and methods to evaluate teaching and learning efficiency; and an opportunity to apply major principles of learning through teaching demonstrations. Two (2) student instructor teaching demonstrations are required of all. (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 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)

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. (C-ID GEOG 110) (CSU, UC)

GEOG 102 (3.0 Units)
Cultural Geography
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
This course is a study of diverse human populations, cultural origins, cultural diffusion, and contemporary special variations. The topics studied include: demographics, languages, religions, urbanization, modification of landscapes, political geography, ethnicity and nationalism, economic systems, and development. (C-ID GEOG 120) (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. (C-ID GEOG 125) (CSU, UC)

GEOG 111 (1.0 Units)
Physical Geography Laboratory
Term Hours: 0 Lec, 54 Lab
Letter Grade Only
Prerequisite: GEOG 100 or Concurrent Enrollment in GEOG 100.
GEOG 111 is the laboratory course in Physical Geography. The course provides laboratory exercises in topics covered in GEOG 100, Physical Geography, which covers the Earth's atmosphere, hydrosphere, biosphere and lithosphere. The laboratory experience includes the observation and interpretation of weather data, statistical analysis of climate data, map analysis and interpretation, analysis of earth materials, along with landform processes, plate tectonics, and biogeography. (C-ID GEOG 111) (CSU, UC)

GEOG 140 (3.0 Units)
California Geography
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
This course thematically covers various issues faced by the state of California that are relevant to the discipline of geography, including water resources, vegetation patterns, landforms and geomorphology, climate, agriculture, cultural landscapes, ethnic diversity, urbanization and economic patterns. Special attention is paid to human-environment interactions that have resulted in the formation of California's unique human and cultural landscapes. (C-ID GEOG 140) (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. (C-ID GEOL 101) (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. (C-ID GEOL 120) (CSU) (UC credit limited. See a Counselor.)

GEOL 130 (3.0 Units)
Climate and Weather
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
This course will engage the student in learning the key concepts and scientific principles of Climate Science the Earth's atmosphere by analyzing interactions among and between the Earth's Systems as matter and energy are continuously exchanged. Topics included in the course are atmospheric structure and composition, solar radiation and energy balances, temperature, seasonal changes, moisture in the atmosphere, clouds and fog, precipitation, air pressure, winds, air masses, fronts and cyclonic activity, weather forecasting, climates and climate change. This course also focuses on the Earth and its inhabitants have changed though time, how humans interact with the aforementioned topics, and strategies to counter negative impacts associated with global climate change. (CSU, UC)

HEALTH EDUCATION

HE 100 (2.0 Units)
Health Education – Military Service
Term Hours: 0 Lec, 0 Lab
Pass/No Pass
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
This course studies aspects of physical, intellectual, social, emotional, spiritual and environmental health. Emphasis is placed on the development of attitudes and practices of a preventive lifestyle for healthy living and optimal wellness. Specific instructional areas include chronic diseases, physical activity, nutrition, weight management, birth control methods, human sexuality, alcohol, tobacco, illicit drug abuse, stress, and factors that contribute to wellness and longevity. Experience in personal health assessment and the changing of health behaviors is also stressed. This course satisfies the State of California Health Education requirement for a teaching credential. (CSU, UC)

HE 104 (3.0 Units)
First Aid and CPR
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
This course is designed to provide both the theory and demonstration of First Aid, CPR, and AED techniques. Giving 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. (C-ID KIN 101) (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. (C-ID HIST 150) (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. (C-ID HIST 160) (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. (C-ID HIST 170) (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. (C-ID HIST 180) (CSU, UC)

HIST 120 (3.0 Units)
United States History: Prehistory to Reconstruction
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. (C-ID HIST 130) (CSU, UC)

HIST 121 (3.0 Units)
United States History: Reconstruction to the Present
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
This course is a survey of American history from 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. (C-ID HIST 140) (CSU, UC)

HIST 130 (3.0 Units)
Early Latin America
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: READ 019 (Formerly ENGL 019)
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
Recommended Preparation: READ 019 (Formerly ENGL 019)
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
Recommended Preparation: READ 019 (Formerly ENGL 019)
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 110). 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 110); 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 225 (3.0 Units)
Mexican American History
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: ENGL 110 or 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)

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 performing arts. Examination of humanistic values and how they are reflected in the development of arts and cultures from around the world. (CSU, UC)

HUM 226 (3.0 Units)
Introduction to Mythology
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: ENGL 110 or 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 262 (3.0 Units)
Introduction to Chicano/a Studies
Term Hours: 54 Lec, 0 Lab
Letter Grade Only 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
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
Prerequisite: JRN 100 with a grade of "C" or better.
Recommended Preparation: ENGL 110 or ENGL 101 and 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)

LATINA/LATINO STUDIES

LAS 130 (3.0 Units)
Early Latin America
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: READ 019 (Formerly ENGL 019)
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
Recommended Preparation: READ 019 (Formerly ENGL 019)
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
Recommended Preparation: READ 019 (Formerly ENGL 019)
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: ENGL 110 or 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 110 or ENGL 101. 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 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 110 or ENGL 101. 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 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 110 or ENGL 101. 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 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 110 or ENGL 101. 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 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 110 or ENGL 101. 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 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 Only
Recommended Preparation: ENGL 110 or ENGL 101. 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 110 or ENGL 101. 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 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 110 or ENGL 101. 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. Course covers definition of technical terms used in probate, trusts and estate administration, sources of law relating to wills, trusts, and estate administration, types and forms of property and property ownership, the specific duties of a probate legal assistant, rules and general patterns of succession under the UPC, the effect of prior transactions on interstate succession, process for determining validity of wills and the basic requirements of a valid will. Various types of wills authorized by law, papers and other evidences that are components of a will, preparation and execution of a formal attested will, revocation of wills, disposition of property under will, methods for settling a decedent's estate, informal estate proceedings under the UPC, specific tasks performed by a legal assistant in formal estate administration, procedures for payment of decedent's debts and claims, special proceedings in probate, preparation and filing of tax returns, procedural requirements of formal accountings, role of legal assistant in the distribution of testate estates, nature and administration of trusts, guardianships, and conservator ships, and the professional responsibilities of a probate legal assistant. (CSU)

LEGL 127 (3.0 Units)
Family Law
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: ENGL 110 and ENGL 101. 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 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 110 or ENGL 101. 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 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 110 or ENGL 101. 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. 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 the Credit by Examination section in this 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 060 (1.0 Unit)
Math Lab
Term Hours: 0 Lec, 36 Lab
Pass/No Pass Only
Concurrent enrollment in MATH 071, MATH 081, or MATH 091 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. (Non-transferable, nondegree applicable)

MATH 061 (3.0 Units)
Basic Mathematics
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
An introduction the concepts needed for further study in Mathematics. Topics covered include operations with whole and rational numbers, decimals, percents, ratio and proportions, and their applications. (Non-transferable, nondegree applicable)

MATH 071 (3.0 Units)
Pre-algebra
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: MATH 061 with a grade of "C" or better or appropriate placement.
An introduction to the mathematical concepts needed for further study in Algebra. Topics covered will include the real number system, variable expressions, solving equations, measurement and conversions, and geometry. (Nontransferable, nondegree applicable)

MATH 081 (4.0 Units)
Beginning Algebra
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: MATH 071 with a grade of "C" or better or appropriate placement.
An introduction to the concepts of Algebra. Topics covered include solving equations, polynomials, factoring, rational expressions, graphs and linear equations, systems of linear equations, and inequalities. (Nontransferable, nondegree applicable)

MATH 091 (5.0 Units)
Intermediate Algebra
Term Hours: 90 Lec, 0 Lab
Letter Grade Only
Prerequisite: MATH 081 with a grade of "C" or better or appropriate placement.
A further study of the concepts of algebra. Topics covered include linear and quadratic equations, relations, functions and graphs, systems of equations, logarithms and exponential functions, conic sections, and sequences and series. (Nontransferable, AA/AS degree only)

MATH 110 (3.0 Units)
Number Systems in Elementary Mathematics
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: MATH 091 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 091 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 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 091 with a grade of "C" or better or appropriate placement.
The use of probability techniques, hypothesis testing, and predictive techniques to facilitate decision-making. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and supervised use and practice in the application of technology for statistical analysis including the production of graphics, finding confidence intervals, test statistics, and regression lines, as well as the interpretation of the relevance of the statistical findings. Applications using data from disciplines including business, social sciences, psychology, life science, health science, and education. (C-ID MATH 110) (CSU, UC)

MATH 122 (3.0 Units)
Finite Mathematics
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: MATH 091 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, economics, and social sciences. 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 systems of linear inequalities, matrices, linear programming, mathematics of finance, sets and Venn diagrams, combinatorics, and an introduction to probability and statistics. (CSU, UC)

MATH 140 (3.0 Units)
Trigonometry
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: MATH 091 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 091 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.
This course presents a study of the techniques of calculus with emphasis placed on the application of these concepts to business and management related problems. Students take this course to prepare for courses for which calculus is recommended and/or required, as well as to study the ideas and concepts of advanced mathematics as applied to a modern computerized society. Topics covered include pre-calculus concepts, applications of derivatives and integrals of functions including polynomials, rational, exponential and logarithmic functions, differential equations, and functions of several variables. (C-ID MATH 140) (CSU) (UC credit limited. See a Counselor.)

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 better 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 (4.0 Units)
Analytic Geometry and Calculus I
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: MATH 190 or equivalent with a grade of "C" or better or appropriate placement.
A first course in differential and integral calculus of a single variable: functions; limits and continuity; techniques and applications of differentiation and integration; Fundamental Theorem of Calculus. Primarily for Science, Technology, Engineering and Math Majors. (C-ID MATH 210) (CSU) (UC credit limited. See a counselor.)

MATH 194 (4.0 Units)
Analytic Geometry and Calculus II
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: MATH 192 with a grade of "C" or better.
A second course in differential and integral calculus of a single variable: integration; techniques of integration; infinite sequences and series; polar and parametric equations; applications of integration. Primarily for Science, Technology, Engineering & Math Majors. (C-ID MATH 220) (CSU, UC)

MATH 210 (4.0 Units)
Multivariable Calculus
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: MATH 194 with a grade of "C" or better.
Vector valued functions, calculus of functions of more than one variable, partial derivatives, multiple integration, Green's Theorem, Stokes' Theorem, divergence theorem. (C-ID MATH 230) (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.
The course is an introduction to ordinary differential equations including both quantitative and qualitative methods as well as applications from a variety of disciplines. Introduces the theoretical aspects of differential equations, including first, second, and higher order differential equations and their applications, establishing when solution(s) exist, and techniques for obtaining solutions, including, series solutions, and singular points, Laplace transforms and linear systems. (C-ID MATH 240) (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. This course develops the techniques and theory needed to solve and classify systems of linear equations. Solution techniques include row operations, Gaussian elimination, and matrix algebra. Investigates the properties of vectors in two and three dimensions, leading to the notion of an abstract vector space. Vector space and matrix theory are presented including topics such as inner products, norms, orthogonality, eigenvalues, eigenspaces, and linear transformations. Selected applications of linear algebra are included. (C-ID MATH 250) (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 and relations, functions, number theory, induction, recursion, counting principles and probability trees, permutations, combinations, introduction to computer programming, and graph theory. (C-ID MATH 160) (CSU, UC)

MATH 241 (1.0 Unit)
Mathematics Software – MATLAB
Term Hours: 18 Lec, 0 Lab
Letter Grade Only
Prerequisite: MATH 192 with a grade of "C" or better.
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)

MEDICAL ASSISTANT

MA 070 (4.5 Units)
Administrative Medical Assistant I
Term Hours: 81 Lec, 0 Lab
Letter Grade Only
Prerequisite: AHP 100 with a grade of "C" or better.
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. (Formerly AHP 070) (Nontransferable, AA/AS degree only)

MA 072 (4.5 Units)
Administrative Medical Assistant II
Term Hours: 81 Lec, 0 Lab
Letter Grade Only
Prerequisite: MA 070 (Formerly AHP 070) with a grade of "C" or better.
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. (Formerly AHP 072) (Nontransferable, AA/AS degree only.)

MA 074 (2.0 Units)
Clinical Externship I
Term Hours: 0 Lec, 108 Lab
Letter Grade Only
Prerequisite: MA 072 (Formerly AHP 072) with a grade of "C" or better.
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. (Formerly AHP 074) (Nontransferable, AA/AS degree only)

MA 080 (3.5 Units)
Specimen Collection & Laboratory Procedures
Term Hours: 54 Lec, 27 Lab
Letter Grade Only
Prerequisite: AHP 100 with a grade of "C" or better.
Prerequisite: MA 074 (Formerly AHP 074) with a grade of "C" or better.
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. (Formerly AHP 080) (Nontransferable, AA/AS degree only)

MA 082 (3.5 Units)
Exam Room Procedures
Term Hours: 54 Lec, 27 Lab
Letter Grade Only
Prerequisite: MA 080 (Formerly AHP 080) with a grade of "C" or better.
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. (Formerly AHP 082) (Nontransferable, AA/AS degree only)

MA 084 (3.5 Units)
Pharmacology and Administration of Medication
Term Hours: 54 Lec, 27 Lab
Letter Grade Only
Prerequisite: MA 082 (Formerly AHP 082) with a grade of "C" or better.
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. (Formerly AHP 084) (Nontransferable, AA/AS degree only)

MA 086 (2.0 Units)
Clinical Externship II
Term Hours: 0 Lec, 108 Lab
Letter Grade Only
Prerequisite: MA 084 (Formerly AHP 084) with a grade of "C" or better.
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. (Formerly AHP 086) (Nontransferable, AA/AS degree only)

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. (C-ID MUS 110) (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 listening experience. Students study the expressive materials of music and the major forms of music literature including music of the Middle Ages, Renaissance, Baroque, Classical, and Romantic eras as well as 20th century, Jazz, American music, Rock, and Non-Western music. Emphasis placed on the skills and understanding necessary for lifelong music listening experiences. (C-ID MUS 100) (CSU, UC)

MUS 110 (1.0 Unit)
Beginning Musicianship I
Term Hours: 18 Lec, 0 Lab
Letter Grade Only
This course is 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, and keyboard harmony. (C-ID MUS 125) (CSU, UC)

MUS 112 (1.0 Unit)
Beginning Musicianship II
Term Hours: 18 Lec, 0 Lab
Letter Grade Only
This course continues the development of basic skills and theory of music through sight-singing, ear-training, analysis, and dictation. (C-ID MUS 135) (CSU, UC)

MUS 120 (3.0 Units)
Beginning Harmony I
Term Hours: 54 Lec, 0 Lab
Letter Grade Only or Pass/No Pass
Sight-singing, dictation and keyboard harmony. Traditional diatonic harmony, four-voice writing, analysis. (C-ID MUS 120) (CSU, UC)

MUS 122 (3.0 Units)
Beginning Harmony II
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
A continuation of MUS 120. (C-ID MUS 130) (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
Prerequisite: MUS 140 with a grade of "C" or better.
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
Prerequisite: MUS 150 with a grade of "C" or better.
A continuation of MUS 150. (CSU, UC)

MUS 156 (1.0 Unit)
Beginning College Chorus
Term Hours: 36 Lec, 18 Lab
Letter Grade Only
Prerequisite: Audition Required.
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 two units. (CSU, UC)

MUS 157 (1.0 Unit)
Intermediate College Chorus
Term Hours: 36 Lec, 18 Lab
Letter Grade Only
Prerequisite: MUS 156 with a grade of "C" or better.
Continuation of MUS 156. This course will further students development in choir performance. Maximum credit two 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
Prerequisite: MUS 160 with a grade of "C" or better.
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 163 (1.0 Unit)
Applied Music I
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. (CSU, UC)

MUS 164 (1.0 Unit)
Applied Music II
Term Hours: 18 Lec, 9 Lab
Letter Grade Only
Prerequisite: MUS 163 with a grade of "C" or better.
A continuation of private lessons in a chosen performance medium at a 2nd semester college level. 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. (CSU, UC)

MUS 165 (1.0 Unit)
Applied Music III
Term Hours: 18 Lec, 9 Lab
Letter Grade Only
Prerequisite: MUS 164 with a grade of "C" or better.
A continuation of private lessons in a chosen performance medium at a 3nd semester college level. 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. (CSU, UC)

MUS 166 (1.0 Unit)
Applied Music IV
Term Hours: 18 Lec, 9 Lab
Letter Grade Only
Prerequisite: MUS 165 with a grade of "C" or better.
A continuation of private lessons in a chosen performance medium at a 4nd semester college level. 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. (CSU, UC)

MUS 171 (1.0 Unit)
Chamber Orchestra
Term Hours: 36 Lec, 18 Lab
Letter Grade Only
Prerequisite: Audition Required.
A study and performance of literature for a small orchestra. Performances in local communities and on campus are required. Fieldtrips to other musical events will be included to help performers develop efficient listening and evaluating practices. Solo and ensemble rehearsals and performances are included. Maximum credit four units. (CSU, UC)

MUS 172 (1.0 Unit)
College - Community Band
Term Hours: 36 Lec, 18 Lab
Letter Grade Only
Prerequisite: Audition Required.
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
Prerequisite: Audition Required.
A performance organization specializing in jazz/rock literature for brass, woodwind, stringed and percussion instruments. Designed for musicians who wish to explore, rehearse, and perform jazz/rock literature of all styles and periods. Maximum credit four units. (CSU)

MUS 177 (1.0 Unit)
Stage Band
Term Hours: 36 Lec, 18 Lab
Letter Grade Only
Prerequisite: Audition Required.
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. (C-ID MUS 180) (CSU, UC)

MUS 178 (1.0 Unit)
Symphony Orchestra
Term Hours: 36 Lec, 18 Lab
Letter Grade Only
Prerequisite: Audition Required.
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. (C-ID MUS 180) (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
Prerequisite: MUS 182 with a grade of "C" or better.
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 210 (1.0 Unit)
Intermediate Musicianship I
Term Hours: 18 Lec, 0 Lab
Letter Grade Only
This course applies and develops rhythmic, melodic, and harmonic skills through sight-singing, ear-training, analysis, and dictation. (C-ID MUS 145) (CSU, UC)

MUS 212 (1.0 Unit)
Intermediate Musicianship II
Term Hours: 18 Lec, 0 Lab
Letter Grade Only
This course continues to apply and develop rhythmic, melodic, and harmonic skills through sight-singing, ear-training, analysis, and dictation. (C-ID MUS 155) (CSU, UC)

MUS 220 (3.0 Units)
Intermediate Harmony I
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: MUS 122 with a grade of "C" or better.
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. (C-ID MUS 140) (CSU, UC)

MUS 222 (3.0 Units)
Intermediate Harmony II
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
A continuation of MUS 220. (C-ID MUS 150) (CSU, UC)

MUS 240 (1.0 Unit)
Intermediate Group Piano I
Term Hours: 18 Lec, 36 Lab
Letter Grade Only
Prerequisite: MUS 142 with a grade of "C" or better.
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
Prerequisite: MUS 240 with a grade of "C" or better.
A continuation of MUS 240. (CSU, UC)

MUS 250 (1.0 Unit)
Intermediate Voice I
Term Hours: 18 Lec, 36 Lab
Letter Grade Only
Prerequisite: MUS 152 with a grade of "C" or better.
A continuation of MUS 152. (CSU, UC)

MUS 252 (1.0 Unit)
Intermediate Voice II
Term Hours: 18 Lec, 36 Lab
Letter Grade Only
Prerequisite: MUS 250 with a grade of "C" or better.
A continuation of MUS 250. (CSU, UC)

MUS 260 (1.0 Unit)
Intermediate Guitar I
Term Hours: 18 Lec, 36 Lab
Letter Grade Only
Prerequisite: MUS 162 with a grade of "C" or better.
A continuation of MUS 162 with the following additions: 1. Reading music (standard musical notation); 2. A thorough presentations of bar chords including sevenths, ninths, diminished, augmented, and various altered chords; 3. Advanced picking techniques. (CSU)

MUS 262 (1.0 Unit)
Intermediate Guitar II
Term Hours: 18 Lec, 36 Lab
Letter Grade Only
Prerequisite: MUS 260 with a grade of "C" or better.
A continuation of MUS 260 with the following additions: 1. Reading music (standard musical notation); 2. A thorough presentations of bar chords including sevenths, ninths, diminished, augmented, and various altered chords; 3. Advanced picking techniques. (CSU)

NURSING: ASSOCIATE DEGREE

NURS 080 (1.5 Units)
Introduction to Nursing
Term Hours: 18 Lec, 27 Lab
Pass/No Pass Only
Prerequisite: Admission to the Imperial Valley College Nursing Program
This course is designed to provide the pre-nursing student with an introduction to the study of nursing. The student will participate in sessions to explore and become familiar with the expectations and realities of being a nursing student. Utilizing a variety of topics, activities, examinations and general information, it is designed to assist the student to develop strategies to be successful in the nursing program. The philosophy of the nursing program and role of the student in developing accountability, integrity and meeting the standards of academic and clinical conduct are discussed. (Nontransferable, nondegree applicable)

NURS 081 (1.0 Unit)
Individual Studies 1st Semester: Nursing
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 first semester nursing knowledge, skills and concepts through individualized, computer enhanced and nursing tutor mediated instruction. (Nontransferable, nondegree applicable)

NURS 082 (1.0 Unit)
Individual Studies 2nd Semester: Nursing
Term Hours: 0 Lec, 54 Lab
Pass/No Pass
Prerequisite: Admission to the Nursing Program and completion of first semester courses.
This course is designed to facilitate the learning of second semester nursing knowledge, skills and concepts through individualized, computer enhanced and nursing tutor mediated instruction. (Nontransferable, nondegree applicable)

NURS 083 (1.0 Unit)
Individual Studies 3rd Semester: Nursing
Term Hours: 0 Lec, 54 Lab
Pass/No Pass
Prerequisite: Admission to the Nursing Program and completion of second semester courses.
This course is designed to facilitate the learning of third semester nursing knowledge, skills and concepts through individualized, computer enhanced and nursing tutor mediated instruction. (Nontransferable, nondegree applicable)

NURS 084 (1.0 Unit)
Individual Studies 4th Semester: Nursing
Term Hours: 0 Lec, 54 Lab
Pass/No Pass
Prerequisite: Admission to the Nursing Program and completion of third semester courses.
This course is designed to facilitate the learning of fourth semester nursing knowledge, skills and concepts through individualized, computer enhanced and nursing tutor mediated instruction. (Nontransferable, nondegree applicable)

NURS 100 (1.0 Unit)
Medication Mathematics
Term Hours: 18 Lec, 0 Lab
Letter Grade Only
Recommended preparation: MATH 091 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. (CSU)

NURS 107 (7.0 Units)
Nursing Fundamentals
Term Hours: 45 Lec, 243 Lab
Letter Grade Only
Prerequisite: Admission to the Associate Degree Nursing Program.
This course provides an introduction to nursing and roles of the nurse, as well as profession related and patient care concepts. Emphasis is placed on the knowledge and skills needed to provide safe, quality care. The theoretical foundation for basic assessment and nursing skills is presented, and the student is given an opportunity to demonstrate these skills in a clinical laboratory setting. An introduction to the nursing process provides a decision-making framework to assist students in developing effective clinical judgment skills. Utilization of the nursing process and developmental theories (primary Erikson), focus on the nursing role as communicator, provider of care, and patient teacher. Parameters of health are defined. Nursing fundamental concepts are introduced related to physical and psychological assessment needs of the normal and ill individual; pain assessment, interventions and evaluation; basic nutrition; and stress and adaptation concepts. Variations in nursing care for individuals of different socio-economic and cultural backgrounds will be explored. Additional materials fee applies. (CSU)

NURS 109 (1.0 Units)
Pharmacology
Term Hours: 18 Lec, 0 Lab
Letter Grade Only
Prerequisite: Admission to the Associate Degree Nursing Program.
Corequisite: NURS 107.
This course provides an introduction to the principles of pharmacology, including: pharmacokinetics, pharmacodynamics, medication interactions and potential adverse medication reactions. Emphasis will be placed on life span issues, gene therapy, medication errors, substance abuse, Immunizations and OTC, herbal and dietary medications. Focus will be on nursing actions and rationale for the concepts and medications covered. (CSU)

NURS 123 (1.5 Units)
Pharmacology II
Term Hours: 27 Lec, 0 Lab
Letter Grade Only
Prerequisite: NURS 109 with a grade of "C" or better.
Corequisite: NURS 127.
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 127 (4.0 Units)
Medical Surgical Nursing I
Term Hours: 36 Lec, 108 Lab
Letter Grade Only
Prerequisite: NURS 108 and NURS 109 with a grade of "C" or better.
Corequisite: NURS 123.
This course focuses on the care of adult clients with health alterations that require medical and/or surgical intervention. Emphasis is placed on the care of clients with alterations in selected body functions. Concepts of client centered care, cultural sensitivity, informatics, safe practice, and professionalism are integrated throughout the course. Clinical experiences provide the student an opportunity to apply theoretical concepts and implement safe client care to adults in a variety of settings. Additional materials fee applies. (CSU)

NURS 128 (4.0 Units)
Nursing Care of the Childbearing Family
Term Hours: 36 Lec, 108 Lab
Letter Grade Only
Prerequisite: NURS 127 with a grade of "C" or better.
This course provides an integrative, family-centered approach to the care of women of childbearing age and newborns. Emphasis is placed on normal and high-risk pregnancies, normal growth and development, family dynamics, reproductive health changes, and the promotion of healthy behaviors in patients. Clinical experiences provide the student an opportunity to apply theoretical concepts and implement safe patient care to women of childbearing age and newborns in selected settings. (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.
Corequisite: BIOL 220 for ADN applicants or BIOL 092 for students seeking the 30-unit option.
Recommended Preparation: MATH 091 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 218 (3.5 Units)
Nursing Care of the Childrearing Family
Term Hours: 36 Lec, 81 Lab
Letter Grade Only
Prerequisite: NURS 123 and NURS 128 with a grade of "C" or better.
This course provides an integrative, family-centered approach to the care of children. Emphasis is placed on normal growth and development, family dynamics, common pediatric disorders and the promotion of healthy behaviors in patients. Clinical experiences provide the student an opportunity to apply theoretical concepts and implement safe patient care to children in selected settings. (CSU)

NURS 219 (3.0 Units)
Psychiatric and Mental Health Nursing
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
Prerequisite: NURS 218 with a grade of "C" or better.
This course focuses on the care of clients across the lifespan experiencing cognitive, mental and behavioral disorders. Emphasis is placed on management of clients facing emotional and psychological stressors as well as promoting and maintaining the mental health of individuals and families. Concepts of crisis intervention, therapeutic communication, anger management, and coping skills are integrated throughout the course. The community as a site for care and support services is addressed. Clinical experiences provide the student an opportunity to apply theoretical concepts and implement safe client care to clients in selected mental health settings. Clinical experience may be out of county. (CSU)

NURS 223 (5.0 Units)
Medical Surgical Nursing III & Preceptorship
Term Hours: 63 Lec, 243 Lab
Letter Grade Only
Prerequisite: NURS 218 with a grade of "C" or better.
This course focuses on the health alterations of adults and older adults. Emphasis is placed on the unique alterations of adults and those progressing in age including the oldest old in the adult life span. Evidence based practices related to changes in physiological status, psychosocial needs, health promotion, health education, safety, end-of-life-care, and interdisciplinary collaboration are integrated throughout the course. Clinical experiences provide an opportunity to apply theoretical concepts and principles of geriatric nursing while implementing safe care in a variety of health care and community settings. (CSU)

NURS 227 (8.0 Units)
Medical Surgical Nursing III & Preceptorship
Term Hours: 63 Lec, 243 Lab
Letter Grade Only
Prerequisite: NURS 219 with a grade of "C" or better.
This course focuses on advanced concepts of nursing care as they relate to patients across the lifespan with complex, multisystem alterations in health. Emphasis is placed on implementing time management and organizational skills while managing the care of patients with multiple needs and collaborating with the interdisciplinary team. Complex clinical skills, as well as priority setting, clinical judgment, and tenets of legal and ethical practice, are integrated throughout the course. Clinical experiences and advanced clinical preceptorships provide the student an opportunity to apply theoretical concepts and implement safe care to patients and selected groups in a variety of settings. (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)

NURSING: VOCATIONAL

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. Current CPR certification (American Heart Health Care Provider Course only). AHP 100, BIOL 204, BIOL 206, ENGL 101 or ENGL 110, PSY 101, PSY 204 or concurrent enrollment in PSY 204.
Corequisite(s): VN 114, VN 116
This course provides an introduction to nursing and roles of the licensed vocational nurse, health care team members, as well as profession related and patient care concepts. Emphasis is placed on the knowledge and skills needed to provide safe, quality care. The theoretical foundation for basic assessment and nursing skills is presented, and the student is given an opportunity to demonstrate these skills in a clinical laboratory setting. An introduction to the nursing process provides a decision-making framework to assist students in developing effective clinical judgment skills. Utilization of the nursing process and developmental theories (primary Erikson), focus on the nursing role as communicator, provider of care, and patient teacher. Parameters of health are defined. Nursing fundamental concepts are introduced related to physical and psychological assessment needs of the normal and ill in-

dividual; pain assessment, interventions and evaluation; basic nutrition; and stress and adaption concepts. Safe patient care is expounded on with the principles of basic hygiene, medical asepsis, correct body mechanics, and the principles of a safe, therapeutic environment. Use of the communication process will assist the student in identifying patient needs and safety issues. Identification of legal/ethical constraints and institutional policies of reporting and recording patient information will be addressed. Variations in nursing care for individuals of different socio-economic and cultural backgrounds will be explored. (CSU)

VN 112 (5.0 Units)
Introduction to Patient Care II
Term Hours: 36 Lec, 162 Lab
Letter Grade Only
Prerequisite: VN 110 with a grade of "C" or better.
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 and simulated sessions, the student relates learned skills and theory to the care of patients 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.
Recommended Preparation: MATH 091
An introductory course in pharmacology designed to assist the student in acquiring the basic skills of drug dosage calculations and the administration of medications. 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
An overview of the leadership and management process as it relates to management of patient care is presented, examined, and analyzed. Principles of critical thinking, application of such skills, and contemporary issues or concepts are discussed. Standards of practice and the significance of functioning according to state regulations are addressed. Effective communication and accountability are emphasized as attributes of the professional nurse. Clinical application is integrated into VN 112 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 112 with a grade of "C" or better.
The nursing process is used to assess the needs of and devise a plan of care for the pregnant woman throughout the maternity cycle in an integrative, family-centered approach. Consideration is given to the physiological, psychosocial, cultural and economic factors which have impact on the mother, infant, and the family as a whole. Course content is focused on the normal responses to pregnancy; however, common disorders of the ante- intra- postnatal periods are presented. The neonate is viewed from a normal perspective, with disorders common to the newborn also presented. Concurrent classroom and clinical experiences are provided in selected settings. (CSU)

VN 122 (5.5 Units)
Common Health Problems I
Term Hours: 45 Lec, 162 Lab
Letter Grade Only
Prerequisite: VN 120 with a grade of "C" or better.
The first of three eight-week courses designed to provide a progressive and sequential study of common alterations in health of the respiratory, reproductive, and special senses systems with a focus on the care of adults and pediatric patients in a medical or surgical setting. Transition from wellness to illness is emphasized. Concepts acquired in previous courses, patient-centered care, and professionalism are applied with increasing complexity for individuals of all ages. Physiological, psychological emotional, cultural, and social concepts are integrated into the planning and implementation of nursing care. Concurrent classroom and clinical experience are provided. (CSU)

VN 124 (2.0 Units)
Pharmacology II
Term Hours: 36 Lec, 0 Lab
Letter Grade Only
Prerequisite: VN 112 and VN 114.
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 122 with a grade of "C" or better.
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. (CSU)

VN 132 (5.5 Units)
Common Health Problems III
Term Hours: 45 Lec, 162 Lab
Letter Grade Only
Prerequisite: VN 130 with a grade of "C" or better.
The final eight-week course designed to provide a progressive and sequential study of common, well-defined health problems is presented in VN 132. The concepts from previous courses are applied with increasing complexity to the caring of individuals throughout the lifespan. The pathophysiology, treatment, and nursing management of common health alterations involving the neurological, integumentary, gastrointestinal, and renal systems are studied in a progressive comprehensive sequence. Principles of growth and development are reinforced. The nursing process is utilized to identify the problems and nursing interventions needed for selected patients in the clinical setting. (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)

PHARMACY TECHNICIAN

PHT 108 (2.0 Units)
Introduction to Pharmacy Technology
Term Hours: 36 Lec, 0 Lab
Letter Grade Only
This course is designed to provide an introduction and overview of the Pharmacy Technician role and various related career opportunities. Course includes an overview of pharmaceutical dosage forms, drug development processes, and drug classifications. Ethical and Legal aspects of pharmacy practice are explored. (Formerly AHP 108) (CSU)

PHT 120 (3.0 Units)
Pharmacy Technician Body Systems I
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
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. (Formerly AHP 120) (CSU)

PHT 125 (3.0 Units)
Pharmacy Technician Body Systems II
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
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. (Formerly AHP 125) (CSU)

PHT 130 (3.0 Units)
Calculation and Pharmacology for Pharmacy Technicians
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
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. (Formerly AHP 130) (CSU)

PHT 140 (4.5 Units)
Pharmacy Technician Operations
Term Hours: 63 Lec, 54 Lab
Letter Grade Only
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 equipment 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. (Formerly AHP 140) (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 110 or concurrent enrollment in ENGL 110 or 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. (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. (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. (CSU) (UC credit limited. See a counselor)

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. (CSU) (UC credit limited. See a counselor.)

PE 107 (1.0 Unit)
Aquatic Exercise
Term Hours: 0 Lec, 36 Lab
Letter Grade Only 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. (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
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. (CSU) (UC credit limited. See a counselor.)

PE 112 (1.0 Unit)
Basketball – Co-Ed
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. (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. (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. (CSU) (UC credit limited. See a counselor.)

PE 122 (2.0 Units)
Lifeguard Training
Term Hours: 27 Lec, 27 Lab
Letter Grade Only 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. (CSU) (UC credit limited. See a counselor.)

PE 123 (2 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. (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. (CSU) (UC credit limited. See a counselor.)

PE 127 (1.0 Unit)
Tennis - Advanced
Term Hours: 0 Lec, 36 Lab
Letter Grade Only
Review and practice of forehand, backhand, serve and volley, overhead smash, and lob. Emphasis on court strategy and tactics for singles and doubles competition. (CSU) (UC credit limited. See a counselor.)

PE 128 (1.0 Unit)
Volleyball
Term Hours: 0 Lec, 36 Lab
Letter Grade Only
This class is designed to provide the student with the appropriate level of knowledge and skills involved with beginning volleyball. As a result of this class the student will improve his or her general physical fitness and volleyball skill performance. Principles, techniques, safe practices and strategies of volleyball will be taught throughout this class. (CSU) (UC credit limited. See a counselor.)

PE 129 (1.0 Unit)
Volleyball - Advanced
Term Hours: 0 Lec, 36 Lab
Letter Grade Only
Recommended Preparation: Completion of 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. (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. (CSU) (UC credit limited. See a counselor.)

PE 131 (1.0 Unit)
Adapted Sports
Term Hours: 0 Lec, 36 Lab
Letter Grade Only 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. (CSU) (UC credit limited. See a counselor.)

PE 142 (1.0 Unit)
Advanced Swimming
Term Hours: 0 Lec, 36 Lab
Letter Grade Only or Pass/No Pass
Prerequisite: 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. (CSU) (UC credit limited. See a counselor.)

PE 143 (1.0 Unit)
Advanced Basketball - Men
Term Hours: 0 Lec, 36 Lab
Letter Grade Only
Recommended Preparation: Participation on the competitive high school (or equivalent) basketball team.
This course is designed for those students of advanced ability in basketball skills who have an interest in playing competitive basketball at the college level. Instruction will cover the development of fundamental offensive and defensive skills with an emphasis on advanced techniques, strategies, and team preparation. (CSU) (UC credit limited. See a counselor.)

PE 144 (1.0 Unit)
Advanced Basketball - Women
Term Hours: 0 Lec, 36 Lab
Letter Grade Only
Recommended Preparation: Prior experience in basketball is strongly suggested.
This class is designed for students with previous basketball knowledge. This class is a preparatory for intercollegiate participation. Advanced principles, techniques, safe practices and strategies of basketball will be taught. Sportsmanship and enjoyment of the game will be emphasized. (CSU) (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. Additional materials fees required. (CSU) (UC credit limited. See a counselor.)

PE 171 (1.0 Unit)
Intermediate Bowling
Term Hours: 0 Lec, 36 Lab
Letter Grade Only
Recommended Preparation: PE 170.
This course emphasizes skill development and acquisition of knowledge about a life-time sport, bowling. The students will continue to develop in bowling skills such as: approach, delivery, scoring, and league experience, in addition to being able to analyze, evaluate and modify technique to improve performance. Class meets off-campus at the Brunswick XL Blowing Alley located at 950 North Imperial Ave., El Centro. Additional materials fees required. (CSU) (UC credit limited. See a counselor.)

PE 172 (1.0 Unit)
Advanced Bowling
Term Hours: 0 Lec, 36 Lab
Letter Grade Only
Recommended Preparation: PE 170 and PE 171.
This course is designed for the avid bowling, having thorough knowledge of bowling principles. Competition in tournament play will be initiated encouraging league experience. Class meets off-campus at the Brunswick XL Blowing Alley located at 950 North Imperial Ave., El Centro. Additional materials fees required. (CSU) (UC credit limited. See a counselor.)

PE 200 (2.0 Units)
Theory of Baseball
Term Hours: 36 Lec, 0 Lab
Letter Grade Only
A history of the game, knowledge of rules, current and possible future trends in the game, coaching techniques, and scouting. Recommended for physical education majors, potential coaches, and recreation majors. (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. (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. (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. (CSU) (UC credit limited. See a counselor.)

PE 209 (3.0 Units)
Introduction to Kinesiology
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Introductory course to the interdisciplinary approach in the study of human movement. This course provides an overview of the sub-disciplines in Kinesiology along with discussion on career opportunities in the areas of teaching, coaching, allied health, and fitness professions. (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 219 (3.0 Units)
Introduction to Athletic Training
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
This course introduces the profession of athletic training and covers the care and prevention of common athletic injuries. It includes bandaging and/or taping techniques, rehabilitation of injuries, and the 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 091
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 (4.0 Units)
General Physics I
Term Hours: 45 Lec, 81 Lab
Letter Grade Only
Prerequisite: MATH 192 with a grade of "C" or better or concurrent enrollment in MATH 192.
This course is designed to give an understanding of the fundamental principles of physics in the area of mechanics. (C-ID PHYS 205 or PHYS 200S) (CSU, UC)

PHYS 202 (4.0 Units)
General Physics II
Term Hours: 45 Lec, 81 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. (C-ID PHYS 210 or PHYS 200S) (CSU, UC)

PHYS 204 (4.0 Units)
General Physics III
Term Hours: 45 Lec, 81 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. (C-ID PHYS 215 or PHYS 200S) (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. (C-ID POLS 150) (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. (C-ID POLS 110) (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. (C-ID POLS 130) (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. (C-ID POLS 140) (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. (C-ID PSY 110) (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) (C-ID CDEV 100) (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.
This is an applied course that focuses on how psychology is used in daily life. The course surveys different psychological perspectives and theoretical foundations and how these are applied across a person's life taking into account the influence of factors such as culture, gender, ethnicity, historical cohort, and socio-economic status from a biopsychosocial perspective. (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
This course is an introductory overview of the field of human sexuality. Human sexuality will be examined from psychological, biological, sociocultural, and historical perspectives. Students will be encouraged to become aware of their own sexual attitudes, values, and behaviors and to evaluate the consistency of their behaviors within their own moral frameworks. Current sex norms and various aspects of interpersonal and individual sexual adjustment will be explored. (C-ID PSY 130) (CSU, UC)

PSY 200 (3.0 Units)
Biological Psychology
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: PSY 101 with a grade of "C" or better.
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. (C-ID PSY 150) (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 genetics, conception, prenatal development, infancy, toddlerhood, preschool years, middle childhood, adolescence, early adulthood, middle adulthood, later adulthood, and death. Theories and research of physical, cognitive, personality, and social development are examined, as well as attention to developmental problems. (C-ID PSY 180) (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) (C-ID PSY 170) (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. (C-ID PSY 120) (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
Prerequisite: PSY 101 and PSY 214 with a grade of "C" or better.
This course surveys various psychological research methods with an emphasis on research design, experimental procedures, descriptive methods, instrumentation, and the collection, analysis, interpretation, and reporting of research data. Research design and methodology will be examined through a review of research in a variety of the subdisciplines of psychology. (C-ID PSY 200) (CSU, UC)

PSY 214 (4.0 Units)
Statistical Methods in Behavioral Sciences
Term Hours: 54 Lec, 36 Lab
Letter Grade Only
Prerequisite: PSY 101 with a grade of "C" or better and MATH 091 with a grade of "C" or better.
Quantitative methods in behavioral sciences are considered including: measures of central tendency and variability; graphic methods and percentages; linear correlation and regression; application of normal probability curves; and introducing statistical inferential measures including "t" tests, one and two-way analysis of variance, and chi-square. The data analysis will also involve statistical and graphical analysis and interpretation of behavioral science data using computer technology such as SPSS. (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 with a grade of "C" or better.
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)

READING

READ 018 (4.0 Units)
Reading I: Basic Development
Term Hours: 72 Lec, 0 Lab
Letter Grade Only or Pass/No Pass
Prerequisite: ESL 025 with a grade of "C" or better or appropriate placement.
This course is designed 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. (Formerly ENGL 018) (Nontransferable, nondegree applicable)

READ 019 (4.0 Units)
Reading II: Intermediate Development
Term Hours: 72 Lec, 0 Lab
Letter Grade Only or Pass/No Pass
Prerequisite: READ 018 (Formerly ENGL 018) with a grade of "C" or better or appropriate placement.
This course aims to build reading efficiency to college level 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. (Formerly ENGL 019) (Nontransferable, nondegree applicable)

READ 111 (3.0 Units)
Reading IV: Analytical and Critical Reading
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: ENGL 110 or ENGL 101 with a grade of "C" or better and READ 019 (Formerly ENGL 019) or ENGL 089 with a grade of "C" or better or appropriate placement.
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. (Formerly ENGL 111) (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, Sikhism, 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) (CSU, UC)

RENEWABLE ENERGY

RNEW 105 (3.0 Units)
Introduction to Energy Compliance
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
This course provides practical instruction in current compliance issues pertaining to the generation, distribution and transmission of electricity. Students will review and analyze case studies pertaining to the Energy Power Act of 2005, Federal Energy Regulatory Commission (FERC), North American Energy Reliability Corporation (NERC), Critical Infrastructure Standards (CIPS), bulk elements, NERC standards, developing standards and protocols, compliance monitoring, enforcement process, compliance registration and mitigation. (Nontransferable, AA/AS degree only)

RNEW 111 (3.0 Units)
Introduction to Power Plant Operations I
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
Introduces students to power generation, types of power plants, boilers and boiler operation, fuel combustion, auxiliary equipment, boiler accessories, operation and maintenance procedures, pumps, steam turbines, condensers, cooling towers, environmental control systems and other types of renewable energy generation. Power plant simulation training will be provided. (Nontransferable, AA/AS degree only)

RNEW 112 (3.0 Units)
Introduction to Power Plant Operations II
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
Prerequisite: RNEW 111 with a grade of "C" or better.
This course will enhances the body of knowledge for the students pursuing a career in power plant operation, with additional technical instruction in, types of power plants, production and transfer of energy, transmission and distribution systems, VAR flows, economic operation of power plants, power systems controls, energy accounting in interconnected operations, communication, telemetering methods, SCADA systems, distribution systems, power system reliability factors, power system protection, EHV operation, and safety procedures within the power plant facility. (Nontransferable, AA/AS degree only)

RNEW 118 (4.0 Units)
Alternative Energies
Term Hours: 54 Lec, 54 Lab
Letter Grade Only
Recommended Preparation: ELTR 120 and ELTR 140.
This course provides the student with instruction, which meets NSF Renewable Energy Program and NABCEP guidelines, and as part of the Solar PV & Thermal Technician Certification, qualifies the student to take the NABCEP Solar Entry Level PV and SH Exams, instruction is in basic principles of electrical Alternative Energy Systems. Instruction will include an introduction to energy usage, Ocean and Hydro-power, Solar Energy, Wind Energy, bio-energy, combustion turbines, Hydrogen economy and Fuel Cells, Combined Heat and Power systems, Geothermal, Nuclear, Smart Grid, Energy and data acquisition systems based on LabVIEW software. Energy efficiency and sustainability principles of these systems will be the focus of instruction. (Formerly EWIR 160) (CSU)

RNEW 135 (3.0 Units)
Introduction to Alternative Fuels
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
This course is an overview of alternative fuels used in stationary and portable power generation, and transportation. Students will learn about various alternative fuels, their effect on exhaust emissions, the environment, the economic impact, and how alternative fuels reduce the importation of foreign oil. This course will include the study of the safety, production, distribution and the future of hydrogen, fuel cells, Compressed & Liquefied Natural Gas (CNG & LNG), propane (LP gas), ethanol, methanol, and bio-diesel. (Nontransferable, AA/AS degree only)

RNEW 150 (3.0 Units)
Solar Energy Systems PV1
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
This course provides students with instruction in the principles of photovoltaic (PV) technology that meets NSF and NABCEP guidelines, and qualifies the student to take the NABCEP Solar PV Entry Level Exam. Instruction includes an overview of electric principles, the solar resource, and electric load analysis; (PV) modules, controllers, batteries, and inverters; (PV) systems utility-interactive systems, integrating (PV) into buildings and system applications. Basics of installation, maintenance, troubleshooting, and safety. (Formerly EWIR 150) (Nontransferable, AA/AS degree only)

RNEW 151 (3.0 Units)
Solar Electrical Systems PV2
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
This course focuses on Photovoltaic (PV) systems design and meets NSF Renewable Energy Program and NABCEP guidelines, and qualifies the student to take the NABCEP Solar PV Entry Level Test, including grid and stand-alone calculations, grounding considerations and wiring sizing based on the National Electrical Code (NEC). Evaluate systems performance under various operating conditions. residential, commercial and industrial systems design elements, including inter-row shading, controllers, battery and inverters selection, sizing and data monitoring solutions, including system design and installation exercises. (CSU)

RNEW 152 (3.0 Units)
Solar Heating (SH)
Term Hours: 36 Lec, 54 Lab
Letter Grade Only
Recommended Preparation: RNEW 118 or EWIR 160 and RNEW 150 or EWIR 150.
This course is an introductory study in solar thermal concepts that meets NABCEP guidelines, and qualifies the student to take the NABCEP Solar Heating (SH) Entry Level Test. Identifying SH safety practices, standards, codes and certification. Instruction will be based on solar thermal collector for water, space heating, installation and operation, water treatment, saving devices and equipment. Conducting a site analysis, water and space heating systems design, identifying systems components, materials, balance, installation, maintenance and troubleshooting. Learning opportunities will be enhanced through a combination of lecture and laboratory activities. (Nontransferable, AA/AS degree only)

RNEW 165 (1.0 Unit)
NABCEP Entry Level Exam Preparation
Term Hours: 0 Lec, 81 Lab
Letter Grade Only
Prerequisite: EWIR 110, RNEW 150 or EWIR 150, RNEW 151, and RNEW 152 with a grade of "C" or better.
This course prepares students for NABCEP PV and SH Entry Level Exams, including in and out of class activities. Skills development in the areas of exam preparation; exam mental and physical preparation, highlight related solar topics, principles and concepts, exam taking strategy, several exams simulations, exams grading and results driven corrective actions. A review of factors relating to or contributing to exam passing success factors. (Nontransferable, nondegree applicable)

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
Introduction to the study of society. Overview of major concepts, methods and theoretical perspectives including: culture, social structure, institutions, socialization, gender, race, social class, inequality, deviance, and social control. Topics include macro and micro theories. (C-ID SOCI 110) (CSU, UC)

SOC 102 (3.0 Units)
Contemporary Social Problems
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
This course examines contemporary social problems and the process by which competing groups make claims to define phenomena as social problems. Emphasis includes understanding these problems on the societal level, the group level, and from the standpoint of the individual. (C-ID SOCI 115) (CSU, UC)

SOC 110 (3.0 Units)
Marriage and the Family
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
The sociological perspective on marriage and the family as social institutions. Topics include: the history of love and marriage, myths and hidden realities, kinship systems, mate selection, social class differences in marital roles and child-rearing practices, and how social change effects marriage and the family. (C-ID SOCI 130) (CSU)

SOC 150 (3.0 Units)
Sociology of Minority Groups
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
This course examines the social construction of race including the social, political and historical factors that shape race. Discussion topics include how race is interpreted across large aggregate categories such as ethnicity, gender, class, immigration status and sexuality. Additionally this course will provide how the concept of race is affected by the colonial experience and the forming of contemporary society. (Same as ADS 150) (C-ID SOCI 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) (C-ID PSY 170) (CSU, UC)

SOC 224 (3.0 Units)
Criminology
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Recommended Preparation: Completion of ENGL 009 and READ 019
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 224) (C-ID SOCI 160) (CSU)

SPANISH

SPAN 100 (5.0 Units)
Elementary Spanish I
Term Hours: 90 Lec, 0 Lab
Letter Grade Only or Pass/No Pass
Prerequisite: The student must be able to speak and read English.
Not open to students with native ability in Spanish or those who have studied in a Spanish speaking country. (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 through authentic language and cultural products, which reflect the different frame of reference from which the native speaker of Spanish views the world. The class is conducted in Spanish. (C-ID SPAN 100) (CSU, UC)

SPAN 110 (5.0 Units)
Elementary Spanish II
Term Hours: 90 Lec, 0 Lab
Letter Grade Only or Pass/No Pass
Prerequisite: SPAN 100 with a grade of "C" or better or equivalent.
A continuation of SPAN 100 with the main emphasis on the imperfect, preterit, and the present perfect forms for both regular and irregular verbs. The course continues teaching language acquisition in a cultural context through the four basic language skills: hearing, speaking, reading, and writing. Not open to students with native fluency in Spanish and to those students who have studied in a Spanish Speaking country. Course is conducted in Spanish. (See SPAN 220) (CSU, UC)

SPAN 113 (2.5 Units)
Beginning Conversational Spanish and Culture I
Term Hours: 45 Lec, 0 Lab
Letter Grade Only 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 200 (5.0 Units)
Intermediate Spanish I
Term Hours: 90 Lec, 0 Lab
Letter Grade Only or Pass/No Pass
Prerequisite: SPAN 110 with a grade of "C" or better or equivalent. 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. This course requires the use of increasingly complex language structures and vocabulary to develop the functional competence required to communicate beyond survival needs and to discuss and express opinions on abstract topics related to the arts, lifestyle, linguistics, and literature at the intermediate level. (CSU) (UC credit limited. See a counselor.)

SPAN 210 (5.0 Units)
Intermediate Spanish II
Term Hours: 90 Lec, 0 Lab
Letter Grade Only or Pass/No Pass
Prerequisite: SPAN 200 with a grade of "C" or better or equivalent. 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, 110, and 200. A recent course in SPAN 200 or the recent completion of 4 years of high school Spanish course 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. Content continues to expand in order to use more complex language structures and vocabulary to express personal meaning, opinions, and to apply different strategies and techniques to go beyond casual conversation. 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)
Spanish for Heritage Speakers I
Term Hours: 90 Lec, 0 Lab
Letter Grade Only or Pass/No Pass
Prerequisite: Spanish speaking fluency, native or near-native or 3 years of high school Spanish.
The course is designed for heritage speakers of Spanish or other linguistically qualified students. The course provides instruction that builds upon the four basic language skills: listening, speaking, reading, and writing; placing emphasis on acquiring proficiency using formal Spanish at the intermediate level. The course also focuses on language challenges particular to Heritage and Native speakers such as orthography, the inappropriate mix of English and Spanish, and contrasts between standard Spanish and regional variations. 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 Central American. (C-ID SPAN 220) (CSU) (UC credit limited. See a counselor.)

SPAN 221 (5.0 Units)
Spanish for Heritage Speakers II
Term Hours: 90 Lec, 0 Lab
Letter Grade Only or Pass/No Pass
Prerequisite: SPAN 220 with a grade of "C" or better or equivalent. Continuation of SPAN 220. It is designed for Heritage Speakers of Spanish to improve their writing, reading, and grammar skills. It focuses on the mastery of formal, written communication in Spanish at the intermediate-advanced level, while integrating authentic cultural and literary readings from Spanish speaking countries. The course focuses also on language challenges that Spanish speakers still encounter at intermediate-advanced level, such as orthography, the inappropriate mix of English and Spanish in specific contexts, and standard Spanish as contrasted with regional variations. This course is conducted entirely in Spanish. 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 Only 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 Only 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 Only 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 Only 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)

THEATRE ARTS

THEA 100 (3.0 Units)
Introduction to Theatre
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
The class focuses on the relationship of theatre to various cultures throughout history and on the contributions of significant individual artists. This course introduces students to elements of the production process including playwrighting, acting, directing, design, and criticism. Students will also survey different periods, styles, and genres of theatre through play reading, discussion, films, and viewing and critiquing live theatre. (C-ID THTR 111) (CSU, UC)

THEA 120 (3.0 Units)
Fundamentals of Acting
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
This course prepares the student to apply basic acting theory to performance and develops the skills of interpretation of drama through acting. Special attention is paid to skills for performance: memorization, stage movement, and interpretation of text. (CSU, UC)

WATER TREATMENT SYSTEMS TECHNOLOGY

WT 105 (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. (Formerly WT 120) (CSU)

WT 110 (4.0 Units)
Water Treatment Plant Operator I
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
This course will provide information needed to operate a basic freshwater treatment plant as efficiently as possible. Course will consist of water sources and treatment, coagulation and flocculation, sedimentation, filtration, disinfection, corrosion control, taste and odor control, laboratory procedures, and plant operation math. (CSU)

WT 130 (4.0 Units)
Wastewater Treatment Operator I
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
This course is designed to train operators in the effective operation and goals of the wastewater treatment process. The course will consist of the fundamentals of water cycle, wastewater treatment daily operations, sources and pretreatment of domestic and industrial wastes, interpretation of laboratory results, and process control. (CSU)

WT 140 (4.0 Units)
Water Distribution Systems
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
This course is designed to provide operators with the necessary skills required for the proper installation, inspection, operation, maintenance, repair, and management of water distribution systems. Among the topics covered are: distribution 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
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 205 (3.0 Units)
Computational Procedures Operator II
Term Hours: 54 Lec, 0 Lab
Letter Grade Only
Prerequisite: WT 105 (Formerly WT 120) with a grade of "C" or better.
This course provides instruction in entry-level to advanced-level mathematical calculations used in the operation and evaluation of conventional water/wastewater treatment processes and water distribution systems. Course will cover basic geometry, metric conversions, flows, pressure, and chemical dosage as it relates to the water/wastewater industry. Material will parallel some of the problems found on State Certification examinations. (Formerly WT 220) (CSU)

WT 210 (4.0 Units)
Water Treatment Plant Operator II
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: WT 110 and WT 205 (Formerly WT 220) with a grade of "C" or better.
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, groundwater plant operations, advanced math, rules and regulations, laboratory procedures, and supervisory practices. (CSU)

WT 230 (4.0 Units)
Wastewater Treatment Operator II
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: WT 130 with a grade of "C" or better.
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
This course is designed to be a study of Welding Technology and related Industrial Safety. The student will develop the theory and knowledge base to be able to safely and properly practice welding techniques in the following welding processes; Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), Oxy/Fuel Welding and Cutting (OFW/C), and Plasma Arc Cutting (PAC). To support and enhance the understanding and application of Welding Technology principles, the student will develop an understanding of Industrial Safety Standards, Technical Drawings, Weld/Welding Symbols, Electrical Fundamentals, Fundamental Welding Metallurgy, Fundamentals of Quality Assurance, and Weld Testing/Inspection. The development of welding skills sets and practices for all applicable welding processes will require the proper use of Personal Protective Equipment (PPE) and the application of all Safety Rules. (CSU)

WELD 115 (3.0 Units)
Flux Cored Arc Welding Plate
Term Hours: 36 Lec, 72 Lab
Letter Grade Only
Prerequisite: WELD 100 with a grade of C or better.
This course is designed to be a study of Flux Cored Arc Welding (FCAW). This course is one of the required courses in the Welding Technology Program. The student will develop the theory and knowledge base to be able to safely and properly practice welding techniques in Flux Cored Arc Welding (FCAW) on Structural Steel (A-36) plate. To support and enhance the understanding and application of FCAW and Welding Technology principles, the student will develop an understanding of Industrial Safety Standards, Technical Drawings, Weld/Welding Symbols, Electrical Fundamentals, Fundamental FCAW Welding Metallurgy, Fundamentals of Quality Assurance, Welding Codes (AWS D1.1), and Weld Testing/Inspection. The development of welding skills sets and practices for FCAW applications on plate will require the proper use of Personal Protective Equipment (PPE) and the diligent application of all Safety Rules. (Formerly WELD 105) (CSU)

WELD 125 (3.0 Units)
Gas Tungsten Arc Welding on Plate
Term Hours: 36 Lec, 72 Lab
Letter Grade Only
Prerequisite: WELD 100 with a grade of C or better.
This course is designed to be a study of Gas Tungsten Arc Welding (GTAW). This course is one of the required courses in the Welding Technology Program. The student will develop the theory and knowledge base to be able to safely and properly practice welding techniques in Gas Tungsten Arc Welding (SMAW) on Steel (A-36), Stainless Steel, and Aluminum plate. To support and enhance the understanding and application of GTAW and Welding Technology principles, the student will develop an understanding of Industrial Safety Standards, Technical Drawings, Weld/Welding Symbols, Electrical Fundamentals, Fundamental GTAW Welding Metallurgy, Fundamentals of Quality Assurance, Welding Codes, and Weld Testing/Inspection. The development of welding skills sets and practices for GTAW applications on plate will require the proper use of Personal Protective Equipment (PPE) and the application of all Safety Rules. (Formerly WELD 101) (CSU)

WELD 135 (4.0 Units)
Shielded Metal Arc Welding on Plate
Term Hours: 36 Lec, 108 Lab
Letter Grade Only
Prerequisite: WELD 100 with a grade of C or better.
This course is designed to be a study of Shielded Metal Arc Welding (SMAW). This course is one of the required courses in the Welding Technology Program. The student will develop the theory and knowledge base to be able to safely and properly practice welding techniques in Shielded Metal Arc Welding (SMAW) on Structural Steel (A-36) plate. To support and enhance the understanding and application of SMAW and Welding Technology principles, the student will develop an understanding of Industrial Safety Standards, Technical Drawings, Weld/Welding Symbols, Electrical Fundamentals, Fundamental SMAW Welding Metallurgy, Fundamentals of Quality Assurance, Welding Codes (AWS D1.1), and Weld Testing/Inspection. The development of welding skills sets and practices for SMAW applications on plate will require the proper use of Personal Protective Equipment (PPE) and the application of all Safety Rules. (Formerly WELD 102) (CSU)

WELD 225 (3.0 Units)
Gas Tungsten Arc Welding on Pipe
Term Hours: 36 Lec, 72 Lab
Letter Grade Only
Prerequisite: WELD 125 (Formerly WELD 101) with a grade of C or better.
This course is designed to be a study of Gas Tungsten Arc Welding (GTAW). This course is one of the required courses in the Welding Technology Program. The student will develop the theory and knowledge base to be able to safely and properly practice welding techniques in Gas Tungsten Arc Welding (GTAW) on Carbon Steel Pipe (Open Root) and on Stainless Steel (Thin Wall Tube). To support and enhance the understanding and application of GTAW and Welding Technology principles, the student will develop an understanding of Industrial Safety Standards, Technical Drawings, Weld/Welding Symbols, Electrical Fundamentals, Fundamental GTAW Welding Metallurgy, Fundamentals of Quality Assurance, Welding Codes (API 1104 and ASME Section IX), and Weld Testing/Inspection. The development of welding skills sets and practices for GTAW applications on Carbon Steel and Stainless Steel pipe will require the proper use of Personal Protective Equipment (PPE) and the diligent application of all Safety Rules. (Formerly WELD 104) (CSU)

WELD 230 (3.0 Units)
Shielded Metal Arc Welding on Pipe
Term Hours: 36 Lec, 72 Lab
Letter Grade Only
Prerequisite: WELD 135 (Formerly WELD 102) with a grade of C or better.
This course is designed to be a study of Shielded Metal Arc Welding (SMAW). This course is one of the required courses in the Welding Technology Program. The student will develop the theory and knowledge base to be able to safely and properly practice welding techniques in Shielded Metal Arc Welding (SMAW) on Carbon Steel Pipe (Open Root). To support and enhance the understanding and application of SMAW and Welding Technology principles, the student will develop an understanding of Industrial Safety Standards, Technical Drawings, Weld/Welding Symbols, Electrical Fundamentals, Fundamental SMAW Welding Metallurgy, Fundamentals of Quality Assurance, Welding Codes (API 1104 and ASME Section IX), and Weld Testing/Inspection. The development of welding skills sets and practices for SMAW applications on carbon steel pipe will require the proper use of Personal Protective Equipment (PPE) and the application of all Safety Rules. (Formerly WELD 103) (CSU)

WORK EXPERIENCE

WE 201 (1.0 Unit)
Employment Readiness
Term Hours: 18 Lec, 0 Lab
Letter Grade Only or Pass/No Pass
Skills development in the areas of job search, employer contact, resume 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. (CSU)

WE 210 (1.0-3.0 Units)
General Work Experience
Term Hours: 0 Lec, 63 Lab
Letter Grade Only 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. (CSU)

WE 220 (1.0-4.0 Units)
Internship
Term Hours: 0 Lec, 63 Lab
Letter Grade Only 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 student's educational or occupational (major or career) goals. One unit of credit is earned for each 60 hours of volunteer/unpaid work or 75 hours of paid work, with maximum of 4 units per semester. During a regular semester, students must complete a minimum of 7 units, including Work Experience. During the summer session, students must complete one other course in addition to Work Experience. (CSU)

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CATALOG APPENDIX

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 091 or 090 or higher level with "C" or better.

Math 061
Basic Math
3.0 Units

No Prerequisite Identified

Math 071
Pre-Algebra
3.0 Units

PREREQUISITE: MATH 061 with a minimum grade of C or better or appropriate placement score on ACCUPLACER.

Math 081
Beg Algebra
4.0 Units

PREREQUISITE: MATH 071 OR 070 with a minimum grade of C or better or appropriate placement score on ACCUPLACER.

Math 091
Interm Algebra
5.0 Units

PREREQUISITE: MATH 081 or 080 with a minimum grade of C or better or appropriate placement score on ACCUPLACER.

TRANSFER LEVEL COURSES

Math 110
Number Sys in Elem Mth
3.0 Units

Math 112
Geometry in Elem Mth
3.0 Units

Math 114
Chld Mth Thnk
1.0 Unit

Math 119
Elem Stats
4.0 Units

Math 122
Finite Math
3.0 Units

Math 150
College Alg
4.0 Units

Math 170
Intro Calculus w/Appls
4.0 Units

Math 140
Trigonometry
3.0 Units

Math 190
Pre-Calculus
5.0 Units

Math 192
Calculus I
4.0 Units

Math 240
Discrete Math
3.0 Units

Math 194
Calculus II
4.0 Units

Math 210
Calculus III
4.0 Units

Math 220
Differential Equations
3.0 Units

Math 230
Linear Algebra
3.0 Units

Transfer level courses have a minimum prerequisite of MATH 091 or 090 with a grade of "C" or better or a higher level mathematics course.
See a Counselor for assistance.

NOTE: Transfer level math course offerings are limited during winter and summer terms. MATH 210, 220, 230 and 240 are only offered once per year. Please check with a Counselor for course availability.

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 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 hospitals or health care agencies and facilities within and 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** or in the Nursing and Allied Health Department.

ADMISSION PROCESS

Eligibility and Application *

1. To be eligible for consideration the applicant must:
   a. Be eligible for admission to Imperial Valley College.
   b. Be at least 18 years of age at the time of admission.
   c. Meet the Reading competency requirement for graduation.
   d. Meet the Math competency requirement for graduation.
   e. Meet the minimum academic GPA scores:
      1). "Fixed Set" course work GPA of 2.5 or higher:
      - PSY 204
      - ENGL 110
      - MATH 091
      - ANTH 102 or SOC 101
      - COMM 100

      2). Required Science **: cumulative GPA of 2.5 or higher on each of the following:
      - BIOL 220
      - BIOL 200 and BIOL 202
        OR
      - BIOL 204 and BIOL 206

      *** Anatomy must be completed within 10 years and any Physiology or Microbiology must be completed within seven (7) years.*

      3). Pass the Test of Essential Academic Skills (TEAS) with a score of 62% or higher

      ** NOTE: Meeting eligibility does not guarantee admission and the Nursing Program does not maintain a wait list.*

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** are accepted during the following two applications periods:
   a. March 1 through March 31 for Fall Admission, unless an extension date is posted.
   b. September 1 through September 30 for Spring Admission, unless an extension date ip posted.
   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. Meet with the nursing counselor.
   b. Obtain a valid social security number prior to entering the program.
   c. Attend a nursing information session. Information on the dates and times will be posted on the Nursing page of the IVC website at **www.imperial.edu**.

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 by email within 60 days after the deadline.

Admission into the Program

1. 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. The exam is 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:
      1) 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.
      2) 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.
      3) 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.
      4) Students who have concerns about these circumstances should contact the Nursing Program Director.

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.

Progression Policy:
All nursing courses must be taken in sequence and must be completed with a "C" or better to progress to the next level.

Additional Courses Recommended for Student Success
Students are encouraged to take the following additional requirements if a Bachelor's of Science in Nursing (BSN) degree will be desired in the future. Please work with a Counselor regarding the transfer requirements for other institutions.

a. READ 111 or ENGL 201or PHIL 106 or SPCH 180
b. MATH 119
c. POLS 102
d. HIST 120 or HIST 121

LVN ADVANCED PLACEMENT ADMISSION TO 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 RN requirements for admission as identified in the IVC Catalog. 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 - VN to RN Associate Degree

1. LVNs seeking to complete the ADRN Program under Option 1, must 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. Prerequisites
Courses required for the RN Associate Degree must be complete with a grade of "C" or better and minimum admission criteria is a GPA of 2.5 for the following:

- PSY 204
- ENGL 110
- MATH 091
- ANTH 102 or SOC 101
- COMM 100
- BIOL 220
- BIOL 200 and BIOL 202
  OR
- BIOL 204 and BIOL 206

NOTE: Anatomy must be completed within 10 years and Physiology or Microbiology must be completed within 7 years.

Math Competency: A score of 7006 or 2006 or higher on the ACCUPLACER ™ College Level Mathematics Test OR MATH 091 or 090 (Intermediate Algebra) OR an advanced level mathematics courses with a grade of "C" or better.

Reading Competency: A score of 6010 or 3006 on the ACCUPLACER™ Reading Test, OR ENGL 110 OR ENGL 101 with a grade of "C" or better.

3. Additional Degree Requirements
PE 100 Lifetime Exercise Science
PE Elective Activity Course
COMM 100
Humanities Elective
American Institutions Requirement

4. Nursing Program Admission Requirements:
a. **Background Screen:** Must pass a criminal background check as a requirement of the clinical agencies.
b. **Drug Screen:** Must pass a drug screen as defined by the Nursing Program as a requirement of the clinical agencies.
c. **American Heart BLS/CPR Certification:** Must be current.
d. **IV Therapy Certification:** Must be current.

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

6. Registered Nursing Program Option I Required Courses:
a. NURS 204 Transition Course

Student standing at end of course will determine the best placement in the program for student success and includes:
- Assessment testing in the areas of OB/Maternal Child and Nursing Fundamentals. A fee is charged for each test which includes study materials.
- A medication administration exam which must be passed with a 92% score. Students will have three (3) attempts to pass this exam.
- A simulation skills test to determine safety and proficiency regarding basic principles of nursing practice.
- Course grade, exams, assessments, skills test, and instructor recommendation will determine the student's most appropriate placement in the RN program. Entry into second semester may be required.

b. NURS 218
c. NURS 223
d. NURS 219
e. NURS 227

Clinical experience may include a rotation outside of county

OPTION II - VN to RN 30-Unit Option (Non-degree)

1. This option was established by the CA Board of Registered Nursing for LVNs seeking to become eligible for their RN license. More information is available on the Board of Registered Nursing website at **www.rn.ca.gov**

2. LVNs seeking the 30-Unit Option must 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 nine (9) units of prerequisite courses. All courses required for this option must be completed with a 2.5 G.P.A. or better.
   a. BIOL 220
   b. BIOL 202 or BIOL 206

   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, but will not be identified as having a degree. 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 Screen: 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
   IV Therapy Certification: Must be current

6. **Progression Policy**
   All nursing courses must be taken in sequence and must be completed with a "C" 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**:
   a. NURS 218
   b. NURS 223
   c. NURS 219
   d. NURS 227

   Clinical experience may include a rotation outside of county

Highly recommended for successful completion of the major

• NURS 204

OPTION III - Generic Program

The LVN may choose the option of taking the entire RN curriculum. Applicants are encouraged to consider Option I or Option II unless they have been away from nursing for a prolonged period.

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 will be able to provide Nursing Care within the scope of an LVN in a variety of healthcare settings.

Admission Process

Admission to the VN Program is by application, which is available in the Nursing Education Office or from the IVC website at **www.imperial.edu**. Applications are accepted every three semesters during the month of March 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 General Educational Development (G.E.D.) certificate. Foreign transripts must be formally evaluated for equivalency prior to submitting with application.
   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 2.5 of higher:
      • ENGL 110
      • BIOL 200 and 202 **
      OR
      • BIOL 204 and 206 **
      • AHP 100
      • PSY 101 and PSY 204

   ** NOTE: Meeting eligibility does not guarantee immediate admission and the Nursing Program does not maintain a wait list.*

   *** Anatomy must be completed within 10 years and any Physiology or Microbiology must be completed within 7 years.*

2. **Additional Requirements include**
   a. Make an appointment with the nursing counselor.
   b. Contact the Nursing and Allied Health Department for further details.
   c. Obtain a valid social security number prior to entering the program.

Selection for Admission:

1. Applicants are selected by random draw by two members of the selection committee.

2. Students are encouraged to complete all course work before submitting an application. More information is available on the IVC website at **www.imperial.edu** Nursing and Allied Health.

3. Prior to starting the program, the student must successfully pass:
   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:
      1) 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.
      2) 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.
      3) 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.
      4) Students who have concerns about these circumstances should contact the Nursing Program Director.
   c. An American Heart Association Basic Life Support course and submit a current copy of the card.

4. **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 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
   COMM 100
   PE 100
   PE Elective Activity Course
   Humanities Elective
   American Institutions Requirement
   Meet the Reading and Math competency requirements for graduation.

2. The Certification in Vocational Nursing requires all required courses to be completed with a minimum grade of "C."
   * Prerequisites
   * Vocational Nursing Program Required Courses.

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-160 (Formerly AJ 142) Regular Basic Course Modular Format Level III
(Earns a Level III Reserve Certificate)

AJ-162 (Formerly AJ 144) Regular Basic Course Modular Format Level II
(Earns a Level II Reserve Certificate)

AJ-164 Regular Basic Course Modular Format Level I
(Earns a Level I Reserve Certificate or Basic Peace Officer 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 (DOJ) 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 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 160 (Formerly AJ 142) Regular Basic Course Level III

AJ 160 (Formerly 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 160 **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 (DOJ) 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 160 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 160

Eligibility Requirements for AJ 162 (Formerly AJ 144) Regular Basic Course Level II

AJ 162 (Formerly 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 162 (Formerly 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 160 (Formerly 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 (DOJ) 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 162 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

Eligibility Requirements for AJ 164 Regular Basic Course Level I

AJ 164 Regular Basic Course Level I – successful completers who have been appointed by a law enforcement agency may perform general law enforcement assignments as either a Level I Reserve Officer/Deputy or a full-time Law Enforcement Officer/Deputy. 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 164 **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 162 (Formerly AJ 144) RBC Level II or Reserve Peace Officer Level II certification as a Level II officer is required
   b. If the student has obtained their Level II 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 I course for over a year, they must take the End of Course Proficiency Examination for Modular II. 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 Regular Basic Course Modular Format Level I course.
   d. The completion date of the Level II 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 (DOJ) 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 Academy 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 and proof of insurance.
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. Obtained a score of 40 or more on the P.O.S.T. Entry Level Law Enforcement Test Battery (PELLETB) within 6 months of the desired class starting date.
10. Obtained a score of 250 on the P.O.S.T. Work Sample Test Battery (Physical Fitness Test) within 6 months of the desired class starting date.

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 and Level I 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.

PEACE OFFICER PROGRAM

The State Legislature and the Commission on Peace Officer Standards and Training (POST) have established three levels of training for the training of full-time Peace Officers in California. Imperial Valley College offers the Regular Basic Course in a Modular Format with the Level III, Level II and Level I training courses. All 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 all peace officers. Please contact the Administrative Justice and POST Department Office for further information regarding these requirements.

Credit for Administration of Justice Coursework

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

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

U.S. BORDER PATROL ACADEMY, D.H.S.
AJ 110 Law Enforcement Community Relations 3.0 Units
AJ 100 Intro to Administration of Justice 3.0 Units

CALIFORNIA HIGHWAY PATROL ACADEMY
AJ 100 Introduction to Administration of Justice 3.0 Units
AJ 141 Arrest & Firearms 3.5 Units

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

CALIFORNIA BASIC PROBATION OFFICER ACADEMY
CSI 100 Introduction to Corrections 3.0 Units
CSI 104 Concepts of Probation and Parole 3.0 Units

CALIFORNIA DEPARTMENT OF CORRECTIONS ACADEMY
CSI 100 Introduction to Corrections 3.0 Units
CSI 208 Control and Supervision of Inmates 3.0 Units
AJ 141 Arrest & Firearms 3.5 Units (San Joaquin Delta College Affiliation)

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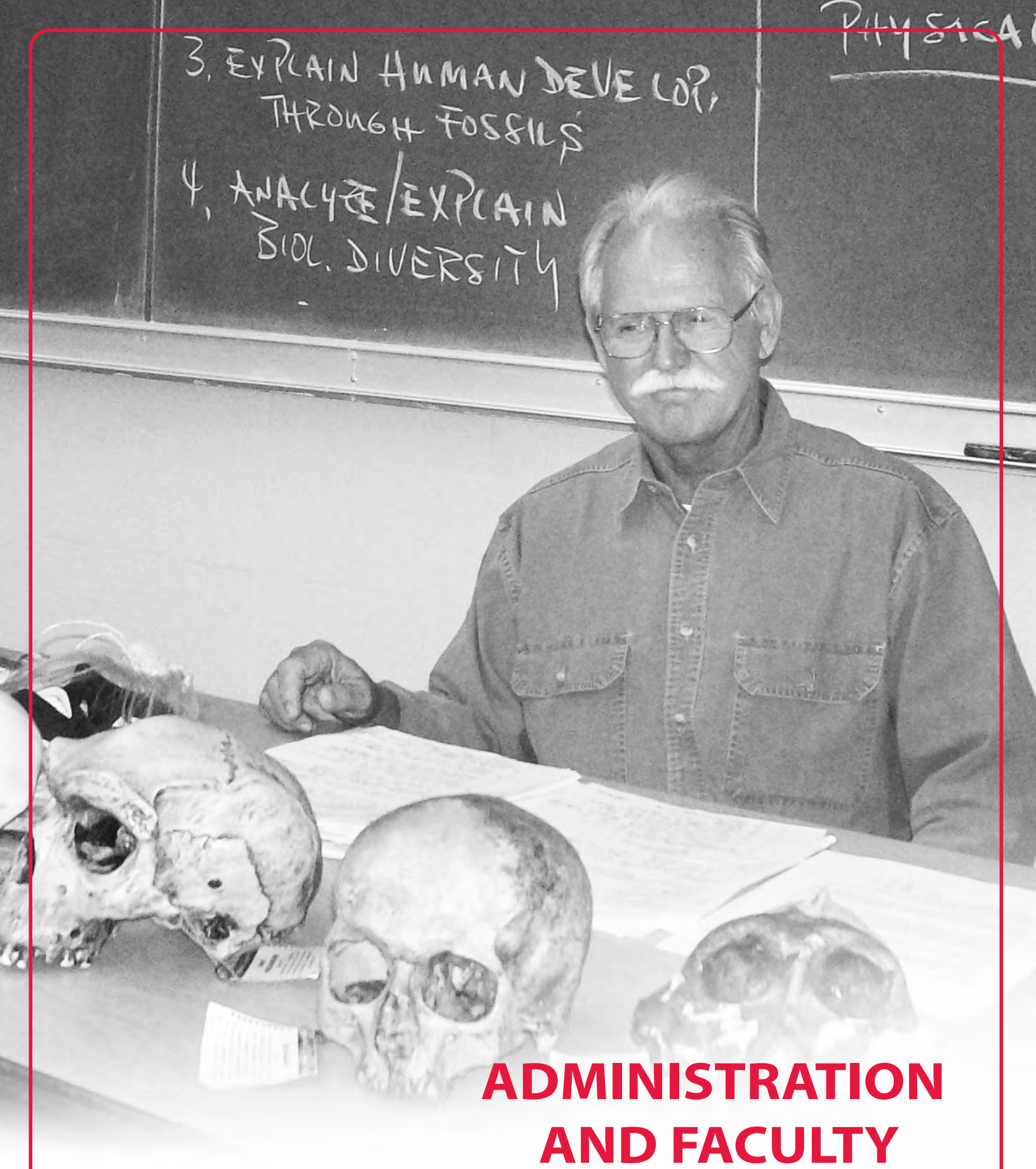

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Dean of Admissions
1967-2003

STEARNS, HAROLD †
Speech
1973-1986

STONE, JAMES †
Mathematics/Music
1966-1986

STROUD, VIVIAN
Nursing
1980-2011

STUART, BARBARA
English
1990-2007

SUCZEK, PETER
Psychology and Sociology
1974-2005

SWANN, MARIE †
English
1964-1980

THOMPSON, BLAINE
Business
1962-1999

THORNBURG, WILLIAM †
VP for Business Services
1967-1990

TOPPER, IRENE †
Nursing
1976-1984

UPSON, JOHN †
English
1966-1977

VALENTINE, BARBARA
Early Childhood Education
1978-1999

VALENTINE, MARTIN
English
1976-2003

VON WERLHOF, JAY †
Anthropology/Social Science
1973-1991

WALKER, JAMES D.
VP/Academic Services/Deputy
Superintendent
1969-1996

WASSON, HENRY †
Math/Science
1962-1994

WEISSMAN, HARRY †
English
1969-1980

WELCH, T. LARRY
Librarian
1994-2004

WENDRICK, MARY
English
1990-1999

WENDRICK, MEL †
Director of DSP&S
1973-1999

WHITE, HOWARD †
Law Enforcement
1969-1979

WHITE, RAY
Automotive Technology
1964-1998

WILHELM, ROBERT
Geography & Political Science
1970-2003

WILLIAMS, RICHARD †
Psychology
1974-1999

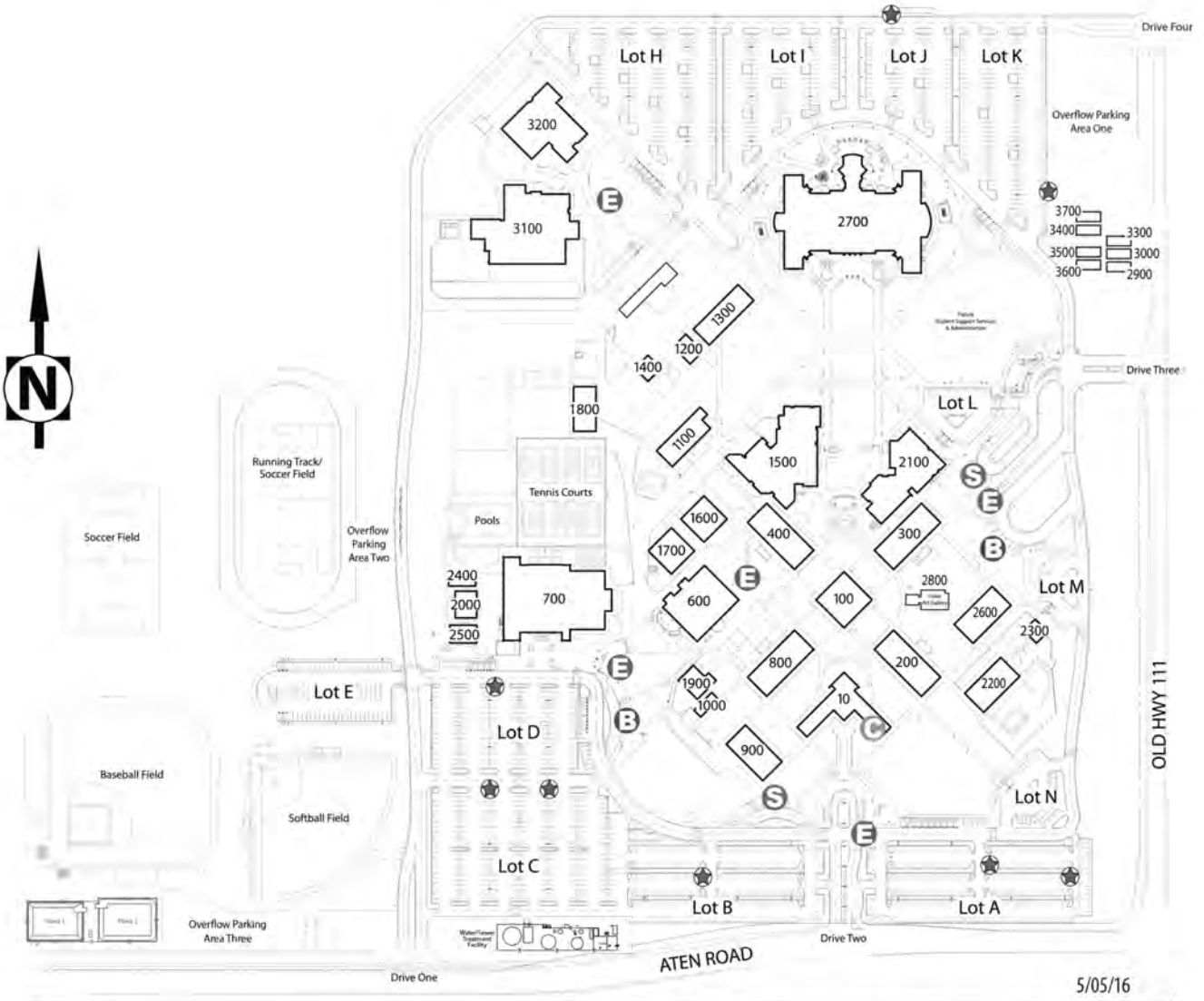
WILSON, PATRICIA
English
1970-1991

ZOBELL, SHERRY
Math
1998-2009

† Deceased

Imperial Valley College

Campus Map



LEGEND

10 Administration/Admissions & Records/IVC Foundation Office
100 Counseling/Career Center
200 Classroom Building
300 Classroom Building
400 Assessment Center/Classrooms
600 College Center/Cafeteria/ Military & Veterans Success Center
700 Gymnasium
800 Business/CIS
900 Information Technology/ Reprographics/ Campus Safety & Parking
1000 Student Affairs Office
1100 Industrial Technology
1200 Industrial Technology
1300 Classroom Building
1400 Tool Storage
1500 Library Media Center/ Student Health Center
1600 Classroom Building
1700 Financial Aid
1800 Maintenance/Purchasing/ Warehouse
1900 Bookstore
2000 Talent Search/Upward Bound
2100 Health Sciences/ Disabled Student Services
2200 Preschool
2300 Infant Toddler Center
2400 Human Resources
2500 Math Lab Center
2600 Reading/Writing/Language Lab
2700 English/Sciences/Math/Offices
2800 Juanita Salazar Lowe Art Gallery
2900 Classroom - Temporary Building
3000 Classroom - Temporary Building
3100 Career Technical Education Building/ Workforce Development Center
3200 Career Technical Education Building
3300 Restroom Facility - Temporary Building
3400 Classroom - Temporary Building
3500 Classroom - I.C.O.E
3600 Classroom - Temporary Building
3700 Classroom - Temporary Building

Parking/Day Pass Machine | Student Drop Off | Bus/Transit Drop Off | Cashier/Student Payments | Emergency Call Box

Index

A

Academic Calendar 6
Academic Freedom Statement 34
Academic Renewal 42
Accreditation 2
Addiction Disorder Studies 63, 239
Adding Classes 17
Administration of Justice 65, 240
Administration of Justice (For Transfer) 67
Admission and Registration 11
Agriculture 242
Agriculture Business (For Transfer) 69
Agriculture Business Management 71
Agriculture Plant Science (For Transfer) 73
Agriculture Plant Science 75
Air Conditioning and Refrigeration 77, 242
Allied Health Professions 244
Alternative Energy-Solar Technology 79
American Indian Studies 244
American Sign Language 245
Anthropology (For Transfer) 81
Anthropology 246
Application 12
Apprenticeship Courses of Instruction 231
Apprenticeship Training Programs 49, 208
Apprenticeship-Control Operator 209, 231
Apprenticeship-Electrician 211, 231
Apprenticeship-Generation Mechanic 213, 231
Apprenticeship-Hydro Operator 215, 232
Apprenticeship-Instrument Technician 217, 232
Apprenticeship-Meter Technician 219, 233
Apprenticeship-Power Lineman 221, 233
Apprenticeship-Relays Technician 223, 233
Apprenticeship-SCADA/Telecommunications Technician 225, 234
Apprenticeship-Substation-Electrician 227, 234
Apprenticeship-Telecommunications Technician 229, 235
Arabic 246
Art 247
Assessment 19
Associate Degrees 48, 50, 51
Astronomy 248
Athletics 28, 249
Attendance and Administrative Withdrawals 42
Automotive Technology 83, 250

B

Behavioral Science 95
Biology 253
Biology (For Transfer) 97
Board Of Trustees 5
Bookstore and College Center 30
Brakes, Suspension, and Steering 85
Building Construction 254
Building Construction Technology 99
Business Accounting Technician 103
Business Administration 256
Business Administration (For Transfer) 105
Business Administrative Assistant 107
Business Management 109
Business Office Technician 111

C

California State University General Education Breadth 54, 113
CalWORKs Program (CalWORKs) 27
Campus Map 327
Campus Regulations 34
Campus Safety 46
Career Technical Education 49
Centers for Students 32
Certificates of Achievement Programs 48, 62
Challenge Process 19
Changes in the Catalog 36
Cheating and Plagiarism 36
Chemistry 258
Child Development 115, 259
Cisco CCNA Discovery 119
Class Attendance 36
College Polices, Rules and Regulations 34
College Mission 9
Communication Studies 262
Communication Studies (For Transfer) 121
Community Service Classes 30
Computer Information Systems 123, 262
Computer Sciences (For Transfer) 125, 265
Cooperative Agencies Resources for Education (CARE) 27
Correctional Science 127, 266
Counseling Services 25
Counseling 267
Courseload Limits 36
Courses of Instruction 238
Credit by Examination 38
Credit for Advanced Placement Examinations (AP) 38
Credit for College Level Examination Program (CLEP) 41
Credit for Correspondence and Extension Courses 38
Credit for Military Service 38
Credit for Regional Occupational Program Courses 49
Credit for Upper Division Course Work 38
Credit from Foreign Institutions 42
Cross Enrollment Program (CSU/UC) 60

D

Degrees 9
Diesel Farm Machinery and Heavy Equipment 129
Digital Design and Production 131
Disabled Student Programs and Services (DSPS) 267
Disclaimer 2
Distance Education 29
District Administration 322
Dropping Classes 17

E

Early Childhood Education (For Transfer) 133
Early Education Labs 30
Economics 268
Education 268
Educational Master Plan 8
Educational Talent Search 26
Electrical/Electronic and Air Conditioning 87
Electrical Technology 135
Electrical Trades 139, 268
Electrical Wiring 269
Electronics 269
Elementary Teacher Education (For Transfer) 141
Eligibility 12
Emergency Medical Services 143
Emergency Medical Technician 270
Emergency Medical Technician - Paramedic 270
Emeritus Faculty 325
Energy Efficiency Technology 145
Engine Performance and Drivability 89
Engine Repair and Machinist 91
Engineering 272
English 272
English (For Transfer) 147
English as a Second Language 274
Enrollment Fees 20
Environmental Science 277
Extended Opportunity Program and Services (EOPS) 27

F

Faculty 320
Family Educational Rights and Privacy (FERPA) 34
Fees and Refunds 20
Financial Aid 24
Film Studies 277
Fire Science 277
Fire Technology 153
Firefighter I 147
Foreign Transcripts 42
Formal Resolution 45
French 155, 279

G

General Science 157
Geography 280
Geology 280
Grading System 37
Graduation Requirements 51

H

Health Education 281
History 281
History (For Transfer) 159
History of the College 7
Humanities 163, 283

I

Informal Resolution 44
Institutional Student Learning Outcomes 10
Intersegmental General Education
Transfer Curriculum (IGETC) 57, 165

J

Journalism 283

K

Kinesiology (For Transfer) 167

L

Latina/Latino Studies 283
Learning and Tutoring Services Centers 32
Legal Assistant 284

M

Majors 48, 50
Mathematics 285
Mathematics (For Transfer) 169
Mathematics Prerequisite Chart 310
Medical Assistant 171, 288
Military and Veterans Success Center (MVSC) 27
Music 288
Music (For Transfer) 173

N

Nondiscrimination and Sexual Harassment Policy 34
Non-Credit Education 30
Nursing Appendix 311
Nursing-Associate Degree (R.N.) 175, 291
Nursing-Vocational (V.N.) 177, 294

O

Online Services and Distance Education 29
Open Enrollment 36
Other Fees/Charges 21

P

Parking 46
Parking Fee 21
Peace Officer Standards and Training (POST) Appendix 315
Petition And Hearing Process 46
Pharmacy Technician 179, 295
Philosophy 295
Physical Education 181, 296
Physical Science 183, 299
Physics 299
Policy for Earnibg College Credit 38
Political Science 299
Political Science (For Transfer) 185
Pre-Engineering 187
Prerequisite, Corequisite, Advisories On
Recommended Preparation and Limitations
On Enrollment 19
President's Message 4
Probation, Dismissal, Reinstatement 43
Proficiency Enrollment 36
Psychology 299
Psychology (For Transfer) 189

R

Reading 301
Refund Policy 21
Registration 15
Regulations 31
Religious Studies 301
Renewable Energy 302
Repeating Courses 18
Residency 12

S

Scholarships 25
Scholastic Honors 37
Social Science 191
Social Work 303
Sociology 303
Sociology (For Transfer) 193
Spanish 303
Spanish (For Transfer) 195
Spencer Library and Media Center 31
Strategic Educational Master Plan 8
Student Activities 30
Student Conduct 43
Student Complaint Policy 44
Student Email 29
Student Health Services 30
Student Success and Support Program 18
Student Support Services and Special Programs 26
Studio Arts (For Transfer) 197
Summer Session 238

T

Table of Contents 3
Theatre Arts 305
Transcript Fee 21
Transfer Center 26
Transfer Credit 38
Transfer Planning 53
Transfer Preparation 53
Transmission and Power Train 93
Types of Courses and Programs 9

U

University Studies 199
Upward Bound 26

V

Veterans Services 28
Voluntary Withdrawal 43

W

Wait Lists 17
Water Treatment Systems Technology 203, 305
Welding 306
Welding Technology 205
Western Undergraduate Exchange (WUE) 53
Work Experience 31, 307

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