



# ANNIVERSARY

— IMPERIAL VALLEY COLLEGE —



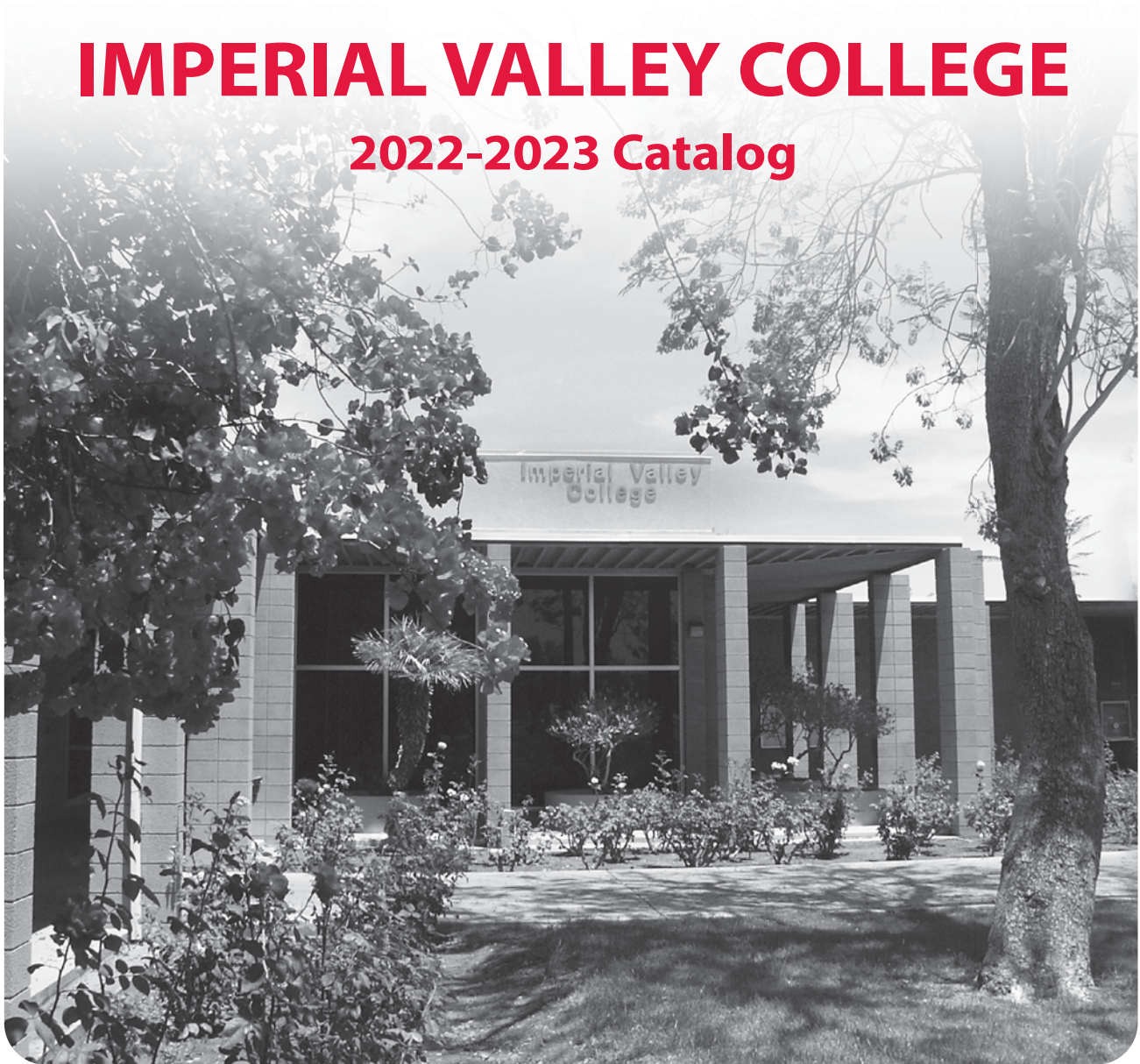
## 2022-2023 Academic Catalog

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



# IMPERIAL VALLEY COLLEGE

## 2022-2023 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 • (760) 352-8320 • [www.imperial.edu](http://www.imperial.edu)

#### 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](http://www.imperial.edu)), class schedules, public media, and at the time of registration to notify students of any changes in the course descriptions or college policies, as presented herein. Students with questions or concerns about a specific course need to contact a counselor at (760) 355-6543. Questions or concerns regarding standard practice and process can be directed to the Office of Admissions and Records at (760) 355-6101.

## 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 (415) 506-0234. [www.accjc.org](http://www.accjc.org)

ACCJC is an accrediting organization recognized by the Council for Higher Education Accreditation (CHEA) and the U.S. Department of Education (USDE)

For the policy and process for filing formal complaints please visit the ACCJC website at: [www.accjc.org/complaint-process](http://www.accjc.org/complaint-process)

#### **Program Accreditations**

##### **Commission on Accreditation of Allied Health Education Programs (CAAHEP),**

*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](http://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](http://www.caade.org)

##### **California Board of Registered Nursing**

P.O. Box 944210, Sacramento, CA 94244-2100. Ph: (916) 322-3350. [www.rn.ca.gov](http://www.rn.ca.gov)

##### **California Board of Vocational Nurse and Psychiatric Technicians**

2535 Capitol Oaks Drive, Suite 205, Sacramento, CA 95833. Ph: (916) 263-7800. [www.bvnpt.ca.gov](http://www.bvnpt.ca.gov)

##### **California State Fire Marshal/State Board of Fire Services**

P.O. Box 94246, Sacramento, CA 94244-2460. Ph: (916) 445-8444. [www.fire.ca.gov](http://www.fire.ca.gov)

##### **ASE Education Foundation**

1503 Edwards Ferry Road, NE, Suite 401, Leesburg, VA 20176. Ph: (703) 669-6650. [www.ASEeducationfoundation.org](http://www.ASEeducationfoundation.org)

#### **Certified/Approved Academic Programs**

##### **American Welding Society, Educational Institution Member, National Skill Standards Education (SENSE)**

8669 Doral Boulevard, Suite 130, Doral, FL 33166. Ph: (305) 443-9353, Ext. 259. [www.aws.org/membership](http://www.aws.org/membership)

##### **California Commission on Peace Officers Standards and Training**

1601 Alhambra Blvd., Sacramento, CA 95816-7086. Ph: (916) 227-3909. [www.post.ca.gov](http://www.post.ca.gov)

##### **California Board of State and Community Corrections (BSCC)**

2590 Venture Oaks Way, Ste. 200, Sacramento, CA 95833. Ph: (916) 445-5073. [www.bscc.ca.gov](http://www.bscc.ca.gov)

##### **North American Board of Certified Energy Practitioners (NABCEP)**

56 Clifton Road, Suite 102, Clifton Park, NY 12065. Ph: (800) 654-0021. [www.nabcep.org](http://www.nabcep.org)

#### **Licensed Program**

##### **Community Care Licensing Department of Social Services**

8765 Aero Drive, Suite 300, San Diego, CA 92123. Ph: (858) 467-4388

#### **A member of**

Accrediting Commission for Community and Junior Colleges (ACCJC)

Association of Community College Trustees (ACCT)

California Association of Latino Community College Trustees and Administrators (CALCCTA)

California Community College Equity Leadership Alliance

California Community Colleges Academic Senate Community College League of California (CCLC)

Academic Senate for California Community Colleges (ASCCC)

Hispanic Association of Colleges and Universities (HACU)

Imperial County School Boards' Association

Imperial Valley Economic Development Corporation (IVEDC)

National Academy of Early Childhood Programs

San Diego and Imperial Counties Community Colleges Association (SDICCCA)

#### **Approved for**

The Veterans Administration

# TABLE OF CONTENTS

Accreditation.....	2	<b>College Policies, Rules and Regulations</b> .....	47
President’s Message .....	4	Academic Freedom .....	48
Board of Trustees .....	5	Nondiscrimination and Sexual Harassment Policy.....	48
Administration.....	6	Family Educational Rights and Privacy (FERPA).....	49
2020-2021 Academic Calendar .....	7	Changes in the Catalog .....	51
About Imperial Valley College .....	8	Campus Regulations .....	51
2030 Vision Comprehensive Master Plan .....	11	Courseload Limits.....	51
Mission Statement.....	11	Class Attendance .....	52
Types of Courses and Programs.....	11	Open Enrollment .....	52
Degrees.....	12	Proficiency Enrollment .....	52
Institutional Student Learning Outcomes .....	12	Cheating and Plagiarism.....	52
<b>Admission and Registration</b> .....	15	Grading System .....	53
Eligibility .....	16	Scholastic Honors.....	55
Application .....	16	Credit for Prior Learning (CLP) and Transfer Credit.....	55
Residency .....	17	Advanced Placement Chart .....	59
Registration .....	21	Credit for College Level Examination Program (CLEP).....	60
Wait Lists.....	23	Foreign Transcripts.....	63
Adding Classes .....	24	Academic Renewal.....	63
Dropping Classes.....	24	Attendance and Administrative Withdrawals .....	64
Repeating Courses .....	25	Voluntary Withdrawal .....	64
Fees and Refunds.....	25	Probation - Dismissal – Reinstatement.....	64
Other Fees/Charges .....	27	Student Conduct .....	65
Student Equity & Achievement Program .....	27	Student Rights and Grievances Policy .....	67
Prerequisite, Corequisite, Advisories On Recommended Preparation And Limitations On Enrollment .....	29	IVC Campus Safety .....	72
Challenge Process .....	29	IVC Parking.....	72
<b>Student Support Services and Special Programs</b> .....	31	<b>Degrees, Certificates and Transfer Planning</b> .....	75
Financial Aid.....	32	General Education.....	76
Scholarships .....	33	Associate Degree Graduation Requirements .....	76
Counseling Services.....	33	Certificates of Achievement .....	77
Transfer Center .....	34	Career Technical Education (CTE) .....	77
Disabled Student Programs and Services (DSPS) .....	34	Apprenticeship Training Programs.....	78
Educational Talent Search .....	35	Associate Degree and Certificate Listing .....	79
Upward Bound .....	35	Graduation/General Education Requirements .....	80
Student Support Services (SSS).....	35	Transfer Planning.....	82
Extended Opportunity Program and Services (EOPS) .....	36	Western Undergraduate Exchange (WUE) .....	83
CalWORKs Program (CalWORKs) .....	36	The California State University.....	84
Military & Veteran Success Center .....	36	The University of California.....	88
Veterans Services.....	36	Intersegmental General Education Transfer Curriculum (IGETC).....	89
Online Services and Distance Education .....	38	Cross Enrollment Program at a California State University or University of California Institution .....	91
Student Email.....	38	<b>Associate Degree and Certificate of Achievement Programs</b> .....	93
Distance Education.....	39	<b>Apprenticeship Training Programs</b> .....	251
Athletics .....	39	<b>Courses of Instruction</b> .....	275
Bookstore and College Center.....	39	Common Courses.....	276
Early Education Labs .....	39	Winter and Summer Sessions.....	276
Community Service Classes.....	40	<b>Catalog Appendix</b> .....	341
Exercise Science, Wellness, and Sport Program.....	40	Mathematics Prerequisite Chart .....	342
Non-Credit Education .....	40	Nursing Appendix.....	344
Student Activities .....	40	Peace Officer Standards and Training (POST) Appendix .....	351
IVC Cares - SEA Basic Needs Center.....	41	Fire Academy Appendix .....	356
Student Health Services .....	42	<b>Administration and Faculty</b> .....	357
Spencer Library and Media Center.....	43	Emeritus Faculty .....	365
Information Literacy/Competency.....	44	<b>Campus Map and Directory</b> .....	370
Tutoring Centers for Students.....	45	<b>Index</b> .....	371

## President's Message



Dear IVC Students,

On behalf of the faculty, staff, administration, and Board of Trustees, welcome to Imperial Valley College and thank you for choosing IVC as your educational partner.

You are attending IVC at a very exciting time.

For the year 2022-23, the Aspen Institute has recognized Imperial Valley College as a top 10 community college in the nation for educational excellence. As a new student, you are joining a community college with outstanding achievements in five critical areas: 1) Teaching and learning, 2) Certificate and degree completion, 3) Transfer and bachelor's degree attainment, 4) Workforce success, and 5) Equity for

students of color and students of low-income backgrounds.

This is an incredible accomplishment and validates the exceptional work our Board of Trustees, faculty, staff, and administration are doing to ensure all students achieve their academic and career goals. You are in good hands.

In addition to being a top 10 community college in the nation, we are excited to celebrate the college's 60th anniversary. It comes at a time when IVC is evolving at a rapid pace. We plan to celebrate throughout the year, as we have thousands of alumni and friends of the college who have contributed greatly to the college's 60 years of success.

The 60th anniversary also marks an exciting new beginning for the college in several ways. The college is undergoing major expansion and renovation projects to enhance our students' learning and co-curricular experience. For instance, the nursing, college center, library, and several instructional buildings have been or are in the process of being remodeled. These new state-of-the-art facilities will be visually pleasing and have the most up-to-date technology, classrooms, laboratories, and learning centers.

The pandemic has also made IVC reevaluate its course modality offerings. Pre-pandemic, only about 10% of the courses were online; now, more than 30% of our courses are online. We are excited that students have the flexibility to take classes in a myriad of modalities, including face-to-face, online synchronous and asynchronous, hybrid, and hyflex. With these options, students can tailor their learning schedule around their work and homelife schedules to meet their individual needs.

I hope you are as excited as I am about the future of Imperial Valley College. Our college and its accomplishments are the sums of work of more than 300 employees, 10,000 students, and countless alumni, parents, and supporters. Thank you for entrusting us with your education. We are sure you will have an exciting academic year that will move you closer to achieving your career and educational goals.

***Dr. Lennor M. Johnson***  
***Superintendent/President***

## Board and District Administration

### 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.



**Hortencia Armendariz**  
Area 1



**Karla A. Sigmond**  
*Board President*  
Area 2



**Jerry D. Hart**  
Area 3



**Isabel Solis**  
Area 4



**Mark Edney**  
Area 5



**Romualdo J. Medina**  
*Board Clerk*  
Area 6



**Steven M. Taylor**  
Area 7

## District Administration

Superintendent/President -- Dr. Lennor M. Johnson  
Interim Vice President for Academic Services -- David A. Drury  
Interim Vice President for Student Services and Equity -- Victor C. Torres  
Vice President for Administrative Services -- Cesar Vega  
Dean of Student Affairs and Enrollment Services -- James Dalske  
Dean of Student Services and Special Projects -- Alexis Villa  
Dean of Instruction - Economic and Workforce Development -- Efrain Silva  
Dean of Instruction - Health and Public Safety -- Gail Warner  
Dean of Instruction - Arts, Letters and Learning Services -- Betsy Lane  
Interim Dean of Instruction - Math & Sciences -- Dr. Cuauhtemoc Carboni  
Interim Associate Dean of Nursing and Allied Health -- Dr. Daniel G. Ortiz, Jr.  
Associate Dean of Workforce Preparation and Community Special Projects -- Victor C. Torres  
Associate Dean of Student Equity and Achievement -- Vacant  
Associate Dean of Institutional Effectiveness, Equity and Student Success -- Jose Carrillo  
Associate Vice President of Human Resources -- Clint Dougherty  
Associate Vice President Information Technology -- Jeffrey Enz  
Communications and Governmental Relations Officer -- Elizabeth Espinoza

# IMPERIAL VALLEY COLLEGE 2022-2023 ACADEMIC CALENDAR

## Fall Semester 2022

August	12	Friday	Orientation (Service Day – All Faculty and Staff)
	15	Monday	Fall 2022 Semester Begins
	20	Saturday	First Day of Fall 2022 Saturday Classes
September	5	Monday	Holiday (Labor Day) – Campus Closed
November	11	Friday	Holiday (Veterans Day) – Campus Closed
	21-22	Monday-Tuesday	No Classes – Campus Open
	23-26	Wednesday-Saturday	Holiday (Thanksgiving) – Campus Closed
December	10	Saturday	Fall 2022 Semester Ends
	12-16	Monday-Friday	No Classes – Campus Open
	19-31	Monday-Friday	Winter Recess – Campus Closed

## Winter Session 2023

January	2	Monday	Winter Session 2023 Begins
	16	Monday	Holiday (Martin Luther King Jr's Birthday) – Campus Closed
February	3	Friday	Winter Session 2023 Ends

## Spring Semester 2023

February	13	Monday	Spring 2023 Semester Begins
	17	Friday	Holiday (Lincoln's Birthday) - Campus Closed
	20	Monday	Holiday (Washington's Birthday) - Campus Closed
April	10-15	Monday-Saturday	Spring Recess – Campus Closed
May	29	Monday	Holiday (Memorial Day) – Campus Closed
June	9	Friday	Spring 2023 Semester Ends
	10	Saturday	Commencement

## Summer Session 2023

June	19	Monday	Summer Session 2023 Begins
July	4	Tuesday	Holiday (Independence Day) – Campus Closed
	27	Thursday	Summer Session 2023 Ends



# About Imperial Valley College

## Celebrating a “Diamond Jubilee Year”

When classes resume for the Fall 2022 Semester, the occasion will mark a major milestone for the Imperial Valley College campus on Aten Road.

This could be called a Diamond Jubilee year for IVC. September marks 60 years since students first filled classrooms on the campus.

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.

It had all begun three years before, on October 6, 1959, when the Imperial Community College District (then called the Imperial Valley Junior College District) was formed by an overwhelming vote of local residents. 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 the new IVC campus on Aten Road.

## IVC’s Legacy

While this year’s IVC Diamond Jubilee marks a significant turning point in our Valley’s higher education opportunities, this legacy actually began in 1922 with the founding of Central Junior College in El Centro.

It was in September, 1922 that the first classes were held there, in a building located on the grounds of Central Union High School. 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. The former college building is still used as classrooms at BUHS.

In the fall of 1951, Central Junior College students petitioned their governing board, 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.

After the new college district was formed, IVC classes were held on the Imperial High School campus, in “temporary” buildings while the Aten Road campus was constructed. Those “temporary” buildings were later moved to the Aten Road site and served as IVC classrooms for the next five decades.

The building that once housed IVC on the CUHS campus was used as high school classrooms until it was torn down when construction began on Central’s new STEM building that opened last year.

## IVC Expansion

When IVC and the new college district opened 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, agricultural education classrooms and a shop.

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 rededicated 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 in those early years 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 state-funded building that now houses Health Technologies programs. The \$2.2 million project was completed at the end of 1987.

IVC passed its second General Obligation bond in 1987. It was a \$2.5 million measure that allowed the college to do major campus refurbishing and other general improvements.

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 million project included a complete renovation of the existing library.

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.

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.

## Campus Redefined

Thanks to the passage of two bond measures (in 2004 and 2010), the IVC campus marked its 50<sup>th</sup> 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 award winning expansion plan included Xeriscape landscaping and people-scaled features that not only altered the aesthetics of the campus, but redefined the pivotal role integrated uses can play with the incorporation of expanded public transit facilities.

Funding came from a variety of sources including the \$58.6 million Measure L bond issue passed in 2004 and the \$80 million Measure J 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 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. The 70,000 square foot, two-story, classroom and laboratory building 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 Education (CE) buildings, which opened for classes in the Fall 2014. They are home to classrooms that train students 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.

Amid all of this expansion, IVC also lost a historic part of the campus in 2014 when the "500 Buildings" are demolished. Those were the "temporary" buildings that were once situated on the Imperial High School grounds and housed the IVC campus when it first became a district in 1960. The demolition was part of an agreement with the State of California when it provided matching funds for renovation of other classrooms on campus.

Other recent construction has also significantly improved services to students.

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.

In 2017, in recognition that there are some Imperial Valley College students who are facing food insecurity, the college opened a Food Pantry on campus.

Additionally, in 2021, in a partnership with the City of El Centro and the IVC Foundation, the college opened Lotus Living Tiny Homes in El Centro. It consists of 26 units to serve students experiencing housing insecurity or other challenges.

The new Mel Wendrick Access Center for Disabled Support Programs and Services (DSP&S) also opened in 2021.

There is other construction currently in progress on campus. That includes the modernization of Academic Buildings 200, 300, and 800, and Nursing Building, and expansion of the College Center.

In addition, in a significant diamond jubilee campus change, plans are being finalized to replace the existing 60-year-old classrooms that have housed automotive training since the campus opened. The \$30 million project will include a 30,000 square-foot building to be built on the northwest side of the campus in the same general location where the current auto technology classrooms are located. Two current buildings, a diesel laboratory and the art and humanities building, will be removed when construction begins.

Today IVC is an oasis of learning with an attractive and inviting campus thanks to the magnificent support of the communities it serves.

IVC staff works hard to bring the same inviting atmosphere into each classroom, and looks forward to celebrating this Diamond Jubilee.

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

**Dr. 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 Jaime..... 2012-2018**  
**Dr. Martha Garcia.....2018-2021**  
**Dr. Lennor M. Johnson..... 2021-Present**

## 2030 Vision Comprehensive Master Plan

The Imperial Valley College 2030 Vision Comprehensive Master Plan serves as the blueprint for the College's organizational development and the fulfillment of its mission to foster excellence in education that challenges students in achieving their educational and career goals, and responds to the needs of the greater community. Specifically, the plan aligns the College's strategic goals and objectives, including those of instructional programs, student equity and achievement programs, technology, human resources staffing, enrollment management, long-range financial plans, and campus development plan, with those established in the Vision for Success.

Notably, the Comprehensive Master Plan which was developed in the midst of an unprecedented global pandemic, is designed to transform Imperial Valley College into a more agile institution that shapes its future through strategic responses to challenging socioeconomic conditions, system-wide initiatives, shifting priorities, rapidly-accelerating technological changes, climate change, and critical matters of diversity, equity, and inclusion. The 2030 Vision Comprehensive Master Plan positions IVC to build upon its successes while intensifying its focus on student success and creating a more agile and resilient future campus.

## 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 Title 5, California Code of Regulations (CCR) Section 55061, 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

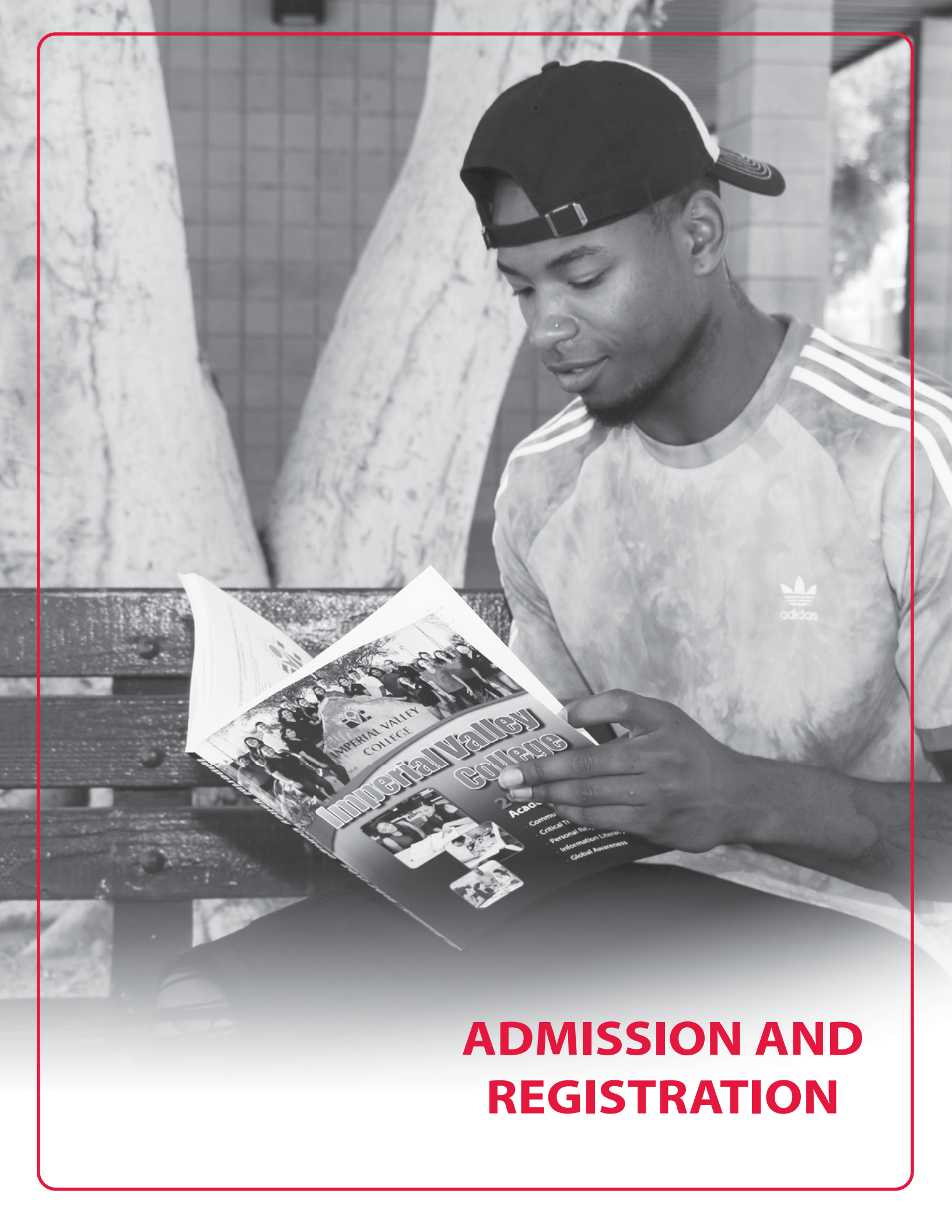
**Definition:** Global awareness is the acknowledgement that we live and work with people with diverse backgrounds. It includes an understanding of how the individual fits within evolving social, cultural, and economic contexts at global, national, and local levels.

**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.

This Page Intentionally Left Blank



## **ADMISSION AND REGISTRATION**



# Admission and Registration

## 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 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.

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. **Concurrent Enrollment:** A High school student who is recommended by the high school principal for one to 11 units of work. A special Student Application for Concurrent Enrollment must be submitted along with the IVC Application for Admission. Deadline dates and requirements for each term are noted on the application.

5. **Dual Enrollment:** A high school student who takes IVC courses offered at their high school, and who is recommended by their counselor or principal for one to 15 units of work (must also have parental consent). A Special Admit Student Dual Enrollment Application must be submitted along with the IVC Application for Admission. Deadline dates for each term are noted on the application.

6. **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 Valley College as soon as possible to be granted course credit as appropriate.

7. **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 be 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](http://www.imperial.edu). Click on the "Apply Now" box located on 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 staff. 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.

### **Admission of Dual Enrollment Students in Grades 10-12**

Each semester, prior to being allowed to register, students who wish to take IVC classes offered on the high school campus must complete the Special Admit Student Dual Enrollment Application (available from high school counselors). Deadline dates for each term are noted on the application. Dual Enrollment students must also meet course prerequisites. Please contact Associate Dean/Special Projects, Victor Torres for more information at (760) 355-6311.

## **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. Residency classifications are to be made in accordance with the following provisions: 1.) A residency determination date is the day immediately preceding the semester. 2.) Residency 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 elsewhere 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 cannot 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 an appeal to the Admissions and Records Office within 10 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 will 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 no later than 5 business 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.

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](http://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](http://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](http://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](http://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.

## 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**

**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 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 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 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.

### **My Priority Registration Time and WebSTAR**

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: <https://www.imperial.edu/students/my-priority-registration-time/>.

### **Maintaining Student Contact Information**

It is important for students to maintain current contact information, including the phone number and mailing address in their college record. Your mailing address and phone number may be updated through the student's WebSTAR account under "Personal Information."

### **Priority Registration Times**

The California Community Colleges Board of Governors determines an enrollment priority system 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 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.
- **Two consecutive primary terms of Probation will lead to loss of the CCPG 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.
2. A student with disabilities who applied for but didn't receive accommodation in a timely manner.
3. For students enrolled in high unit majors.

Students may appeal the loss of the CCPG 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 [Admissions and Records - Forms for Students](#).

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 at My Priority Registration Time once they login two 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 IVC. 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](mailto: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 Student Equity and Achievement Program 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
2. The student is already enrolled, or on a wait list for another section of the same class
3. The wait list is full
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 (Petition available in Admissions & Records office)
2. The class will cause the student to go over the maximum number of units allowed
3. Another section of the same course is already on the student schedule



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. Please plan accordingly.

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 My Priority Registration Time at <https://www.imperial.edu/students/my-priority-registration-time/>.

**During the first two weeks of instruction:** Registration may occur only after attaining an add authorization code from the instructor of the class.

Registration is not complete until all fees are paid.

### 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.

### 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."

Instructors are required by Title 5 to drop inactive enrollments prior to the census date. Drops after the 75% deadline are not permitted except under documented extenuating circumstances. These situations

must be due to substantiated illness, accident, or events beyond the student's control that prohibit continuation in classes.

## 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.
- Students who have withdrawn with an Excused Withdrawal (EW) may repeat course(s) from which they have withdrawn. The "EW" grade does not affect GPA, nor does it count toward the permitted number of repetitions.
- Students who have an In Progress (IP) or Incomplete (INC) will not be allowed to register for any class that requires that class as a prerequisite.

### 2. LAPSE OF TIME

Courses completed with a satisfactory grade may petition to repeat one additional time only if a significant lapse of time, of at least three years, has passed and/or a recency mandate for employment or educational program is required.

All repeated grades will replace previous attempts earned.

### 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.

## FEES AND REFUNDS

**ALL** fees are subject to change without advanced 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 (Nelnet) 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 \$332.00 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 \$332.00 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 \$20.00 per term**
- **Summer/Winter \$16.00 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 \$2.00 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.

<b>Fall/Spring</b>	<b>\$25 per vehicle</b>
	<b>\$20 each additional vehicle</b>
	<b>\$15 per motorcycle</b>
<b>Summer/Winter</b>	<b>\$15 per vehicle</b>
	<b>\$10 each additional vehicle</b>
	<b>\$12 per motorcycle</b>

Order parking permits online at <https://www.imperial.edu/legacy/students/parking-control/on-line-parking-permit/>

## 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) 355-6464 or (760) 355-6240.

### Diploma/Certificate Fees

Imperial Valley College does not charge for the initial Diploma or Certificate. A Diploma and/or Certificate will be withheld if the student owes any fees to IVC. IVC will keep the diploma/certificate for 90 days. A student may order a reprint of a diploma/certificate at an additional cost. The cost is \$20.00 for each diploma or certificate.

### Student Inmate

Duplicate degree requests will have a charge as noted above.

### Transcript Fee

Imperial Valley College is able to offer to our current and alumni students Secure Transcript from Parchment (formerly Credentials) – 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](http://www.imperial.edu).

### Student Inmate

Imperial Valley College will provide official transcripts free of charge to current IVC student inmates at the prisons that IVC offers instruction to. The request will be limited to two transcripts per semester while the student inmate is enrolled. Requests for transcripts from other student inmates (not a current IVC student) and other prison sites are treated as any other student.

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

## Student Equity & Achievement Program

The Student Equity & Achievement Program formerly (SSSP) is a program 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 Equity & Achievement 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
- Placement
- Academic Advisement

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

\*All students who enrolled from Fall 2014 to the present are required to complete the Core Services below.

## 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.

## AB 705 Placement

Assembly Bill (AB705) is a bill signed by the Governor on October 13, 2017. The bill requires that a community college district or college maximize the probability that a student will enter and complete transfer-level coursework in English and Math within a one-year timeframe and use, in the placement of students into English and Math courses, one or more of the following: high school coursework, high school grades, and high school grade point average.

## AB 705 ESL

Students who have acquired a United States high school diploma or the equivalent shall be placed according to §55522. ESL students with a **goal of transfer to a four-year institution** or an **associate degree** should enter and complete a transfer-level English composition course or an ESL course equivalent to transfer-level English within a three-year timeframe of declaring a transfer degree-seeking goal.

## Counseling

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 the student's educational goal, and personal interests.

**\*\*If new students do not complete the matriculation requirements it will affect their registration priority.**

## 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 (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 for guaranteed consideration. 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.

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)



## **STUDENT SUPPORT SERVICES AND SPECIAL PROGRAMS**



## 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 federal 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 California 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.

#### 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](http://www.fafsa.ed.gov). Undocumented students who meet AB540 criteria may apply for state aid using the California Dream Act Application (CADAA) at <https://dream.csac.ca.gov>.

#### 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.

#### Financial Aid Programs at IVC

##### STATE PROGRAMS

- California College Promise Grant: A program for California residents attending a community college. This grant waives 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](http://www.csac.ca.gov)

- Student Success Completion Grant: A state-funded grant program that pays additional funds to Cal Grant B and C recipients who enrolled in 12 or more units.
- Chafee Grant: A state-funded program available for current or former youth to use for career and technical training or college courses.

## FEDERAL PROGRAMS

- Federal 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.

## 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](http://www.imperial.edu/scholarships)

### 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](http://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 June. Scholarships are also available from sources beyond Imperial Valley College. The following sites may be helpful:

- [www.imperial.edu/scholarships](http://www.imperial.edu/scholarships)
- [www.CollegelsNext.com](http://www.CollegelsNext.com)
- [www.FastWeb.com](http://www.FastWeb.com)
- [www.College-Scholarships.com](http://www.College-Scholarships.com)
- [www.FindTuition.com](http://www.FindTuition.com)
- [www.LatinoCollegeDollars.org](http://www.LatinoCollegeDollars.org)
- [www.ScholarshipExperts.com](http://www.ScholarshipExperts.com)
- [www.Scholarships.com](http://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 needs, make decisions, set goals, and deal effectively with personal obstacles with the help of counseling faculty. An individual appointment is

necessary for students who wish to meet with a counselor for academic planning, transcript evaluation, and career counseling. Confidentiality is paramount in the relationship between student and counselor.

Students should 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 DegreeWorks program.

### **Career Counseling**

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

### **Personal Counseling**

Personal counseling is available to students upon request; students also have access to psychological services within the Health and Wellness Center. Also, Imperial Valley College offers Counseling 120: College Success Skills (COUN 120), which includes interpersonal communication, self-awareness, stress management, behavior change, including referral to community resources.

### **Drop-in Counseling**

Walk-in counseling affords students with the opportunity to meet with a counselor on a “first-come, first-served” basis for answers to quick questions. Walk-in counseling sessions are available daily and limited to 30 minutes.

### **Online Counseling**

Students who are enrolled online or in-person have the opportunity to meet with a counselor in an on-line format. Online counseling sessions are available daily. All academic counseling services can be accessed in an online format.

## **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.

## **Disability Support Program and Services (DSPS)**

**Location: Mel Wendrick Access Center, Building 2900, (760) 355-6434**

The goal of the Disability Support Program and Services (DSPS) program is to ensure that students reach their full potential by acquiring equal access to all educational programs and services at Imperial Valley College. Reasonable and justified accommodations are conducted on an individual basis.

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 disability, intellectual disability, vision, hearing, speech, mental health, autism, ADHD, acquired brain injury, 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.

## **Educational Talent Search**

**Location: 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 assist 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 Guidance, Career and College Prep Workshops, Financial Aid Information and Assistance, College Admission Process Assistance, Tutorial Assistance, Parental involvement, Field trips 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/](http://www.imperial.edu/students/talent-search/).

## **Upward Bound**

**Location: Building 2400, (760) 355-6256**

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](http://www.imperial.edu/students/upward-bound).

## **Student Support Services TRiO Program (SSS TRiO)**

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

Student Support Services TRiO Program 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, priority registration, academic, career and personal counseling; computer

lab; cultural and educational field trips; and workshops. More information can be found at <https://www.imperial.edu/students/student-support-services/>

## **Extended Opportunity Program and Services (EOPS) and Cooperative Agencies Resources for Education (CARE)**

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

The Extended Opportunity Program and Services (EOPS) offers services such as priority registration, book grants, transportation assistance, individualized counseling, tutoring, and community referrals to eligible students. Our staff is available to assist and support students in navigating personal, psychological, academic, and/or career-related issues through empathy, cultural-competence, and a commitment to equity and social justice. Also, under the umbrella of EOPS is the CARE (Cooperative Agency Resources for Education) Program, designed to support qualified single parents receiving TANF/Cash Aid assistance. To learn more about EOPS or to apply to our Program, please visit our website. Looking forward to serving you!

Website: [www.imperial.edu/students/eops/](http://www.imperial.edu/students/eops/)

## **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 comprehensive supportive services to CalWORKs cash aid recipients. Services include college work-study, child care, transportation assistance, help with books and other costs related to the student's education pathway, and specialized counseling. CalWORKs student participants are eligible for priority registration.

CalWORKs students are encouraged to meet with the IVC CalWORKs counselor as soon as possible after completing an IVC application.

Website: [www.imperial.edu/students/calworks/counseling-services](http://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: <https://www.imperial.edu/students/military-and-veterans-success-center/>

## **VETERANS SERVICES**

**Veterans Services are located within the Military and Veteran Success Center, Building 600, Office 624 (760) 355-6141.**

### **Montgomery GI 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.acenet.edu/news-room/Pages/Military-Guide-Online.aspx](http://www.acenet.edu/news-room/Pages/Military-Guide-Online.aspx) 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.

### **Mitigating Circumstances**

If you have special circumstances that prevented you from being in good academic standing, mitigating circumstances could be awarded for one semester with proper documentation on a case by case basis. Please meet with the certifying official in the Military and Veteran Success Center, Office 624.

## 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.office.com](https://outlook.office.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.

If you need to look up your student email address, please login to WebSTAR to check and/or reach out to Admissions & Records for assistance.

**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 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://www.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](mailto:paige.lovitt@imperial.edu).

## Athletics

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

## 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.

## 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, notary public, loan signing training, 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>.

## 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 years of age) and the Infant/Toddler program (newborn- three years of age) is located in buildings 2200 and 2300. Service is available to families who meet the California Department of Education qualifications for enrollment. The centers are open Monday-Friday from 7:15-5:30. Breakfast, lunch and snack are provided through the California Adult and Child Food Program. Location: Buildings 2200 and 2300. Phone: **(760) 355-6528** or **(760) 355-6232**.

### **Exercise Science, Wellness, and Sports Program**

IVC strongly believes in the efficacy of health education for all. Classes are 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 using the IVC general education pattern, a student must show a minimum proficiency in the following:

- Successful completion of ES 100 plus one elective ES activity unit (3.0 units required).

Students in exercise science 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.

### **Noncredit Education**

Noncredit education is an alternative instructional delivery system for students not desiring college credits. It increases the access for students with diverse backgrounds. Noncredit instruction provides opportunities for students to improve their earning power, literacy skills, and access to higher education. Noncredit 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.

Noncredit courses are open to California residents over the age of 18 and are free. See the current Imperial Valley College Class Schedule for noncredit courses or go online at [www.imperial.edu](http://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.

### **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.

### **IVC Cares – SEA Basic Needs Center**

Food – Students experiencing food insecurity may access the Basic Needs Center for daily Grab’N’Go items (granola bars, mac’n’cheese, cup of noodles soup, tuna, fruit, etc.) and/or Dinner Program (take home food items: pastas, bread, cereal, etc.). In addition, students may also request emergency food assistance (on a first come, first served basis) there may be grocery cards available. There are also monthly campus community food distributions held on campus. Please email [equity@imperial.edu](mailto:equity@imperial.edu) for additional questions about these services.

Housing – IVC currently has 26 Tiny Home Units available for students that are experiencing homelessness and is accepting students for an active waitlist. In addition, through a student equity request form students may be able to access additional housing resources and assistance. Please email [housing@imperial.edu](mailto:housing@imperial.edu) for additional assistance.

Hygiene Supplies – Students may access hygiene supplies (shampoo, soap, towels, feminine hygiene products, tooth brushes, etc.) through the basic needs center, email [equity@imperial.edu](mailto:equity@imperial.edu) for assistance.

Books/School Supplies – Students may request assistance with books (lending library) or school supplies (pens, pencils, notebooks, calculators, etc.) by completing an equity request form, email [equity@imperial.edu](mailto:equity@imperial.edu) for assistance. This service is on a first come first served basis.

Transportation – Students experiencing emergency barriers to transportation may request assistance to access bus passes and/or other forms of transportation assistance to attend classes, email [equity@imperial.edu](mailto:equity@imperial.edu) for assistance. This service is on a first come first served basis.

Laptops/WIFI Devices – Students that do not have access to the internet or a working laptop device may complete a technology request form to request a device, email [equity@imperial.edu](mailto:equity@imperial.edu) for assistance. This services is on a first come first served basis.

### **Puente**

Its mission is to increase the number of educationally disadvantaged students who enroll in four-year colleges and universities, earn college degrees and return to the community as mentors and leaders to future generations. The program is interdisciplinary in approach, with writing, counseling and mentoring components.

### **Restorative Justice Program**

The Restorative Justice Program (RJP) is committed to serving incarcerated and formerly incarcerated students by providing degree-granting programs in correctional facilities (Calipatria State Prison, Centinela State Prison & Imperial County Sheriff’s Office Jails) and on-campus support for students who have experienced the criminal justice system. The RJP follows a service model of bridging gaps for Imperial Valley College justice-impacted students to reach their educational and personal goals. This is a supportive and interactive program that provides assistance with the admissions application, academic counseling, tutoring referral, expungement information and other on/off campus referrals.

### **Resilient Scholars Program**

The Resilient Scholars Program provides assistance to students with experiences of foster care and/or homelessness ages 16-26.\* The program has personalized workshops, events, assistance with basic needs services and counseling. The program provides on-campus and off-campus support. For more information, please email [equity@imperial.edu](mailto:equity@imperial.edu)

## Student Health Services

### Student Health Fee

As an Imperial Valley College (IVC) student, you pay a Student Health Fee (SHF) that entitles you to a variety of Health Services. The Student Health Fee allows students to receive health services and mental health services on campus. It also covers for one reduced fee visit at the Pioneers Memorial Healthcare District (PMHD) off-campus locations. This fee is not linked to any health insurance. It is a required fee whether students choose to use or not to use the IVC Student Health Services. The California College Promise Grant (CCPG) fee waiver will not cover this fee. Students receiving the CCPG shall pay for the Student Health 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.

### Health Services

Pioneers Memorial Healthcare District (PMHD) is the current provider for our basic health services, such as first aid and care for minor illnesses. These services also include health screenings, health promotion, and flu vaccinations. Services are provided by licensed health professionals.

### Mental Health Services

The IVC Mental Health Program provides short-term individual, couples, and family therapy. These services are provided by licensed clinicians and associate registered professionals. Services are confidential, supportive and culturally sensitive. Additional services include support groups, crisis intervention, case management and linkage to community resources.

### Accessing the Student Health Center

We encourage all students to access our health services by appointment to ensure appropriate health and safety standards. For more information and to schedule an appointment, please contact the Student Health Center (SHC) Front Desk at (760) 355-6310 or [shcfrontdesk@imperial.edu](mailto:shcfrontdesk@imperial.edu). **Services are not available when IVC is not in session.**

Students seeking access to health services on-campus or off-campus must: 1) bring a current IVC Identification Card and an additional legal I.D. Card, 2) Proof of current WebSTAR class schedule, and 3) inform the healthcare staff you are an IVC student.

All students are strongly encouraged to carry outside insurance coverage for situations or issues not covered by the IVC Student Health Center. Students needing additional, non-covered services can visit the following locations:

#### Campus Service Location

##### Student Health Center (SHC on campus)

380 East Aten Road, Building 1500, Library Room 1536  
Imperial, CA 92251 (760) 355-6310

#### Off-Campus Service Locations

Each enrolled student is also entitled to one minor sick visit per semester/term at any of the following locations  
subject to a reduced fee of only \$35.00.

##### Pioneers Memorial Hospital

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

### **Calexico Health Center**

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

### **Pioneers Health Center**

751 W. Legion Rd., Ste. 103, Brawley, CA 92227  
(760) 351-4400

### **Women's Health at Pioneers Health Center**

751 W. Legion Rd., Ste. 201, Brawley, CA 92227  
(760) 351-3700

*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.

### **IN CASE OF A PSYCHOLOGICAL EMERGENCY**

If you are experiencing a psychological crisis or emergency, please call:  
Imperial County Crisis Hotline (24/7) at 1-800-817-5292 or 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.

## **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 educational, cultural and informational services to students, faculty, staff, and the Imperial Valley community. A wealth of information can be found using our reference resources.

The Spencer Library has a collection containing over 50,000 books, The Library subscribes to over 45,000 online periodicals and newspapers, 30 print periodicals (plus 170 periodicals housed on site), 31 online Web-based databases and more than 20,000 ebooks. The microfilm collection contains historical runs of the Imperial Valley Press and the New York Times. The Library houses over 1,200 items in the Special Collections, several hundred DVDs and musical CDs.

### **Library Computers**

Many 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. Additionally, students can borrow tablets and laptops for use within the library. All computer facilities in the library are for education and research purposes. 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 computer workstations. 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 (SDICCLRC), 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.

## Reference Desk and Individual Student Services

Librarians utilize the Framework for Information Literacy developed by the Association of College and Research Libraries to provide information literacy services to students. The approach is similar to the individual instruction an instructor provides to a student who needs help with understanding and/or analyzing information. Librarians provide services for instructors and administrators as well, in developing information literacy within courses and programs.

## Library Policies

Spencer Library policies, services, and hours are described in detail on the library page at:

<https://www.imperial.edu/library-department>.

## 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.
  - 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?
  - 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.
  - Understand different types of sources and formats, and how to use them.
  - 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.
  - Determine the audience's needs and the best presentation format; know the standards and criteria for presenting information in the relevant subject/field/discipline.
  - 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.

## **Tutoring Centers for Students**

### **Learning Services (Tutoring) Center**

Learning Services includes the Study Skills Center and what was formerly the Reading/ Writing/ Language Lab and Math Lab in the 2600 building (services now located in the Spencer Library). All Learning Services are now together in the Spencer Library and are open to Imperial Valley College students and faculty.

The Study Skills Center (SSC) provides comprehensive learning assistance programs through tutoring (face-to-face and online) programs, workshops, and test proctoring. Services are available during the library's hours of operation (8:00 am - 8:00 pm M-Th, 8:00 am - 5:00 pm F) and on Saturdays 8:00 am - noon. The Study Skills Center 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 SSC provides individual and group tutoring, ESL conversation classes, individual and group study rooms, study skills workshops and more. Tutoring is provided by appointment and on a "walk-in" basis (also virtually). The tutors are students who have previously excelled in their own coursework and have the recommendation of their instructors. For the Study Skills Center Virtual Helpdesk: <https://www.imperial.edu/student-support/study-skills-center/>

### **Study Skills Center (Tutoring) Services, Pauline Benoit Rice IVC Language Lab, Jean Raulston Reading/Writing Lab, and the Math Lab:**

The Pauline Benoit Rice Language Lab, Jean Raulston Reading/Writing Lab, and Math Lab are integrating with the Study Skills Center at the Library beginning Fall 2021 (formerly located in the 2600 building). Services previously offered at these individual centers will transition into the Study Skills Center located inside Spencer Library and Media Center. The integration of these centers will help provide a seamless, full-service experience for students.

This Page Intentionally Left Blank



# **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 updated policy AP 3435.

For more information, please refer to the Title IX Website [www.imperial.edu/about/title-ix-coordinator-information/](http://www.imperial.edu/about/title-ix-coordinator-information/), or

California Department of Fair Employment and Housing Website, [www.dfeh.ca.gov](http://www.dfeh.ca.gov), or the U.S. Equal Employment Opportunity Commission Website, [www.eeoc.gov](http://www.eeoc.gov).

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

The coordinator for Imperial Valley College's compliance with Section 504 of the Rehabilitation Act of 1973 is the Vice President of Student Services, 380 East Aten Road, Imperial, CA 92251, (760) 355-6472, TTY (760) 355-4174. The Title IX officers for Imperial Valley College are the Vice President for Student Services & Equity, (760) 355-6472, the Chief of Human Resources, (760) 355-6207, and the Dean of Student Affairs and Enrollment Management (760) 355-6457, 380 East Aten Road, Imperial, CA 92251. For additional information visit <https://www.imperial.edu/about/title-ix-coordinator-information/>

## **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 business 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 Admissions and Records Office to correct or remove information recorded in their student record which they allege to be: (1) inaccurate; (2) an unsubstantiated personal conclusion or inference; (3) a conclusion or inference outside 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 Director of Admissions and Records, or his/her 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 Director of Admissions and Records, or their designee, shall then sustain or deny the allegations.

If any or all allegations are sustained, the Director of Admissions and Records, or their 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 Student Affairs within 30 calendar days of the denial.

Within 30 days of the receipt of an appeal, Student Affairs shall, in a meeting 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). A student may appeal a denial with the Board of Trustees.

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 Director of Admissions and Records and Student Affairs, 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 Student Privacy Policy Office (SPPO), U.S. Department of Education, 400 Maryland Avenue, SW, Washington, DC 20202; 1-800-872-5327.

### **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 Director of Admissions and Records 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.

## **Catalog Rights**

Graduation requirements are listed in the catalog. Each catalog covers an academic year that reflects enrollments beginning with the fall term and includes subsequent winter, spring and summer terms. Having "catalog rights" means students are held to the graduation requirements listed in the catalog at the time enrollment begins with credit courses. Students may choose to use catalog rights for any subsequent year of continuous enrollment.

## **Continuous Enrollment**

Continuous enrollment is defined as attendance in at least one term (Fall, Winter, Spring or Summer) within an academic year. Attendance is required through the third week of instruction for semester length classes or twenty percent (20%) of summer or winter terms.

## **Academic Year**

The academic year at Imperial Valley College begins with the Fall term and continues through Winter, Spring and Summer terms.

## **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 course load 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 meet with a counselor to file a petition for "Overload" form.

Petitions are available in the Hector J. Lopez Student Services Center, Building 100, or you may click on the following link: <https://www.imperial.edu/students/counseling/forms/>. Petitions must be submitted to the Admissions and Records Office during open enrollment.

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 may drop students who fail to attend the first meeting of any class for which they have officially enrolled. Instructors may also drop a student from a class for excessive absences. Please refer to course syllabus. 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 statute 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, the student 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.

### **Unit of Credit**

A unit of credit is approximately one hour of lecture/discussion plus two hours of study per week, two hours of activity laboratory plus one hour of study per week, or three hours of laboratory per week carried through the term. 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.

## 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 <i>(Formerly CR prior to Fall Semester, 2009)</i>	
NP	No Pass (less than satisfactory - D or F) Not included in GPA <i>(Formerly NC prior to Fall Semester, 2009)</i>	

### 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

- EW Excused Withdrawal
- I Incomplete
- IP In Progress
- W Withdrawal
- MW Military Withdrawal
- RD Report Delayed *(Tentative Fall 2022)*

### 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 students' 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% 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 owed, will be made for the term in which military withdrawal occurs.

**EW** Excused Withdrawal occurs when a student is permitted to withdraw from a course due to specific events beyond the control of the student affecting his or her ability to complete a course and may include a job transfer outside the geographical region, an illness in the family where the student is the primary caregiver, when the student who is incarcerated in the California state prison or county jail is released from custody or involuntarily transferred before the end of the term, when the student is the subject of an immigration action, or other extenuating circumstances as described in §55024 (a)(2) making course completion impracticable. In the case of an incarcerated student, an excused withdrawal cannot be applied if the failure to complete the course(s) was the result of a student's

behavioral violation or if the student requested and was granted a mid-semester transfer. Upon verification of these conditions and consistent with the district's required documentation substantiating the condition, an excused withdrawal symbol may be assigned at any time after the period established by the governing board during which no notation is made for withdrawals. The withdrawal symbol so assigned shall be an "EW."

Excused withdrawal shall not be counted in progress probation and dismissal calculations.

Excused withdrawal shall not be counted toward the permitted number of withdrawals or counted as an enrollment attempt.

*\*\*\*For the Spring 2020 semester only, withdrawals due to extenuating circumstances that are related to COVID-19 do not require a petition or additional documentation. A student has a maximum of 3 years for an EW to be considered.*

**RD** Report Delayed: The "RD" symbol may be assigned by the Office of Admissions & Records only. It is to be used when there is a delay in reporting the grade of a student due to circumstances beyond the control of the student. It is temporary. This temporary symbol shall not be used in calculating grade point averages and shall be replaced by a permanent symbol as soon as possible. (Tentative Fall 2022)

## Scholastic Honors

### Graduation Honors

Imperial Valley College recognizes graduates in all terms who demonstrate scholastic excellence. Graduation honors is based on the grade point average (GPA). Graduation honors will be noted on the transcript. For students earning AA and/or AS degrees, the GPA calculation will include all degree applicable coursework from all colleges attended. For students earning AA-T and AS-T degrees, the GPA calculation will include all CSU transferable coursework from all colleges attended. Only courses indicated as excluded by the sending institution may be excluded from this calculation. The grade point average designation for graduation honors are as follows:

With Honors: 3.0 – 3.49

With Distinction: 3.5 – 4.0

### Semester Honors

Each semester Imperial Valley College recognizes the academic achievement of students who have completed 12 or more graded units (Pass/No Pass courses are not included) demonstrating scholastic excellence. Semester honor roll achievements will be noted on the transcript. The grade point average (GPA) required for academic excellence to be recognized in a semester are as follows:

Dean's List: 3.0 – 3.49

President's Honor List: 3.5 – 4.0

## Credit For Prior Learning (CPL) and Transfer Credit

Credit for Prior Learning is a process allowing colleges to award course credit for validated college level skills and knowledge gained outside of a college classroom. Students' knowledge and skills might be gained through experiences such as: military training, industry training, state/federal government training, apprenticeships, internships, work-based learning, other industry-based experiential learning, or validated volunteer and civic activities (e.g. Peace Corps). The CPL mechanisms for earning credit for such experience is as follows:

- CPL – Credit for Military Training
- CPL – Credit for Industry Recognized Credentials
- CPL – Student Created Portfolio Assessment
- CPL – Credit by Exam



CPL does not include knowledge and skills already assessed and awarded credit through formal education at regionally accredited in-state and out-of-state institutions. If a regionally accredited transcript is available, then CPL is not applicable.

Students interested in Credit for Prior Learning should first seek guidance from the academic department or a counselor to determine if their preparation is appropriate for CPL and corresponds to an IVC approved CPL course. To pursue CPL credit, a student must be enrolled at the college, be in good standing and have a comprehensive education plan in place. The course credit requested must be for a CPL approved, active IVC course and applicable to the education plan. Successfully completed CPL credits will be transcribed to the students' transcript in the semester earned with the CPL method noted. CPL credit requests are made via petition which can be accessed on the [IVC Admissions and Records Forms](#) page on the IVC website.

Not all courses are available for CPL credit; see a counselor. At this time, CPL is not advised for courses used to satisfy UC, ADT or University major prep requirements. Not all institutions honor CPL credits. Pass along will be at the discretion of the receiving institution. There is a maximum of 16 units awarded through Military Service Credit that can be applied toward the associate degree. There is a maximum of 15 units awarded through CPL – Portfolio, Credit by Exam and Industry Recognized Credentials that can be applied toward the associate degree. CPL units do not apply toward the residency requirement.

### **CPL - Credit for Military Service**

Students who complete at least 180 days of active duty including basic training may be granted a maximum of 16.0 units for military service including four units for HE 100 (2.0 units) and ES 110 (2.0 units). Of the units granted for HE 100 and ES 110, the California State University system will grant 3.0 units of credit in Area E of the California State University General Education (CSU GE-B) pattern. To earn the IVC course credit for HE 100 and ES 110 and CSU GE-B Area E, students must provide a copy of the DD 214 and work with the Veterans Counselors to process the course credit.

After the awarding of the 4.0 units for basic training, 12.0 units may be awarded for work completed successfully in military service schools as recommended by the American Council of Education in the Guide to the Evaluation of Educational Experiences in the Armed Services and in accordance with IVC CPL policy. In order to obtain credit for military service, students must provide an official copy of the Joint Services transcripts. Students should use the [CPL – Credit for Military Training Petition](#) to request credit. Students should consult the department or a counselor to determine IVC course eligibility for Military Service credit.

Students with passing scores on any Defense Language Proficiency Test (DLPT) will earn 3.0 units of credit in Area C2 on the CSU GE-B pattern. IVC will honor the 3.0 units of credit in area C of the IVC General Education pattern. The 3.0 units awarded for DLPT credit are included as part of the 12.0 units that may be awarded for military service schools. The following documents will be accepted to award DLPT GE credit:

- Official Defense Language Institute Foreign Language (DLIFLC) Transcripts
- Official Joint Services Transcripts (JST)
- Defense Manpower Data Center (DMDC) DLPT Examinee Results
- DA Form 330 Language Proficiency Questionnaire

Military credit granted by IVC may differ from credit granted by a transfer institution.

### **CPL - Industry Recognized Credentials**

Students who have earned industry recognized credentials through training completed in work-based learning may be eligible for college credit. Students should seek guidance from the academic department or a counselor to determine if their preparation is appropriate for CPL and corresponds to

an IVC approved CPL course. Students seeking credit through the evaluation of an industry recognized credential must complete the [CPL – Industry Recognized Credential Evaluation petition](#) available online at the [IVC Admissions and Records Forms](#) web page and attach a copy of the credential to be evaluated.

### **CPL - Student-Created Portfolio Assessment**

Students with evidence of work-based learning obtained from validated volunteer and civic activities, state/federal government training, apprenticeships, internships or other industry-based experiential learning may seek credit for prior learning through portfolio assessment. Students interested in Credit for Prior Learning (CPL) using a student-created portfolio may seek course credit by completing the [CPL – Portfolio Assessment Petition](#) and attaching a copy of the portfolio to be assessed. This petition can be found online at the [IVC Admissions and Records Forms](#) web page. Prior to completing the CPL-Portfolio Assessment petition, students should seek guidance from the academic department or a counselor to determine if the course is appropriate for a portfolio assessment.

### **CPL - Credit by Exam**

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 department determines which courses are eligible for the “credit by examination” option. Lead discipline area faculty are responsible for developing and administering the 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, 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” may access the [CPL – Credit by Exam Petition](#) online at the [IVC Admissions and Records Forms](#) web page. Students should seek guidance from the academic department or a counselor to determine if their preparation is appropriate for CPL Credit by Exam and that the request corresponds to an IVC approved CPL course. 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 exam fees are non-refundable.

### **Credit for Prior Learning – External Examinations**

In addition to validating college level skills gained outside the classroom, Credit for Prior Learning also incorporates credit policies for External Examinations taken for college credit as follows:

- Advanced Placement
- International Baccalaureate
- College Level Examination Program

### **CPL – Advanced Placement (AP)**

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 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 at each university, there is no guarantee transfer institutions will grant credit in a manner identical to Imperial Valley College. Transfer students must consult the University catalog to determine how AP exam credit will be awarded.

### **CPL - College Level Examination Program (CLEP)**

Imperial Valley College does not offer course awards for CLEP examinations. Instead, when the academic department has deemed appropriate, an overall unit award and or a general education award may be applied toward the associate degree. The CSU system honors CLEP credit in accordance with CSU General Education and Breadth policy. The UC system does not honor CLEP nor is it applicable on the IGETC general education pattern.

In order to earn college credit for CLEP exams, students must provide official transcripts to the IVC Admissions and Records Office. Students who have earned credit from a CLEP exam should not take a comparable college course because transfer credit will not be granted for both. Credit may not be awarded for exams which duplicate credit for the same content earned through other means, such as AP or IB.

### **CPL - International Baccalaureate (IB)**

Imperial Valley College does not offer course awards for IB examinations. Instead, when the academic department has deemed appropriate an overall unit award and or a general education award may be applied toward the associate degree. Both the CSU and UC systems honor CLEP credit, and it is applicable on both the CSU GEB and IGETC general education patterns. University policy on IB course awards may differ from the college award. Transfer students should consult the IB credit policy of the desired transfer institution for additional information.

Only Higher Level (HL) exams are considered for credit; credit is not awarded for Standard Level (SL). Students who have earned credit from an IB exam should not take a comparable college course because transfer credit will not be granted for both. Credit may not be awarded for exams which duplicate credit for the same content earned through other means, such as CLEP. To earn IB Credit students must have official IB transcripts on file with the IVC Admissions and Records Office.

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

## **Transfer Credit**

Imperial Valley College grants credit for lower division units earned at regionally accredited institutions. All lower division courses attempted at accredited institutions attended are part of the student's unit and GPA calculation. Only courses excluded by the sending institution may be excluded from a student's GPA and unit count. The evaluative symbols used by the sending institution are honored in the GPA and unit calculation. Duplicate courses are part of the academic record and are included in the GPA calculation, however the duplicate credit is excluded from the unit total. Official transcripts from all institutions attended must be on file and evaluated by the Admissions and Records Office before a student may receive a degree, certificate or general education certification from Imperial Valley College.

To be considered for transfer credit, students must provide official transcripts to the IVC Admissions and Records Office from each institution where courses were taken. Official transcripts may be provided electronically, directly mailed to the institution or in person by presenting 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 enrollment. An official evaluation to determine the applicability of courses to IVC degree or certificate requirements is essential for effective advisement.

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

## Credit for Upper Division Course Work

Transfer credit for upper division courses completed at a four-year college or university will not be granted unless an equivalent course is offered at IVC. To be considered, students must complete a student 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.

## Advanced Placement Chart

### 2022-23 IMPERIAL VALLEY COLLEGE ADVANCED PLACEMENT 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 & 5C 4 semester units	8 quarter/5.3 semester units
Calculus AB	Score of 3 - MATH 190 5 semester units Score of 4 or 5 - MATH 192 4 semester units	Language and Rationality	Area B4 3 semester units	3.0 <sup>1</sup>	Area 2A 3 semester units	4 quarter/2.6 semester units <sup>2</sup>
Calculus BC	Score of 3 - MATH 192 4 semester units Score of 4 or 5 - MATH 192 & MATH 194 8 semester units	Language and Rationality	Area B4 3 semester units	6.0 <sup>1</sup>	Area 2A 3 semester units	8 quarter/5.3 semester units <sup>2</sup>
Calculus BC/AB Subscore	MATH 192 4 semester units	Language and Rationality	Area B4 3 semester units	3.0 <sup>1</sup>	Area 2A 3 semester units	8 quarter/5.3 semester units <sup>2</sup>
<b>AP CALCULUS EXAM LIMITATIONS</b>				<sup>1</sup> Only one exam in CS or Calculus may be used		<sup>2</sup> 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 & 5C 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/2.6 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 <sup>1</sup>	N/A	2 quarter/1.3 semester units
Computer Science Principles	No Course Equivalency 3 semester units	N/A	Area B4 3 semester units	6.0	N/A	8 quarter/5.3 semester units
<b>AP CALCULUS AND COMPUTER SCIENCE EXAM LIMITATIONS</b>				<sup>1</sup> Only one exam in CS or Calculus 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 <sup>3</sup>
English Literature & Composition	ENGL 110 and 102 *7 semester units	Language and Rationality and Humanities	Area A2 and C2 3 semester units	6.0	Area 1A or 3B 3 semester units	8 quarter/5.3 semester units <sup>3</sup>
<b>AP ENGLISH EXAM LIMITATIONS</b>	*Maximum 7 semester units					<sup>3</sup> 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 & 5C 3 semester units	4 quarter/2.6 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/2.6 semester units

## 2022-23 IMPERIAL VALLEY COLLEGE ADVANCED PLACEMENT 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
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/2.6 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/2.6 semester units
Physics 1	No Course Equivalency 4 semester units	Natural Science	Area B1 and B3 4 semester units <sup>4</sup>	4.0 <sup>5</sup>	Area 5A & 5C 4 semester units	8 quarter/5.3 semester units <sup>6</sup>
Physics 2	No Course Equivalency 4 semester units	Natural Science	Area B1 and B3 4 semester units <sup>4</sup>	4.0 <sup>5</sup>	Area 5A & 5C 4 semester units	8 quarter/5.3 semester units <sup>6</sup>
Physics C: Mechanics	PHYS 200 4 semester units	Natural Science	Area B1 and B3 4 semester units <sup>4</sup>	4.0 <sup>5</sup>	Area 5A & 5C 4 semester units	4 quarter/2.6 semester units <sup>6</sup>
Physics C: Electricity & Magnetism	PHYS 202 4 semester units	Natural Science	Area B1 and B3 4 semester units <sup>4</sup>	4.0 <sup>5</sup>	Area 5A & 5C 4 semester units	4 quarter/2.6 semester units <sup>6</sup>
<b>AP PHYSICS EXAM LIMITATIONS</b>			<sup>4</sup> Maximum of 4 semester units	<sup>5</sup> Maximum of 6 semester units		<sup>6</sup> Maximum credit 8 quarter/5.3 semester
Psychology	PSY 101 3 semester units	Social/Behavioral Sciences	Area D9 3 semester units	3.0	Area 4I 3 semester units	4 quarter/2.6 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 and Rationality	Area B4 3 semester units	3.0	Area 2A 3 semester units	4 quarter/2.6 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 <sup>7</sup>
Studio Art 3D Design	No Course Equivalency 3 semester units	N/A	N/A	3.0	N/A	8 quarter/5.3 semester units <sup>7</sup>
Studio Art Drawing	No Course Equivalency 3 semester units	N/A	N/A	3.0	N/A	8 quarter/5.3 semester units <sup>7</sup>
<b>STUDIO ART EXAM LIMITATIONS</b>						<sup>7</sup> Maximum credit
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/2.6 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	HIST 101 3 semester units	Social/Behavioral Sciences or Humanities	Area C2 or D6 3 semester units	3.0	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) Chart

Imperial Valley College (IVC) may award credit for CLEP exams with a minimum score of 50. CLEP credit can be used toward Associate degree general education and unit requirements and CSU admission and general education certification requirements.

Official CLEP transcripts must be sent directly from the College Board to the IVC Admission and Records office in order to receive credit. IVC will grant a maximum of 15 units of credit toward the IVC associate degree and/or certificate for any combination of CLEP exams completed with an appropriate score. CLEP credit will not be counted toward the 12 unit residency requirement or in any area in which the student has earned college credit prior to the CLEP exam. IVC does not accept CLEP as a waiver of English or Mathematics assessment. Students are advised to meet with a counselor regarding the use of CLEP in the student education plan.

Students intending to transfer should be aware that CLEP credit may or may not be accepted by other colleges and universities; refer to the university catalog for CLEP credit policy. The University of California currently does not accept CLEP credit therefore it will not be used for Intersegmental General Education Transfer Curriculum (IGETC) certification.

CLEP website: <https://clep.collegeboard.org/>

CLEP EXAM	PASSING SCORE #	IVC GE AREA SEMESTER UNITS AWARDED	IVC GE UNITS AWARDED	IVC ASSOCIATE DEGREE SEMESTER UNITS AWARDED	*CSU MINIMUM ADMISSION SEMESTER UNITS AWARDED	**CSU GEB CERTIFICATION AREA	CSU SEMESTER UNITS TOWARD GE BREADTH CERTIFICATION
American Government	50	Area D	3 Units	3 Units	3 Units	Area D8	3 Units
American Literature	50	Area C	3 Units	3 Units	3 Units	Area C2	3 Units
Analyzing & Interpreting Literature	50	Area C	3 Units	3 Units	3 Units	Area C2	3 Units
Biology	50	Area B	3 Units	3 Units	3 Units	Area B2	3 Units – No Lab
Calculus	50	Area A2	3 Units	3 Units	3 Units	Area B4	3 Units
Chemistry	50	Area B	3 Units	3 Units	3 Units	Area B1	3 Units - No Lab
College Algebra	50	Area A2	3 Units	3 Units	3 Units	Area B4	3 Units
College Algebra: Trigonometry	50	Area A2	3 Units	3 Units	3 Units	Area B4	3 Units
College Composition	50	N/A	0 Units	0 Units	0 Units	N/A	0 Units
College Composition Modular	50	N/A	0 Units	0 Units	0 Units	N/A	0 Units
College Mathematics	50	N/A	0 Units	0 Units	0 Units	N/A	0 Units
English Composition: No Essay	50	N/A	0 Units	0 Units	0 Units	N/A	0 Units
English Composition: Essay	50	N/A	0 Units	0 Units	0 Units	N/A	0 Units
Financial Accounting	50	N/A	0 Units	3 Units	3 Units	N/A	0 Units
+French Level I <sup>1</sup>	50	N/A	0 Units	6 Units	6 Units	N/A	0 Units
+French Level II <sup>2</sup>	59	Area C	3 Units	9 Units	9 Units	Area C2	3 Units
Freshman College Composition	50	N/A	0 Units	0 Units	0 Units	N/A	0 Units
+German Level I <sup>1</sup>	50	N/A	0 Units	6 Units	6 Units	N/A	0 Units
+German Level II <sup>2</sup>	60	Area C	3 Units	9 Units	9 Units	Area C2	3 Units
History, United States I	50	N/A	0 Units	0 Units	3 Units	Areas D6 and US-1	3 Units
History, United States II	50	N/A	0 Units	0 Units	3 Units	Areas D6 and US-1	3 Units
Human Growth and Development	50	Area D	3 Units	3 Units	3 Units	Area E	3 Units
Humanities	50	Area C	3 Units	3 Units	3 Units	Area C2	3 Units
Information Systems and Computer Applications	50	Area A2	3 Units	3 Units	3 Units	N/A	0 Units
Introduction to Educational Psychology	50	N/A	0 Units	3 Units	3 Units	N/A	0 Units
Introductory Business Law	50	N/A	0 Units	3 Units	3 Units	N/A	0 Units
Introductory Psychology	50	Area D	3 Units	3 Units	3 Units	Area D9	3 Units
Introductory Sociology	50	Area D	3 Units	3 Units	3 Units	Area D0	3 Units
Natural Sciences	50	Area B	3 Units	3 Units	3 Units	Area B1 or B2 - No Lab	3 Units
Pre-calculus	50	Area A2	3 Units	3 Units	3 Units	Area B4	3 Units
Principles of Accounting	50	N/A	0 Units	3 Units	3 Units	N/A	0 Units
Principles of Macroeconomics	50	Area D	3 Units	3 Units	3 Units	Area D2	3 Units
Principles of Management	50	N/A	0 Units	3 Units	3 Units	N/A	0 Units
Principles of Marketing	50	N/A	0 Units	3 Units	3 Units	N/A	0 Units
Principles of Microeconomics	50	Area D	3 Units	3 Units	3 Units	Area D2	3 Units
Social Sciences and History	50	N/A	0 Units	0 Units	0 Units	N/A	0 Units
+Spanish Level I <sup>1</sup>	50	N/A	0 Units	6 Units	6 Units	N/A	0 Units
+Spanish Level II <sup>2</sup>	63	Area C	3 Units	9 Units	9 Units	Area C2	3 Units
+Spanish with Writing I	50	N/A	0 Units	6 Units	6 Units	N/A	0 Units
+Spanish with Writing II	63	Area C	3 Units	9 Units	9 Units	Area C2	3 Units
Western Civilization I	50	N/A	0 Units	0 Units	3 Units	Area C2 or D6	3 Units
Western Civilization II	50	N/A	0 Units	0 Units	3 Units	Area D6	3 Units

\* These units count toward eligibility for CSU admission. The units may not all apply towards Associate Degrees for Transfer (AD-T) or the baccalaureate degree. The units may not all apply toward certification of the corresponding GE-Breadth area. See Executive Orders 1036 and 1100 for details.

\*\* Areas of GE Breadth (A1 through E) are defined in EO 1100 Areas of American Institutions (US – 1 through US – 3) are set forth in sections IA and IB of EO 1061, and in assist.org.

+ If a student passes more than one CLEP exam in the same language other than English, 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 6 units of baccalaureate credit; the higher score listed for each test is considered “Level II” and earns additional units of credit and placement in Area C2 of CSU GEB as noted.

## 2022-23 IMPERIAL VALLEY COLLEGE (IVC) INTERNATIONAL BACCALAUREATE (IB) CREDIT CHART

International Baccalaureate	IVC			CSU GEB			IGETC		
	Passing Score	IVC GE Area & Semester Units Awarded	IVC Total DA Semester Units Awarded	Passing Score	*CSUGEB Area & Semester Units Awarded	CSU Semester Units Earned Toward Transfer	Passing Score	IGETC Area & Semester Units Awarded	UC Semester Units Earned Toward Transfer
IB Biology HL	5	Area B 3 units	6 units	5	Area B2 3 units	6 units	5	Area 5B 3 units	5.3 units
IB Chemistry HL	5	Area B 3 units	6 units	5	Area B1 3 units	6 units	5	Area 5A 3 units	5.3 units
IB Economics HL	5	Area D 3 units	6 units	5	Area D 3 units	6 units	5	Area 4 3 units	5.3 units
IB Geography HL	5	Area D 3 units	6 units	5	Area D 3 units	6 units	5	Area 4 3 units	5.3 units
IB History HL (any region)	5	Area C or D 3 units	6 units	5	+Area C2 or D 3 units	6 units	5	+Area 3B or 4 3 units	5.3 units
IB Language A Literature HL	4	Area C 3 units	6 units	4	Area C2 3 units	6 units	5	~Area 3B 3 units	5.3 units
IB Language A Language and Literature HL (any language)	4	Area C 3 units	6 units	4	Area C2 3 units	6 units	5	~Area 3B 3 units	5.3 units
IB Language B HL (any language)	4	NA	6 units	4	NA	6 units	5	Area 6A	5.3 units
IB Mathematics HL	4	Area A2 3 units Math Competency	6 units	4	Area B4 3 units	6 units	5	Area 2A 3 units	5.3 units
IB Physics HL	5	Area B 3 units	6 units	5	Area B1 3 units	6 units	5	Area 5A 3 units	5.3 units
IB Psychology HL	5	Area D 3 units	3 units	5	Area D 3 units	3 units	5	Area 4 3 units	5.3 units
IB Theater HL	4	Area C 3 units	6 units	4	Area C1 3 units	6 units	5	Area 3A 3 units	5.3 units

\*CSU GEB areas are defined in EO 1100 (Revised August 23, 2017). Areas of American Institutions (US-1 through US-3) are set forth in Sections 1A and 1B of EO 1061 and at assist.org.  
+IB exam may be used in either area regardless of where the certifying CCC's discipline is located.  
~Students who pass either of the Language A HL exams in a language other than English with a score of 5 or higher will also receive credit for IGETC Area 6A.

- Only Higher Level (HL) exams are considered for credit; credit is not awarded for Standard Level (SL).
- Students who have earned credit from an IB exam should not take a comparable college course because transfer credit will not be granted for both.
- Credit may not be awarded for exams which duplicate credit for the same content earned through other means, such as CLEP.
- Transfer students should consult the IB credit policy of the desired transfer institution for additional information.

## 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](http://www.ierf.org)

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

## 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, EW 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.

Regular attendance in all classes is required of all students. Please refer to the Course Syllabus to determine the drop guidelines set by the instructor for each class.

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 and eligibility to receive **CCPG (California College Promise Grant)** shall be lost after a student is on Academic or Lack-of-Progress Probation or any combination thereof for two consecutive terms as defined in Board Policy and Administrative Procedure 4250.

### **Types of Probation**

#### **Scholastic Probation**

Students who have attempted 12.0 or more units at Imperial Valley College (IVC) will be placed on academic probation if their cumulative grade point average is below 2.00. 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 for three consecutive semesters of enrollment, excluding Winter and Summer terms. Students who are dismissed will not be allowed to take classes the following semester.

### **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.

### **Reinstatement**

Students seeking reinstatement after Scholastic or Lack-of-Progress dismissal are required to meet with a Counselor to complete a Petition for Reinstatement along with the Corrective Plan of Action Form.

### **Appealing the Loss of Enrollment Priority or the Loss of the CCPG Fee Waiver.**

Students may appeal the Loss of Enrollment Priority or Loss of the CCPG Fee Waiver by petition. Students must attach a typed narrative of their situation along with a copy of a current Comprehensive Educational Plan (2 or more semesters). Students may schedule an appointment with their counselor to acquire the Comprehensive Educational Plan and additional guidance.

Petitions may be acted on by the Director of Admissions & Records or referred to the Admissions, Registration and Petitions Committee for consideration.

## **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/>

Questions should be directed to the Dean of Student Affairs and Enrollment Services

### **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.

The following conduct shall constitute good cause for discipline, including but not limited to the removal, suspension or expulsion of a student.

1. Causing, attempting to cause, or threatening to cause physical injury to another person.
2. Perpetrating, attempting, or threatening dating violence, domestic violence or stalking against another person.
3. Possession, sale or otherwise furnishing any firearm, knife, explosive or other dangerous object, including but not limited to any facsimile firearm, knife or explosive, unless in the case of possession of any object of this type, the student has obtained written permission to possess the item from a District employee which is concurred in by the college president.
4. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in California Health and Safety Code Sections 11053 et. seq., an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5.
5. Committing or attempting to cause damage to District property or to private property on campus.
6. Causing or attempting to commit robbery or extortion.
7. Stealing or attempting to steal District property or private property on campus, or knowingly receiving stolen District property or private property on campus.
8. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the college or the District.
9. Sexual assault or sexual exploitation regardless of the victim's affiliation with the district.
10. Committing sexual harassment as defined by law or by District policies and procedures.
11. Engaging in harassing or discriminatory behavior based on disability, gender, gender identity, gender expression, nationality, race or ethnicity, religion, sexual orientation, or any other status protected by law.
12. Engaging in intimidating conduct or bullying against another student through words or actions, including direct physical contact; verbal assaults, such as teasing or name-calling; social isolation or manipulation; and cyberbullying.
13. Willful misconduct that results in injury or death to a student or to District personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the District or on campus.
14. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, college personnel.
15. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty.
16. Dishonesty; forgery; altercation or misuse of District documents, records or identification; or knowingly furnishing false information to the District.
17. Unauthorized entry upon or use of District facilities.
18. Lewd, indecent or obscene conduct or expression on District owned or controlled property, or at District sponsored or supervised functions.
19. Engaging in expression which is obscene, libelous or slanderous, or which so incites students as to create a clear and present danger of the commission of unlawful acts on District premises, or the violation of lawful District regulations, or the substantial disruption of the orderly operation of the District.
20. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
21. Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any District policy or administrative procedure.
22. Failure to follow Covid 19 Health and Safety protocols, procedures, rules, and screening measures.

Students who engage in any of the above are subject to the procedures outlined in AP 5520 titled Student Discipline Procedures.

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 Students Rights and Grievances Policy

(AP 5530)

The purpose of this procedure is to provide a prompt and equitable means of resolving student Grievances.

**Grievance:** A claim by any Student who reasonably believes a college decision or action has adversely affected his/her/their status, rights or privileges as a student. A Grievance includes, but not be limited to, claims regarding:

- Refusal of instructor to confer with a student;
- Financial aid [unless the District's financial aid policy contains an appeal procedure];
- Course grades, to the extent permitted by Education Code Section 76224(a), which provides: "When grades are given for any course of instruction taught in a community college District, the grade given to each student shall be the grade determined by the instructor of the course and the determination of the student's grade by the instructor, in the absence of mistake, fraud, bad faith, or incompetency, shall be final." "Mistake" may include, but is not limited to errors made by an instructor in calculating a student's grade and clerical errors;
- The exercise of rights of free expression protected by state and federal constitutions and Education Code Section 76120.

A Grievance is not:

- Student disciplinary actions, which are covered under separate Board policies and Administrative Procedures.
- Police citations (i.e. "tickets"); complaints about citations must be directed to the County Courthouse in the same way as any traffic violation.

**Grievant** - A student who has filed a Grievance.

**Party** - The student or any persons claimed to have been responsible for the student's alleged Grievance, together with their representatives. "Party" shall not include the Grievance Hearing Committee or the College Grievance Officer.

**CEO** - The CEO or a designated representative of the CEO: Dean of Student Affairs, Enrollment Services & Campus Safety.

**Student** - A currently enrolled student, a person who has filed an application for admission to the college, or a former student. A Grievance by an applicant shall be limited to a complaint regarding denial of admission. Former students shall be limited to Grievances relating to course grades to the extent permitted by Education Code Section 76224 subdivision (a).

**Respondent** - Any person the Grievant claims to be responsible for the alleged Grievance.

**Day** - Unless otherwise provided, day shall mean a day during which the college is in session and regular classes are held, excluding Saturdays and Sundays.

**INFORMAL RESOLUTION** - Each student who has a grievance shall make a reasonable effort to resolve the matter on an informal basis prior to requesting a Grievance hearing, and shall attempt to solve the problem with the person with whom the student has the Grievance, that person's immediate supervisor, or the local college administration.

The student may discuss the problem with the individual or the individual's supervisor.

If a mutually satisfactory understanding has not been reached with the other person, the student may, within five (5) instructional days, present the Student Grievance to the immediate supervisor. Student Grievance form information may be found under the Formal Resolution section of this AP. Within (2) two days following receipt of a grievance, the immediate supervisor shall advise the student of his or her rights and responsibilities under these procedures, and assist the student, if necessary, in the preparation of the Grievance form. The supervisor must respond via verbal communication or email within ten (10) instructional days of the initiation of the grievance.

A grievance 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 grievance must be made prior to the end of the third Friday of the Fall semester.

If Grievance is About:	Contact:
<ul style="list-style-type: none"> <li>Classified Staff/ Managers/ Confidential</li> </ul>	<ul style="list-style-type: none"> <li>Immediate Supervisor/Chief Human Resources Office</li> </ul>
<ul style="list-style-type: none"> <li>Teaching &amp; Non-Teaching Faculty</li> </ul>	<ul style="list-style-type: none"> <li>Appropriate Dean</li> </ul>
<ul style="list-style-type: none"> <li>Department Chair</li> </ul>	<ul style="list-style-type: none"> <li>Appropriate Dean</li> </ul>
<ul style="list-style-type: none"> <li>Dean</li> </ul>	<ul style="list-style-type: none"> <li>Administrator</li> </ul>
<ul style="list-style-type: none"> <li>Administrator</li> </ul>	<ul style="list-style-type: none"> <li>Appropriate Vice President or CEO</li> </ul>
<ul style="list-style-type: none"> <li>Another Student</li> </ul>	<ul style="list-style-type: none"> <li>Dean of Student Affairs, Enrollment Services &amp; Campus Safety</li> </ul>

Informal meetings and discussion between persons directly involved in a Grievance are essential at the outset of a dispute and should be encouraged at all stages. An equitable solution should be sought before persons directly involved in the case have stated official or public positions that might tend to polarize the dispute and render a solution more difficult. At no time shall any of the persons directly or indirectly involved in the case use the fact of such informal discussion, the fact that a Grievance has been filed, or the character of the informal discussion for the purpose of strengthening the case for or against persons directly involved in the dispute or for any purpose other than the settlement of the Grievance.

The CEO shall appoint an employee who shall assist students in seeking resolution by informal means. This person shall be called the Grievance Officer. The Grievance Officer and the student may also seek the assistance of the Associated Student Organization in attempting to resolve a Grievance informally.

Any student who believes he/she/they has/have a Grievance shall file a Statement of Grievance with the Grievance Officer within [30] days of the incident on which the Grievance is based, or [30] days after the student learns of the basis for the Grievance, whichever is later. The Statement of Grievance must be filed whether or not the student has already initiated efforts at informal resolution, if the student wishes the Grievance to become official. Within two days following receipt of the Statement of Grievance Form, the Grievance Officer shall advise the student of his/her/their rights and responsibilities under these procedures, and assist the student, if necessary, in the final preparation of the Statement of Grievance form.

If at the end of (20) days (excluding weekends and holidays) days following the student's first meeting with the Grievance Officer, there is no informal resolution of the complaint which is satisfactory to the student, the student shall have the right to request a Grievance hearing.

**Grievance Hearing Committee:** The Dean of Student Affairs, Enrollment Services & Campus Safety shall at the beginning of each semester or summer session, establish a standing panel (available pool) of (18) members of the college community, including (6) students, (4) faculty members a, (4) college staff, and [(4)] administrators from which one or more Grievance Hearing Committees may be appointed. The panel will be established with the advice and assistance of the Associated Students Organization, College Council, and the Academic Senate, who shall each submit] names to the Dean of Student Affairs, Enrollment Services & Campus Safety for inclusion on the panel. A Grievance Hearing Committee shall be constituted in accordance with the following:

- It shall include (2) students, (1) faculty member, (1) college staff, and (1) college administrator selected from the panel described above.
- No person shall serve as a member of a Grievance Hearing Committee if that person has been personally involved in any matter giving rise to the Grievance, has made any statement on the matters at issue, or could otherwise not act in a neutral manner. Any Party to the Grievance may challenge for cause any member of the hearing committee prior to the beginning of the hearing by addressing a challenge to the Dean of Student Affairs, Enrollment Services & Campus Safety who shall determine whether cause for disqualification has been shown. If the Dean of Student Affairs, Enrollment Services & Campus Safety feels that sufficient ground for removal of a member of the committee has been presented, the Dean of Student Affairs, Enrollment Services & Campus Safety shall remove the challenged member or members and substitute a member or members from the panel described above. This determination is subject to appeal as defined below.
- The Grievance Officer shall sit with the Grievance Hearing Committee but shall not serve as a member nor vote. The Grievance Officer shall coordinate all scheduling of hearings, shall serve to assist all Parties and the Hearing Committee to facilitate a full, fair, and efficient resolution of the Grievance, and shall avoid an adversary role.

**FORMAL RESOLUTION**

If, within ten (10) days, the grievance is not resolved informally, or the student is not satisfied with the resolution recommended by the supervisor, or if the supervisor does not respond timely a student may submit a Student Grievance form to the Vice President for Academic Services regarding academic matters or Dean of Student Affairs, Enrollment Services & Campus Safety regarding non-academic matters.

The Vice President for Academic Services or the Dean of Student Affairs, Enrollment Services & Campus Safety will respond in writing to the grievance within ten (10) instructional days of receipt of the Grievance form.

Students’ Grievance forms are available from:

Dean of Student Affairs, Enrollment Services & Campus Safety	Student Affairs	(760) 355-6456
Director of Disabled Student Programs & Services	DSPS Office	(760) 355-6312
Chief Student Services Officer	Student Services & Equity	(760) 355-6106
Chief Human Resource Officer (staff)	Human Resources Office	(760) 355-6212

**REQUEST FOR GRIEVANCE HEARING** — Any request for a Grievance hearing shall be filed on a [Request for a Grievance Form](#) within ten (10) days after filing the Statement of Grievance as described above.

Within ten (10) days following receipt of the request for Grievance hearing, the Dean of Student Affairs, Enrollment Services & Campus Safety shall appoint a Grievance Hearing Committee as described above, and the Grievance Hearing Committee shall meet in private and without the Parties present to select a chair and to determine on the basis of the Statement of Grievance whether it presents sufficient grounds for a hearing.

The determination of whether the Grievance presents sufficient grounds for a hearing shall be based on the following:

- The statement contains facts which, if true, would constitute a Grievance under these procedures;
- The Grievant is a student as defined in these procedures, which include applicants and former students;
- The Grievant is personally and directly affected by the alleged Grievance;
- The Grievance was filed in a timely manner;
- The Grievance is not clearly frivolous, clearly without foundation, or clearly filed for purposes of harassment.

If the grievance does not meet each of the requirements, the Grievance Hearing Committee chair shall notify the student in writing of the rejection of the Request for a Grievance Hearing, together with the specific reasons for the rejection and the procedures for appeal. This notice will be provided within ten (10) days of the date the Grievance Hearing Committee makes its decision.

If the Request for Grievance Hearing satisfies each of the requirements, the Committee Chair shall schedule a Grievance hearing. The hearing will begin within twenty (20) days following the decision to grant a Grievance Hearing. All parties to the Grievance shall be given not less than five (5) days' notice of the date, time and place of the hearing.

**HEARING PROCEDURES** — The decision of the Grievance Hearing Committee chair shall be final on all matters relating to the conduct of the hearing unless there is a vote of a majority of the other members of the panel to the contrary.

The Grievance Officer will provide members of the Grievance Hearing Committee with a copy of the Grievance and any written response provided by the Respondent before the hearing begins.

Each Party to the Grievance may call witnesses and introduce oral and written testimony relevant to the issues of the matter.

Formal rules of evidence shall not apply. Any relevant evidence shall be admitted.

Unless the Grievance Hearing Committee determines to proceed otherwise, each Party to the Grievance shall be permitted to make an opening statement. Thereafter, the Grievant or Grievants shall make the first presentation, followed by the Respondent or Respondents. The Grievant or Grievants may present rebuttal evidence after the Respondent(s)' evidence. The burden shall be on the Grievant or Grievants to prove by substantial evidence that the facts alleged are true and that a Grievance has been established as specified above.

Each Party to the Grievance may represent himself/herself/themselves, and may also have the right to be represented by a person of his/her/their choice; except that a Party shall not be represented by an attorney unless, in the judgment of the Grievance Hearing Committee, complex legal issues are involved. If a Party wishes to be represented by an attorney, a request must be presented not less than five (5) days prior to the date of the hearing. If one Party is permitted to be represented by an attorney, any other Party shall have the right to be represented by an attorney. The hearing committee may also

request legal assistance through the CEO. Any legal advisor provided to the hearing committee may sit with it in an advisory capacity to provide legal counsel but shall not be a member of the panel nor vote with it.

Hearings shall be closed and confidential unless all parties request that it be open to the public. Any such request must be made no less than five (5) days prior to the date of the hearing.

In a closed hearing, witnesses shall not be present at the hearing when not testifying, unless all parties and the committee agree to the contrary.

The Grievance Officer will record the hearing by tape recording or stenographic recording, and this will be the only recording made. No witness who refuses to be recorded may be permitted to give testimony. In the event the recording is by tape recording, the Grievance Hearing Committee Chair shall, at the beginning of the hearing, ask each person present to identify themselves by name, and thereafter shall ask witnesses to identify themselves by name. The tape recording shall remain in the custody of the District, either at the college or the District office, at all times, unless released to a professional transcribing service. Any Party may request a copy of the tape recording.

All witnesses must testify under oath; the Grievance Hearing Committee Chair will administer the oath. The Grievance Hearing Committee will only admit written statements of witnesses under penalty of perjury if the witness is unavailable to testify. A witness who refuses to be tape recorded shall be considered to be unavailable.

Following the close of the hearing, the Hearing Committee shall prepare and send to the CEO a written decision. The decision shall include specific factual findings regarding the grievance, and shall include specific conclusions regarding whether a grievance has been established as defined above. The decision shall also include a specific recommendation regarding the relief to be afforded the grievant, if any. The decision shall be based only on the record of the hearing, and not on matter outside of that record. The record consists of the original grievance, any written response, and the oral and written evidence produced at the hearing.

Within (5) of days following the close of the hearing, the Grievance Hearing Committee shall prepare and send to the CEO a written decision. The decision shall include specific factual findings regarding the Grievance, and shall include specific conclusions regarding whether the hearing established a Grievance as defined above. The decision shall also include a specific recommendation regarding the relief for the Grievant, if any. The Grievance Hearing Committee will base its decision only on the record of the hearing, and not on matter outside of that record. The record consists of the original Grievance, any written response, and the oral and written evidence produced at the hearing.

**APPEAL** — Any appeal relating to a Grievance Hearing Committee decision that the Statement of Grievance does not present a Grievance as defined in these procedures shall be made in writing to the CEO within [five] days of that decision. The CEO shall review the Statement of Grievance and Request for Grievance Hearing in accordance with the requirements for a Grievance provided in these procedures, but shall not consider any other matters. The CEO's decision whether or not to grant a Grievance hearing shall be final and not subject to further appeal.

CEO's Decision: Within five (5) days following receipt of the Grievance Hearing Committee's decision and recommendation(s), the CEO shall send to all Parties his/her/their written decision, together with the Hearing Committee's decision and recommendations. The CEO may accept or reject the findings, decisions and recommendations of the Hearing Committee. The factual findings of the Hearing Committee shall be accorded great weight; and if the CEO does not accept the decision or a finding or recommendation of the Hearing Committee, the CEO shall review the record of the hearing, and shall prepare a new written decision which contains specific factual findings and conclusions. The decision of the CEO shall be final.



**TIME LIMITS:** Any times specified in these procedures may be shortened or lengthened if there is a mutual concurrence by all Parties.

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>

## **IVC Campus Safety**

The IVC Campus Safety & Parking Control Department strives to promote a safe campus environment conducive to academic achievement through the cooperation of students, faculty, and staff. With your help in reporting suspicious activities or crimes, we are confident we can achieve this goal. We encourage the prompt reporting of any incident that threatens the safety, health or rights of our campus community. In compliance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, referred to as the Clery Act. This act requires that all Title IV institutions prepare, publish and distribute an annual security report which contains, among other information, three years of the institution's crime statistics. The crime reporting covers on campus, on public property, or non-campus buildings or property. The report is available for download or viewing electronically at: <https://www.imperial.edu/about/campus-safety/clery-act-information/> and in hard-copy format at the Campus Safety & Parking Control Office (Office 902). We remain committed to providing the highest level of service and safety. If you have questions or concerns, please feel free to contact Campus Safety & Parking Control Office at (760) 355-6308, Monday through Friday.

### **EMERGENCY CONTACT INFORMATION**

To report all emergencies and/or unlawful and suspicious activity, please contact an on-duty Campus Safety Officer or Campus Deputy Sheriff at (760) 483-7411 or by using one of the Call Boxes located in the parking lots and inside the campus. To report a life threatening emergency dial 9-1-1 from any on campus telephone.

### **SMOKE FREE CAMPUS**

In accordance with Board Policy 3750, Imperial Valley College is a smoke-free/tobacco-free facility. Violation of this policy will result in appropriate disciplinary penalties for both students and employees.

### **LOST & FOUND**

Pursuant to Civil Code Sections 2080-2080.9, all found property turned into the Office of Student Affairs (Building 1000) is kept for 90 days. After 90 days, if the owner cannot be located, the property may be destroyed or donated. To inquire about a lost or found property, contact the Campus Safety & Parking Control Office (Office 902) at (760) 355-6308 or the Office of Student Affairs (Building 1000) at (760) 355-6456 or (760) 355-6455.

## **IVC Parking**

Students must purchase and properly display an Imperial Valley College parking permit while parked on campus property. Restricted parking is in effect from 7:00 AM to 10:00 PM Monday through Friday of each week. The responsibility of finding a legal parking space, rests with the vehicle operator and/or owner. The purchase of a parking permit does not guarantee a space to park. For the safety of the college community, all California Vehicle Codes are enforced.

- Student parking permits are purchased through WebStar at [www.imperial.edu](http://www.imperial.edu). It will link you to Paymycite.com to purchase your parking permit. You may pay by credit card online or if you choose to pay by cash or check you may stop by the Campus Safety and Parking Control Office (Office 902).
- The student parking permit is only valid when properly affixed to the inside lower left corner (driver's side) of the vehicle's front windshield.
- Daily parking permits may be purchased for \$2 from parking lot permit dispensers located in Parking Lots A, B, C, D, J, and K. The daily permit must be displayed on the dashboard face-up and

valid date clearly visible. Please use one dollar bills only or any major credit/debit card. No refund or change is given. Pay stations permits are only valid in student parking lots.

- All vehicles must park within a marked stall (CVC 21113A).
- Head-in parking is required in all spaces.
- All vehicles utilizing disabled parking spaces must display a state issued identification placard, i.e. DMV issued placard, DP or DV plates.
- Motorcycle, scooters, and mopeds must be parked in designated motorcycle areas; with a motorcycle permit displayed. Motorcycles parked in auto parking spaces are subject to citation.
- There are no refunds or replacement of lost or stolen parking permits.
- Imperial Valley College is not responsible for any theft or loss of property due to vandalism or accident while utilizing parking facilities.

## **PARKING CITATION**

IVC Campus Parking and Traffic Regulations may be found on the college website or obtained from the Campus Safety & Parking Control Office.

- Parking citation fines are to be paid within 21 calendar days of issue date or 14 days of delinquent notice. Failure to pay fines on time results in a delinquency fee.
- Fees resulting from citations are payable at the IVC Campus Safety and Parking Control Office (Office 902) or online at <https://www.paymycite.com/imperialVC>. Unpaid citations are subject to a delinquent fee. Payment failure will eventually result in a DMV hold on the vehicle's registration.

You may obtain a "Citation Appeal Form" at the Campus Safety and Parking Control Office (Office 902) or by visiting <https://www.imperial.edu/students/parking-control/citations/contesting-a-citation/>. Complete the form within 21 calendar days of the citation's issued date. You will receive a response to your request within 7 to 9 business days. If you do not hear a response, please contact the Parking Control Office at 760-355-6308.

This Page Intentionally Left Blank



**DEGREES, CERTIFICATES AND  
TRANSFER PLANNING**

## 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.

Students pursuing AA/AS degrees must select one of the three IVC General Education Plans with the assistance of a counselor. The selection of the general education plan should correspond to the students' academic goal.

Plan 1 - Imperial Valley College General Education and Institutional Requirements.

Plan 2 - California State University General Education Breadth (CSU GEB).

Plan 3 - Intersegmental General Education Transfer Curriculum (IGETC). Students must choose and declare the IGETC option that best fits their academic goal: IGETC - CSU or IGETC - UC.

### 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 (AA or AS) is based upon the completion of 60 lower division, degree applicable units. 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)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Each AA-T or AS-T is accepted by some but not all CSU campuses. Students transferring into a similar major at a CSU system will be required to complete no more than 60 units after transfer to earn a bachelor's degree in that major.

Students applying to their local CSU campus in a major deemed similar to the AA-T or AS-T will receive priority admission consideration. Please see a counselor and [www.ADegreeWithAGuarantee.com](http://www.ADegreeWithAGuarantee.com) for more information.

To view the most current list of Imperial Valley College Associate Degrees for Transfer visit the IVC website at [www.imperial.edu](http://www.imperial.edu). To find out which CSU campuses accept each degree, please go to [www.ADegreeWithAGuarantee.com](http://www.ADegreeWithAGuarantee.com). 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.

## General Associate Degree Requirements

All degrees have the following requirements in common:

- In Residence Requirement: Students must complete 12 degree applicable units in residence at Imperial Valley College.
- A minimum of 18 units must be completed in the major. All major courses must be completed with a "C" or better.
- 60 units: A minimum of 60 degree applicable units are required to complete an AA/AS degree and 60 CSU transferable units are required to complete an AA-T/AS-T degree.
- 2.0 grade point average: A minimum of a 2.0 cumulative GPA in all degree applicable coursework is required for earning an AA/AS degree. A cumulative GPA of 2.0 in all CSU transferable coursework is required to earn an AA-T/AS-T degree. This includes transcripts for all colleges and universities attended. Official transcripts of all colleges and universities attended must be on file and evaluated before the awarding of the associate degree.

Recency: Departments may require that courses for the major or program admission be completed within a specified period of time prior to the granting of the associate degree.

## 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 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. Petition to earn a certificate with the IVC Admissions and Records Office during the term in which all requirements are completed. (See the 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.

# CERTIFICATES AND ASSOCIATE DEGREES CHART

## IMPERIAL VALLEY COLLEGE CERTIFICATES AND ASSOCIATE DEGREES - 2022-2023 ACADEMIC YEAR

FIELDS OF STUDY	Cert/Deg Awarded					FIELDS OF STUDY	Cert/Deg Awarded				
	A.A.	A.S.	Cert	AA-T	AS-T		A.A.	A.S.	Cert	AA-T	AS-T
Accounting Technician		•	•			Correctional Science: Corrections Officer			•		
Addiction Disorder Studies		•	•			Cybersecurity		•	•		
Administration of Justice		•	•			Diesel Farm Machinery and Heavy Equipment		•	•		
Administration of Justice for Transfer					•	Digital Design and Production		•	•		
Administration of Justice: Law Enforcement		•	•			Early Childhood Education for Transfer					•
Agriculture Business for Transfer					•	Economics for Transfer				•	
Agriculture Business Management			•			Electrical Technology		•	•		
Agriculture Plant Science for Transfer					•	Electrical Technology: General Electrician			•		
Agriculture Plant Science			•			Electrical Technology: Residential Electrician			•		
Air Conditioning and Refrigeration Technology		•	•			Electrical Trades		•	•		
American Sign Language	•					Elementary Teacher Education for Transfer				•	
Anthropology for Transfer				•		Emergency Medical Services		•	•		
Apprenticeship - Control Operator			•			English for Transfer				•	
Apprenticeship - Electrician		•	•			Exercise Science		•			
Apprenticeship - Generation Mechanic		•	•			Fire Technology		•	•		
Apprenticeship - Hydro Operator			•			Firefighter I			•		
Apprenticeship - Instrument Technician			•			French	•				
Apprenticeship - Meter Technician		•	•			General Science		•			
Apprenticeship - Power Lineperson		•	•			Geography for Transfer				•	
Apprenticeship - Relays Technician		•	•			Geology for Transfer					•
Apprenticeship - SCADA/Telecommunications Technician		•	•			Global Studies for Transfer				•	
Apprenticeship - Substation-Electrician		•	•			History for Transfer				•	
Apprenticeship - Telecommunications Technician			•			Humanities	•				
Art History for Transfer				•		Industrial Automation Technology		•	•		
Automotive Technology		•	•			Intersegmental General Education Transfer Curriculum (IGETC)			•		
Automotive Technology: Fundamentals of Automotive Service			•			Kinesiology for Transfer				•	
Automotive Technology: Maintenance and Basic Repair			•			Low Voltage Systems Technician			•		
Behavioral Science	•					Mathematics for Transfer					•
Biology for Transfer					•	Medical Assistant			•		
Building Construction Technology		•	•			Microsoft Office			•		
Building Construction Technology - Carpentry Specialization			•			Music for Transfer				•	
Business Administration for Transfer					•	Nursing - R.N. (Associate Degree)		•			
Business Administration 2.0 for Transfer					•	Nursing - V.N. (Vocational)		•	•		
Business Administrative Assistant		•	•			Nutrition and Dietetics for Transfer					•
Business Information Systems		•	•			Physics for Transfer					•
Business Management		•	•			Political Science for Transfer				•	
Business Office Technician		•	•			Pre-Engineering		•			
California State University General Education Breadth (CSU GE-B)			•			Pre-Nursing and Allied Health		•			
Care of the Elderly for the Health Assistant			•			Psychology for Transfer				•	
Chemistry for Transfer					•	Public Health Science for Transfer					•
Chicana/o Studies	•					Retail Management			•		
Child Development		•				Social Science	•				
Child Development - Administration Specialization			•			Sociology for Transfer				•	
Child Development - Associate Teacher			•			Spanish for Transfer				•	
Child Development - Children with Special Needs Specialization			•			Studio Arts for Transfer				•	
Child Development - Infant/Toddler Specialization			•			University Studies: Arts and Humanities	•				
Computer Networking			•			University Studies: Behavioral and Social Sciences	•				
Communication Studies for Transfer				•		University Studies: Science and Mathematics	•				
Computer Information Technology		•	•			Water Treatment Systems Technology		•	•		
Computer Science for Transfer					•	Water Treatment Systems Technology: Wastewater Treatment Specialization			•		
Correctional Science		•	•			Welding Technology		•	•		

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. Detailed information is available in the college catalog.

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. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

The **Certificate of Achievement** program is designed for students with personal or occupational goals who wish early employment. Please view the current college catalog for specific program requirements.



# IVC GRADUATION REQUIREMENTS

## PLAN 1

### ASSOCIATE DEGREE GRADUATION REQUIREMENTS FOR IMPERIAL VALLEY COLLEGE 2022-2023 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 Pass "P" or "C" or better. A letter grade is recommended.*

**II. UNITS, G.P.A., FINANCIAL OBLIGATIONS, AND RESIDENCE REQUIREMENTS**

- A. Sixty (60) degree-applicable units
- B. Cumulative G.P.A. of 2.0 or better for all degree-applicable college work from all colleges attended
- 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 (4.0 to 6.0 units)  
Select one course (4.0 units): POLS 110  
**OR**  
Select two courses (6.0 units): POLS 102 and HIST 120 OR HIST 121

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

*NOTE: This requirement is waived for students who have completed the ADRN or LVN major coursework. ADRN and LVN students with a bachelor's degree from a regionally accredited institution will have satisfied Plan 1.*

**C. ES 100 (2.0 Units) and One (1) Exercise Science (ES) Activity Course (1.0 Unit)**

**IV. STATE COMPETENCY REQUIREMENTS**

- A. **Math Competency:** Completion of MATH 091 or MATH 098 or any transfer level math course with a grade of "C" or better.
- B. **Reading and Writing Competency:** Completion of ENGL 105, ENGL 110, or ESL 108 or any course fulfilling the A1 requirement 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	105	Intensive Composition and Reading	5.0	
ENGL	110	Composition and Reading	4.0	
ESL	108	College Comp for Non Native Speakers	5.0	
2. Communication & Analytical Thinking				Units: 3.0 semester/4.0 quarter units required.
BUS	260	Business Communications	3.0	
CIS	101	Introduction to Information Systems	3.0	
CIS	202	Prog Concepts and Methodologies	3.0	
CIS	212	Web Development Programming	3.0	
CIS	214	PHP Fundamentals for Web Dev	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 Object Oriented Prog in Java	3.0	
CS	231	Introduction to Data Structures	3.0	
CS	240	Discrete Structures	3.0	
CS	281	Assembly Language and Machine Org	3.0	
ENGL	201	Advanced Composition	3.0	
ENGL	204	Adv Comp and Crit Think Through Lit	4.0	
ENGL	250	Creative Writing	3.0	
* ENGL	270	Introduction to Linguistics	3.0	
MATH	110	Number Systems in Elementary Math	3.0	
MATH	112	Geometry in Elementary Mathematics	4.0	
MATH	119	Elementary Statistics	3.0	
MATH	122	Finite Mathematics	3.0	
MATH	140	Trigonometry	4.0	
MATH	150	College Algebra	4.0	
MATH	170	Introductory Calculus w/Applications	5.0	
MATH	190	Pre-Calculus	4.0	
MATH	192	Analytic Geometry and Calculus I	4.0	
MATH	194	Analytic Geometry and Calculus II	4.0	
MATH	210	Multivariable Calculus	3.0	
MATH	220	Elementary Differential Equations	3.0	
MATH	230	Intro to Linear Equations w/Applications	3.0	
MATH	240	Discrete Mathematics	3.0	
PHIL	106	Logic	4.0	
PSY	214	Statistical Methods in Behavioral Sci	3.0	
READ	111	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	Principles of Entomology	3.0	
ANTH	100	Physical Anthropology	3.0	
ASTR	100	Principles of Astronomy	3.0	
BIOL	090	Anatomy & Physio for Health Occup	3.0	
BIOL	100	Principles of Biological Science	4.0	
BIOL	124	Biology of Animals	4.0	
BIOL	140	General Botany	3.0	
BIOL	150	Human Genetics	3.0	
BIOL	180	Gen Biol: Molecules/Cells/Genetics	4.0	
BIOL	182	Gen Biol: Prin of Organismal Biology	4.0	
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	100	Introduction to Chemistry	4.0	
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	
CHEM	230	Analytical Chemistry	5.0	
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  
2022-2023 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 of Modern Art	3.0
+* CHIC	100	Introduction to Chicana/o Studies	3.0
ENGL	102	Introduction to Literature	3.0
ENGL	210	Children's Literature	3.0
ENGL	220	Survey of American Literature I	3.0
ENGL	221	Survey of American Literature II	3.0
ENGL	224	Survey of British Literature I	3.0
ENGL	225	Survey of British Literature II	3.0
ENGL/HUM	226	Introduction to Mythology	3.0
ENGL	257	Survey of Chicana/o Literature	3.0
* ENGL	270	Introduction to Linguistics	3.0
ESL	106	Academic Discourse - US Cultures	5.0
ESL	107	Academic Discourse - World Cultures	5.0
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	130	Early Latin America	3.0
* HIST	131	Modern Latin America	3.0
* HIST	132	History of Mexico	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	Introduction to the Humanities	3.0
HUM/ENGL	226	Introduction to Mythology	3.0
MUS	100	Introduction to Music Foundations	3.0
MUS	102	Intro to Music Literature & Listening	3.0
MUS	106	Music History 1750 to Present	3.0
MUS	120	Music Theory I	3.0
MUS	122	Music Theory II	3.0
MUS	220	Music Theory III	3.0
MUS	222	Music Theory IV	3.0
PHIL	100	Introduction to Philosophy I	3.0
PHIL	102	Introduction to Philosophy II	3.0
PHIL/RELS	104	Ethics	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	113	Beginning Conversational Spanish I	2.5
SPAN	200	Intermediate Spanish I	5.0
SPAN	210	Intermediate Spanish II	5.0
SPAN	220	Spanish for Heritage Speakers I	5.0
SPAN	221	Spanish for Heritage Speakers II	5.0
SPAN	222	Bilingual Oral Spanish	3.0
SPAN	225	Intro to Spanish American Literature	3.0
THEA	100	Introduction to Theatre	3.0

**D. SOCIAL AND BEHAVIORAL SCIENCES**

Units: 3.0 semester/4.0 quarter units required.

+ AIS/ANTH	106	Indians of North America	3.0
+ AIS/ANTH	108	Indians of the Southwest	3.0
AJ	100	Introduction to the Admin of Justice	3.0
AJ	106	Prin & Procedures of the Justice Sys	3.0
ANTH	102	Cultural Anthropology	3.0
ANTH	120	Introduction to Archaeology	3.0
CDEV	103	Child, Family & Community	3.0
CDEV/PSY	104	Child Growth & Development	3.0
+* CHIC	100	Intro to Chicana/o Studies	3.0
+ CHIC	110	Chicana/o Heritage	3.0
+ CHIC/SOC	180	La Chicana	3.0
* COMM	125	Interpersonal Communication	3.0
COMM	150	Intercultural Communication	3.0
ECON	101	Introduction to Micro Economics	3.0
ECON	102	Introduction to Macro Economics	3.0
GEOG	102	Cultural Geography	3.0
GEOG	108	World Regional Geography	3.0
GEOG	140	California Geography	3.0
GLST	101	Introduction to Global Studies	3.0
GLST	102	Global Issues	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 Reconstruction	3.0
^ HIST	121	US History: Reconstruction to Present	3.0
* HIST	130	Early Latin America	3.0
* HIST	131	Modern Latin America	3.0
* HIST	132	History of Mexico	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
POLS	100	Introduction to Political Science	3.0
^ POLS	102	American Government & Politics	3.0
POLS	104	Comparative Politics	3.0
POLS	106	Introduction to International Relations	3.0
POLS	108	Intro to Political Theory and Thought	3.0
POLS	110	American Institutions and History	4.0
PSY	101	Introduction to Psychology	3.0
PSY	120	Introduction 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	Dev Psych: Conception to Death	3.0
PSY/SOC	206	Social Psychology	3.0
PSY	208	Abnormal Psychology	3.0
PSY	211	Cognitive Psychology	3.0
SOC	101	Introductory Sociology	3.0
SOC	102	Contemporary Social Problems	3.0
SOC	110	Marriage & Family	3.0
+ SOC	150	Sociology of Minority Groups	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 four areas (A, B, C and D) identified above as determined by the student's option.

+ Ethnic Studies Course

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

^ Courses may be used to meet American Institutions and one General Education area.

## Transfer Planning

Imperial Valley College offers many courses that apply toward transfer credit at baccalaureate degree granting institutions. The Transfer Center is a resource center for students who desire to earn a bachelor's degree at a university after attending Imperial Valley College. The Transfer Center provides access to: university catalogs, student computer work stations, university informational brochures, university representative appointments, college fair events and transfer advising. The Transfer Center houses information on articulation agreements indicating courses that will fulfill general education, lower division major and elective requirements at universities. Workshops are offered outlining transfer requirements and to provide guidance submitting university applications.

Students should identify their transfer goal and enroll in transferable courses to fulfill general education and major preparation courses as early as possible. Questions regarding transfer can be discussed with Imperial Valley College counselors and the Transfer Center Director. Students interested in transfer should meet with a counselor to identify the courses needed to transfer and develop an educational plan. The Transfer Center is located in building 100, and can be reached by phone at (760) 355-6274. Information can be accessed online at [www.imperial.edu/students/transfer-center](http://www.imperial.edu/students/transfer-center).

### Components of Transfer

Transfer students are those who attend community college to complete lower division major and general education requirements and then continue their education at a university in order to earn a bachelor's degree.

#### A. Identifying your Transfer Goal

##### **Determine your Career Objective:**

The type of degree you earn and your choice of major will be determined by your career goal.

##### **Decide on your Major:**

Transfer students will complete courses in a chosen area of academic study. These courses are known as major courses. Your choice of major should be informed by your career goal.

##### **Select your University:**

It is recommended that students research university choices. This can be done through online searches, meeting with the university representative available in the Transfer Center, talking with university alumni and attending campus tours. It is recommended transfer students apply to multiple universities.

#### B. Transfer Educational Planning

In order to reach the 60 units necessary to transfer to the CSU and UC system, transfer students will complete major preparation and general education courses.

##### **Major Preparation:**

Universities may require specific lower-division courses be completed in order to be eligible for admission to a major upon transfer. To view the lower division major requirements for public universities in California and determine the IVC courses that meet these requirements visit [www.assist.org](http://www.assist.org). The Assist website is an articulation repository that stores articulation agreements between all California Community Colleges and the California public universities.

The term "articulation" refers to the process whereby one course (or set of courses) offered at one institution is accepted as equivalent or in lieu of a comparable course at another.

##### **General Education Requirements**

General education coursework is required for all students pursuing a bachelor's degree. Each university has a different general education pattern. Students can consult the university catalog to determine native pattern general education requirements. Imperial Valley College students can choose from the following transfer general education pattern choices:

1. Complete specific requirements for an individual university.
2. Complete the approved Intersegmental General Education Transfer Curriculum (IGETC) pattern of courses. The IGETC is accepted at all CSU campuses, most UC campuses, and some private and out of state institutions.
3. Complete the approved California State University General Education and Breadth pattern of lower-division courses. The CSU GE-B pattern is acceptable at all CSU campuses and some private and out of state institutions. Transfer students should work with a counselor to determine the general education pattern that fits their academic goal.

### **Electives**

Electives are additional courses taken once all requirements have been fulfilled to reach the required number of units needed to transfer. Transfer students must make sure that electives selected are transferable to the system in which the student intends to transfer (CSU or UC). To determine course transferability, consult the course description in the IVC catalog.

### **C. Applying to the University**

It is necessary to apply to public universities in California approximately a year in advance of the expected transfer term. Transfer students should visit <https://www2.calstate.edu/apply> to access CSU application deadlines and <http://admission.universityofcalifornia.edu> for UC application deadlines. For more information contact the IVC Transfer Center at (760) 355-6274 or access information online at [www.imperial.edu/students/transfer-center](http://www.imperial.edu/students/transfer-center).

## **Transfer Resources**

### **Private and Independent Colleges and Universities**

There are hundreds of regionally accredited private and independent colleges and universities throughout the United States. Admission requirements are different at each private and independent university. Admission requirements and deadlines can be researched in the Transfer Center. Go to [www.aiccu.edu](http://www.aiccu.edu) to access information on the private and independent colleges in the state of California.

### **Hispanic-Serving Institutions (HACU)**

There are 193 member HACU institutions located in the United States and Puerto Rico. California is home to 54. To be considered a Hispanic Serving institution, 25 percent of the student population must be Hispanic. The Hispanic Association of Colleges and Universities (HACU) is a national educational association that represents colleges and universities committed to Hispanic higher education success. Go to <https://www.hacu.net> to access information on member institutions.

### **Historically Black Colleges and Universities (HBCU)**

There are over 125 HBCU institutions in the United States. HBCU institutions were founded prior to 1964 with the principle mission of educating black Americans. To access a list of member institutions and learn about admission requirements go to <http://hbcuconnect.com>.

### **Tribal Colleges and Universities**

There are 35 federally recognized Tribal Colleges and Universities in the United States who offer two-year degrees in over 200 disciplines. Information on member schools can be found at <https://sites.ed.gov/whiaiane/tribes-tcus/tribal-colleges-anduniversities>. Bachelor's and master's degrees are also offered at select institutions. The Tribal colleges and universities are mainly located in the mid and southwestern United States.

### **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. Some institutions have opened their entire curriculum on a space-available or first-come, first served basis. While others offer only designated programs at the discounted WUE rate.

To access information online go to: <http://wiche.edu/wue>

## 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](http://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 General Education Breadth Requirements CHART

CSU GEB

PLAN 2

CSU GEB

## IMPERIAL VALLEY COLLEGE 2022-2023 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/CLEP/IB).	Course	Trm/Grd
<b>AREA A - ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING (9 semester or 12-15 quarter units)</b>		
<b>AREA A1: Oral Communication - One (1) course (3 semester or 4-5 quarter units)</b> Grade of "C-" Required for Admission & Certification. COMM 100      Other College (Course/Institution): _____ <i>No AP/CLEP/IB scores accepted for this area.</i>		
<b>AREA A2: Written Communication - One (1) course (3 semester or 4-5 quarter units)</b> Grade of "C-" Required for Admission & Certification. ENGL 105, ENGL 110, ESL 108      Other College (Course/Institution): _____      AP: _____		
<b>AREA A3: Critical Thinking - One (1) course (3 semester or 4-5 quarter units)</b> Grade of "C-" Required for Admission & Certification. COMM 180, ENGL 201, ENGL 204, PHIL 106, READ 111 Other College (Course/Institution): _____ <i>No AP/CLEP/IB scores accepted for this area.</i>		
<b>AREA B - SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING (9 semester or 12-15 quarter units with at least one lab course marked with a "L")</b>		
<b>AREA B1: Physical Science - One course required:</b> AG/ENVS 110, AG 120(L), ASTR 100, CHEM 100(L), CHEM 200(L), CHEM 202(L), CHEM 204(L), CHEM 206(L), CHEM 230(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): _____      AP/CLEP/IB: _____		
<b>AREA B2 - Life Science - One course required:</b> AG 140(L), AG 170(L), ANTH 100, BIOL 100(L), BIOL 124(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): _____      AP/CLEP/IB: _____		
<b>AREA B3 - Laboratory Activity (See Area B1 and B2 ABOVE for course marked with a "L") - One course required:</b> GEOG 111 Other College (Course/Institution): _____      AP/IB: _____		
<b>AREA B4 - MATHEMATICS/QUANTITATIVE REASONING - One (1) course (Minimum: 3 semester or 4-5 quarter units)</b> CS 240, 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): _____      AP/CLEP/IB: _____		
<b>AREA C - ARTS AND HUMANITIES (9 semester or 12-15 quarter units)</b>		
<b>At least three (3) courses, with at least one course from the Arts and one course from the Humanities.</b>		
<b>AREA C1 - ARTS - One (1) course (3 semester or 4-5 quarter units)</b> ART 100, ART 102, ART 104, FILM 130, MUS 100, MUS 102, MUS 106, MUS 120, MUS 220, MUS 222, THEA 100 Other College (Course/Institution): _____      AP/IB: _____		
<b>AREA C2 - HUMANITIES - One (1) course (3 semester or 4-5 quarter units)</b> AMSL 100, AMSL 102, AMSL 200, ARAB 100, *CHIC 100, ENGL 102, ENGL 210, ENGL 220, ENGL 221, ENGL 224, ENGL 225, ENGL/HUM 226, ENGL 257, ENGL 270, ESL 106, ESL 107, FREN 100, FREN 110, FREN 201, FREN 211, *HIST 100, *HIST 101, *HIST 110, *HIST 111, *HIST 120, *HIST 121, *HIST 130, *HIST 131, *HIST 160, *HIST 220, *HIST 222, HUM 100, PHIL 100, PHIL 102, PHIL/RELS 104, RELS 100, SPAN 100, SPAN 110, SPAN 200, SPAN 210, SPAN 220, SPAN 221, SPAN 222, SPAN 225 Other College (Course/Institution): _____      AP/CLEP/IB: _____		
<b>AREA D - SOCIAL SCIENCE (6 semester or 8-11 quarter units.)</b>		
<b>Courses from two disciplines recommended not required.</b>		
AJ 100, AJ 106, *AIS 106/ANTH 106, *AIS/ANTH 108, ANTH 102, ANTH 120, CDEV 103, CDEV/PSY 104, *CHIC 100, *CHIC 110, *CHIC/SOC 180, COMM 125, COMM 150, ECON 101, ECON 102, GEOG 102, GEOG 108, GEOG 140, GLST 101, GLST 102, *HIST 100, *HIST 101, *HIST 110, *HIST 111, *HIST 120, *HIST 121, *HIST 130, *HIST 131, HIST 132, *HIST 160, *HIST 220, HIST 222, HIST 225, POLS 100, POLS 102, POLS 104, POLS 106, POLS 108, POLS 110, PSY 101, PSY 142, PSY 202, PSY/SOC 206, PSY 208, PSY 211, SOC 101, SOC 102, SOC 150 Other College (Course/Institution): _____      AP/CLEP/IB: _____		
<b>AREA E - LIFELONG UNDERSTANDING AND SELF-DEVELOPMENT - One (1) course (3 semester/4-5 quarter units)</b>		
COUN 100, COUN 120, HE 102, PSY 144, PSY 146, PSY 204, SOC 110 Other College (Course/Institution): _____      AP/CLEP/IB: _____ Military Service Credit Clears Area E: <b>Requires Copy of DD-214</b>		
<b>AREA F - ETHNIC STUDIES - One (1) course (3 semester/4-5 quarter units)</b>		
*AIS/ANTH 106, *AIS/ANTH 108, *CHIC 100, *CHIC 110, *CHIC 180/SOC180 Other College (Course/Institution): _____ <i>No AP/CLEP/IB scores accepted for this area.</i>		
<b>CSU GRADUATION REQUIREMENT - Not part of CSU GE B. May be completed prior to transfer as part of area D.</b> <b>AMERICAN INSTITUTIONS (AI) - U.S. History, Constitution and American Ideals</b> <b>Select course(s) to fulfill US 1, US 2 and US 3. (4-6 semester units, 6-9 quarter units)</b> a. US 1:                                      HIST 120 <u>OR</u> HIST 121                                      Other College: _____                                      AP/CLEP: _____ b. US 2 and US 3:                                      POLS 102                                      Other College: _____                                      AP/CLEP: _____ c. US 1, US 2 and US 3:                                      POLS 110                                      Other College: _____		

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: \_\_\_\_\_

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 - nine (9) units; Area E - three (3) units; and Area F - 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, College Level Examination Program (CLEP), and International Baccalaureate (IB) may count towards satisfying CSU GEB 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 GEB 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 GEB 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 quantitative 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.universityofcalifornia.edu/admissions](http://www.universityofcalifornia.edu/admissions).

## The University of California Application Filing Periods

*The following information is subject to change.*

Fall Semester/Quarter: October 1-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 available at:

[www.universityofcalifornia.edu/apply](http://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-division GE requirements.

***The IGETC is recommended for students who have not made a final decision about transferring to a particular CSU or UC campus.*** Students may be better served by following the CSU GE requirements or those of the UC campus to which they plan to transfer.

Students pursuing majors which require extensive lower division major preparation may not find the IGETC option to be advantageous. There are other limitations. All courses used for IGETC must be passed **with a minimum grade C**. (C minus is not acceptable.) A credit or pass is acceptable providing either is equivalent to a grade "C" or better.

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

**Certification:** All GE requirements must be completed before IGETC can be certified. Certification must take place prior to transfer to UC and/or CSU. The Admissions Office will complete the certification. 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.

# Intersegmental General Education Transfer Curriculum (IGETC) CHART

IGETC

PLAN 3

IGETC

## IMPERIAL VALLEY COLLEGE 2022-2023 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 or IB.  
All courses must be completed with grades of "C" or better. A "C-" is not acceptable.

**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.

	Course	Trm/Grd
<b>GROUP 1A: English Composition - One (1) course (3 semester or 4-5 quarter units)</b> ENGL 105, ENGL 110 Other College (Course/Institution): _____ AP: _____		
<b>GROUP 1B: Critical Thinking-English Composition - One (1) course (3 semester or 4-5 quarter units)</b> ENGL 201, ENGL 204 Other College (Course/Institution): _____ <i>No AP or IB scores accepted for this area.</i>		
<b>GROUP 1C: Oral Communication - One (1) course (3 semester or 4-5 quarter units)</b> COMM 100, COMM 180 Other College (Course/Institution): _____ <i>No AP or IB scores accepted for this area.</i>		

**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): \_\_\_\_\_ AP/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.

	Arts	Hum	A/H
<b>GROUP 3A - ARTS - One (1) course (3 semester or 4-5 quarter units)</b> ART 100, ART 102, ART 104, FILM 130, +MUS 100, MUS 102, MUS 120, MUS 220, MUS 222, THEA 100 Other College (Course/Institution): _____ AP/IB: _____			
<b>GROUP 3B - HUMANITIES - One (1) course (3 semester or 4-5 quarter units)</b> AMSL 102, AMSL 200, *CHIC 100, ENGL 102, ENGL 210, ENGL 220, ENGL 221, ENGL 224, ENGL 225, ENGL/HUM 226, ENGL 270, ESL 106, ESL 107, FREN 110, FREN 201, FREN 211, *HIST 100, *HIST 101, *HIST 110, *HIST 111, *HIST 120, *HIST 121, *HIST 130, *HIST 131, *HIST 132, *HIST 160, *HIST 220, *HIST 222, HUM 100, PHIL 100, PHIL 102, PHIL/RELS 104, RELS 100, SPAN 110, +SPAN 200, +SPAN 210, +SPAN 220, +SPAN 221, SPAN 225 Other College (Course/Institution): _____ AP/IB: _____			

**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.

AIS/ANTH 106, AIS/ANTH 108, ANTH 102, ANTH 120, +CDEV/PSY 104, *CHIC 100, CHIC 110, CHIC/SOC 180, COMM 125, COMM 150, ECON 101, ECON 102, *GEOG 100, *GEOG 102, GEOG 108, GEOG 140, GLST 101, GLST 102, *HIST 100, *HIST 101, *HIST 110, *HIST 111, *HIST 120, *HIST 121, *HIST 130, *HIST 131, *HIST 132, HIST 160, HIST 220, *HIST 222, HIST 225, POLS 100, POLS 102, POLS 104, POLS 106, POLS 108, POLS 110, PSY 101, PSY 146, *PSY 200, PSY 202, +PSY 204, PSY/SOC 206, PSY 208, PSY 211, SOC 101, SOC 102, SOC 150 Other College (Course/Institution): _____ AP/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")**

<b>GROUP 5A: Physical Science - One course required:</b> AG/ENVS 110, AG 120 (L), ASTR 100, +CHEM 100(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): _____ AP/IB: _____		
<b>GROUP 5B - Biological Science - One course required:</b> AG 140 (L), AG 170(L), ANTH 100, +BIOL 100(L), BIOL 124(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): _____ AP/IB: _____		
<b>GROUP 5C - Laboratory Science (See Area 5A and 5B ABOVE for course marked with a "L") - One course required:</b> GEOG 111 (L) Other College (Course/Institution): _____ AP: _____		

**AREA 6 - LANGUAGES OTHER THAN ENGLISH**

(UC Requirement Only)

Complete the second level or higher of a foreign language in high school with a second semester grade of C- or better OR successfully complete a College Board Advanced Placement or International Baccalaureate Higher Level exam in a language other than English OR earn a satisfactory score on the SAT II: Subject Test in a 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).		
--	--	--

**CSU GRADUATION REQUIREMENTS - (NOT part of IGETC; CSU students may complete prior to transfer as part of AREA 4.)**

**AMERICAN INSTITUTIONS (4-6 semester units):** Two courses from: HIST 120 or HIST 121 and POLS 102; OR one course: POLS 110

**ETHNIC STUDIES (3 semester units):** Select one course from: AIS/ANTH 106 or AIS/ANTH 108 or CHIC 100 or CHIC 110 or CHIC/SOC 180

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.

## NOTE:

- The following UCSD colleges accept IGETC: Muir, Marshall, Roosevelt, Sixth, and Warren. Revelle may require additional general education courses. IGETC is 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>.

This Page Intentionally Left Blank



**ASSOCIATE DEGREE AND  
CERTIFICATE OF ACHIEVEMENT  
PROGRAMS**

## ACCOUNTING TECHNICIAN – Major (A.S.) and Certificate

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

### Learning Outcome(s):

1. Solve business-related math problems.
2. Communicate business results using computer software.
3. Record and report routine accounting transactions.

### 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

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

## ACCOUNTING TECHNICIAN Major (A.S.) and Certificate

Twenty-two (22.0) units required for the major

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

I. Required courses (19.0 units)		Units: 19.0
ACCT 099	Practical Accounting	3.0
ACCT 210	Principles of Financial Accounting **	4.0
ACCT 220	Principles of Managerial Accounting	4.0
ACCT 240	Computer Accounting	3.0
BUS 105	Business Office Math	3.0
CIS 124	EXCEL I	1.0
CIS 125	EXCEL II	1.0

\*\*It is recommended that ACCT 099 be taken as preparation for ACCT 210.

II. Select a minimum of 3.0 units from the following		Units: 3.0
BUS 108	VITA/IRS Tax Preparation	3.0
BUS 124	Introduction to Business	3.0
BUS 169	Records and Information Management	2.0
BUS 180	Microsoft Office Suite for the Workplace	4.0
WE 201	Employment Readiness	1.0
WE 220	Internship	1.0
		Total: 22.0

Twenty-two (22.0) units required for the certificate

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

I. Required courses (19.0 units)		Units: 19.0
ACCT 099	Practical Accounting	3.0
ACCT 210	Principles of Financial Accounting *	4.0
ACCT 220	Principles of Managerial Accounting	4.0
ACCT 240	Computer Accounting	3.0
BUS 105	Business Office Math	3.0
CIS 124	EXCEL I	1.0
CIS 125	EXCEL II	1.0

\*It is recommended that ACCT 099 be taken as preparation for ACCT 210.

II. Select a minimum of (3.0 units) from the following:		Units: 3.0
BUS 108	VITA/IRS Tax Preparation	3.0
BUS 124	Introduction to Business	3.0
BUS 169	Records and Information Management	2.0
BUS 180	Microsoft Office Suite for the Workplace	4.0
WE 201	Employment Readiness	1.0
WE 220	Internship	1.0
		Total: 22.0



## ADDICTION DISORDER STUDIES – Major (A.S.) and Certificate

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 Addiction Disorder 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.

### Learning Outcome(s):

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 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

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

## ADDICTION DISORDER STUDIES Major (A.S.) and Certificate

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

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

<i>I. Required courses (36.0 units)</i>		36.0
ADS 101	Introduction to Addiction Studies: Intervention, Treatment & Recovery	3.0
ADS 110	Physiological Effects of Alcohol and Drugs	3.0
ADS 200	Family Dynamics of Addiction	3.0
ADS 220	Practicum	3.0
ADS 221	Practicum	3.0
ADS 230	Alcohol and Drug Prevention and Education	3.0
ADS 235	Case Management and Documentation	3.0
ADS 240	Ethics and Legal Standards in Addiction Counseling	3.0
ADS 251	Co-Occurring Disorders	3.0
PSY 120	Introduction to Counseling	3.0
PSY 130	Group Leadership and Group Process	3.0
SOC 150	Sociology of Minority Groups	3.0
<i>II. Minimum of three (3.0) units selected from:</i>		3.0
ADS 176	Sex and Gambling Addiction	1.0
ADS 177	Anger Management	1.0
ADS 178	Life Skills	1.0
PSY 101	Introduction to Psychology	3.0
PSY 204	Developmental Psychology: Conception to Death	3.0
PSY 208	Abnormal Psychology	3.0
PSY 210	Crisis Intervention and Referral Techniques	3.0
SOC 101	Introduction to Sociology	3.0
SW 220	Introduction to Social Work	3.0
		Total: 39.0

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

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

<i>I. Required courses (36.0 units)</i>		36.0
ADS 101	Introduction to Addiction Studies: Intervention, Treatment & Recovery	3.0
ADS 110	Physiological Effects of Alcohol and Drugs	3.0
ADS 200	Family Dynamics of Addiction	3.0
ADS 220	Practicum	3.0
ADS 221	Practicum	3.0
ADS 230	Alcohol and Drug Prevention and Education	3.0
ADS 235	Case Management and Documentation	3.0
ADS 240	Ethics and Legal Standards in Addiction Counseling	3.0
ADS 251	Co-Occurring Disorders	3.0
PSY 120	Introduction to Counseling	3.0
PSY 130	Group Leadership and Group Process	3.0
SOC 150	Sociology of Minority Groups	3.0
<i>II. Minimum of three (3.0) units selected from:</i>		3.0
ADS 176	Sex and Gambling Addiction	1.0
ADS 177	Anger Management	1.0
ADS 178	Life Skills	1.0
PSY 101	Introduction to Psychology	3.0
PSY 204	Developmental Psychology: Conception to Death	3.0
PSY 208	Abnormal Psychology	3.0
PSY 210	Crisis Intervention and Referral Techniques	3.0
SOC 101	Introduction to Sociology	3.0
SW 220	Introduction to Social Work	3.0
		Total: 39.0

## ADMINISTRATION OF JUSTICE – Major (A.S.) and Certificate

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.

### Learning Outcome(s):

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

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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

• 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

**ADMINISTRATION OF JUSTICE Major (A.S.) and Certificate**  
**Twenty-four (24) units required for the major.**

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

**I. Required courses (18.0 units) Units: 18.0**

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

**II. Acceptable courses (6.0 units from the following courses) Units: 6.0**

AJ 121	Law Enforcement Field Operations	3.0
AJ 141	Arrest and Firearms	3.5
AJ 222	Criminal Investigation	3.0
AJ 223	Juvenile Control	3.0
AJ 224	Criminology	3.0
CSI 100	Introduction to Correctional Systems	3.0
CSI 104	Concepts of Probation and Parole	3.0

Total: 24.0

**Twenty-two to Twenty-three (22.0-23.0) units required for the certificate.**

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

<i>I. Required courses</i>		18.0
AJ 100	Introduction to the Administration of Justice	3.0
AJ 102	Concepts of Criminal Law	3.0
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 223	Juvenile Control	3.0
<i>Select One:</i>		4.0-5.0
ENGL 105	Intensive Composition and Reading	5.0
OR		
ENGL 110	Composition and Reading	4.0

**Total: 22.0-23.0**

## ADMINISTRATION OF JUSTICE for TRANSFER – Major (A.S.-T.)

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.

### Learning Outcome(s):

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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

Investigative positions with federal state and local agencies such as the FBI, ATF, Secret Service, DEA, Immigration and Customs Enforcement, California Department of Justice, Alcohol Beverage Control, Department of Motor Vehicles, district attorney's and public defender's offices and numerous others generally require the bachelor's degree. • Uniformed law enforcement positions with agencies at all levels of government, including: police officer, deputy sheriff, highway patrol or state police officer, border patrol agent and natural resources officer, probation and parole officers, correctional counselors, correctional officers, private security consultants, private investigators and corporate security officers, and loss prevention specialists • Crime analysts and crime scene technicians • Victim services and a wide variety of social service

agencies related to crime, justice and rehabilitation • In addition, graduates can pursue advanced degrees in law or research disciplines.

## ADMINISTRATION OF JUSTICE FOR TRANSFER Major (A.S.-T.)

### REQUIREMENTS FOR THE MAJOR

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

#### 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 (18.0-19.0) units required for the major

<b>Required Core (6.0 units)</b>		<b>Units: 6.0</b>
AJ 100	Introduction to the Administration of Justice	3.0
AJ 102	Concepts of Criminal Law	3.0
<b>List A: Select two courses (6.0 units)</b>		<b>Units: 6.0</b>
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
<b>List B: Select two courses (6.0-7.0 units)</b>		<b>Units: 6.0-7.0</b>
Any List A course not already used.		
MATH 119	Elementary Statistics	4.0
PSY 101	Introduction to Psychology	3.0
SOC 101	Introduction to Sociology	3.0
		<b>Total: 18.0-19.0</b>

## ADMINISTRATION OF JUSTICE: LAW ENFORCEMENT - Major (A.S.) and Certificate

The Administration of Justice: Law Enforcement program offers curriculum to prepare students with knowledge and skills necessary to complete a law enforcement field training program certified by the California Commission on Peace Officer Standards and Training (P.O.S.T.). Graduates from the basic core courses may be eligible for employment opportunities in government entities such as State, County and City Law Enforcement agencies specializing in police services, and private enterprise where law enforcement principles are applied.

### Learning Outcome(s):

1. Students will successfully pass all three levels of peace officer training, including physical, psycho motor, written, and ethical evaluations.

### 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

State, County and City Law Enforcement

## ADMINISTRATION OF JUSTICE: LAW ENFORCEMENT Major (A.S.) and Certificate

Thirty-eight and one half (38.5) units required for the major.

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

I. Required courses (38.5 units)		Units: 38.5
POST 160	Regular Basic Course Modular Format Level III	8.5
POST 162	Regular Basic Course Modular Format Level II	13.5
POST 164	Regular Basic Course Modular Format Level I	16.5
		Total: 38.5

Thirty-eight and one half (38.5) units required for the certificate.

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

I. Required courses (38.5 units)		Units: 38.5
POST 160	Regular Basic Course Modular Format Level III	8.5
POST 162	Regular Basic Course Modular Format Level II	13.5
POST 164	Regular Basic Course Modular Format Level I	16.5
		Total: 38.5



## AGRICULTURE BUSINESS for TRANSFER – Major (A.S.-T.)

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. These careers may include the management and operations of farms as well as in the management of firms that supply the service to farms and by those engaged in processing, marketing, distribution, and sales of farm products.

### Learning Outcome(s):

1. Demonstrate understanding of market trends and influential factors, display critical thinking skills related to production and marketing development, data interpretation as applied to the decision-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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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. 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 • Equipment Dealer • Farm and Ranch Manager • Farmland Portfolio Analysis • Farm/Estate Sales • Insurance Agent • Land Appraiser • Lending/Finance • Livestock Buyer • Loan Officer • Management Specialist • Marketing/Public Relations • Policy/International Trade • Production/Management • Trainee • Produce Buyer • Public Relations • Retail Sales • Sales Representative • Farm Management/Operations • Grain Merchandising/Commodities

## AGRICULTURE BUSINESS FOR TRANSFER Major (A.S.-T.)

### REQUIREMENTS FOR THE MAJOR

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

#### 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 (22.0-30.0) units required for the major.

Required Core (13.0-14.0 units)

Units: 13.0-14.0

Select one from either AG 120 or CHEM 100

3.0-4.0

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 (9.0-10.0 units)

Units: 9.0-10.0

AG 134 Agricultural Business Organization

3.0

AG 136 Agricultural Sales, Communication, and Service Management

3.0

AG 138 (same as  
CIS 138) Computer Applications in Agriculture

3.0

AG 140 Principles of Plant Science

4.0

List B: Select (0.0-6.0 units)

Units: 0.0-6.0

Any course not already used above.

AG 220 Irrigation and Drainage

3.0

AG 230 Fertilizers & Soil Amendments

3.0

Total: 22.0-30.0

## AGRICULTURE BUSINESS MANAGEMENT – Certificate

The Agriculture Business Management major is the application of business concepts and economic principles involved in the organization, operation, and management 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.

### Learning Outcome(s):

1. Demonstrate understanding of market trends and influential factors, display critical thinking skills related to production and marketing development, data interpretation as applied to the decision-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 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](http://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. 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 • Equipment Dealer • Farm and Ranch Manager • Farmland Portfolio Analysis • Farm/Estate Sales • Land Appraiser • Lending/Finance • Management Specialist • Marketing/Public Relations • Policy/International Trade • Production/Management • Trainee • Produce Buyer • Public Relations • Retail Sales • Sales Representative • Farm Management/Operations • Grain Merchandising/Commodities

## AGRICULTURE BUSINESS MANAGEMENT Certificate

Eighteen to Nineteen (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.

<b>I. Required courses (15.0 units)</b>		<b>Units: 15.0</b>
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
<b>II. Acceptable courses: select one (3.0-4.0 units)</b>		<b>Units: 3.0-4.0</b>
AG 138 (same as CIS 138)	Computer Applications in Agriculture	3.0
AG 140	Principles of Plant Science	4.0
		<b>Total: 18.0-19.0</b>

## AGRICULTURE PLANT SCIENCE for TRANSFER – Major (A.S.-T.)

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.

### Learning Outcome(s):

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 laboratory, 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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 • 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

## AGRICULTURE PLANT SCIENCE FOR TRANSFER Major (A.S.-T.)

### REQUIREMENTS FOR THE MAJOR

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

#### 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 (21.0-28.0) units required for the major.

##### Required Core (21.0-22.0 units)

Units: 21.0-28.0

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

##### List A: Select (0-6) units

AG 170	Principles of Entomology	3.0
AG 220	Irrigation and Drainage	3.0
AG 230	Fertilizers & Soil Amendments	3.0

Total: 21.0-28.0

## AGRICULTURE PLANT SCIENCE – Certificate

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.

### Learning Outcome(s):

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 laboratory, 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.

### 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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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 • 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

## AGRICULTURE PLANT SCIENCE Certificate

Nineteen (19) units required for the certificate.

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

<b>I. Required courses (10.0 units)</b>		<b>Units: 10.0</b>
AG 120	Soil Science	3.0
AG 140	Principles of Plant Science	4.0
AG 245	Plant Propagation/Production	3.0
<b>II. Acceptable courses: select a minimum of (9.0 units)</b>		<b>Units: 9.0</b>
AG 134	Agricultural Business Organization	3.0
AG 138 (same as CIS 138)	Computer Applications in Agriculture	3.0
AG 170	Principles of Entomology	3.0
AG 220	Irrigation and Drainage	3.0
		<b>Total: 19.0</b>



# AIR CONDITIONING AND REFRIGERATION TECHNOLOGY - Major (A.S.) and Certificate

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.

## Learning Outcome(s):

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

## 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.

## 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.

## 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

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

## AIR CONDITIONING AND REFRIGERATION TECHNOLOGY Major (A.S.) and Certificate

Thirty (30) units required for the major.

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

### I. Required courses (30.0 units)

Units: 30.0

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 & 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: 30.0

---

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. Required courses (17.0 units)

Units: 17.0

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 & Measurements	2.0
ACR 106	Air Conditioning Ventilation Duct Systems	3.0

Total: 17.0

## AMERICAN SIGN LANGUAGE – Major (A.A.)

American Sign Language is the native language of the Deaf community in the United States and most of Canada. The American Sign Language AA serves as preliminary preparation for a variety of careers in diverse fields such as counseling, education, social work, rehabilitation, and interpretation. This program provides a linguistic and grammatical foundation of ASL, and an in-depth exposure to the American Deaf culture and community.

With additional educational or skills preparation, the student may be able to obtain employment as a caseworker, counselor, educational aide, program coordinator, teacher, or interpreter. Related majors include B.A. in Linguistics, B.A. in ASL Linguistics & Deaf Cultures, B.A. in Deaf Studies, B.A. in Deaf Education, and B.A. in ASL-English Interpretation. Students seeking to transfer should consult a counselor.

### Learning Outcome(s):

1. Ability to interact clearly and effectively in ASL with both hearing and deaf peers, and members of the Deaf community in a variety of settings.
2. Demonstrate cultural sensitivity and knowledge of cultural adjustments necessary when interacting with Deaf community members.
3. Analyze ASL production through written linguistic evaluation of their own videotaped signing samples as well as native ASL users' language samples.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

Case Worker, Certified Translator, Education Counselor, Interpreter: [Business, Conference, Educational, Legal, Medical, Recovery, Religious, Theatrical], Program Coordinator, Rehabilitation Counselor, Speech Therapist, Teacher, Teacher Aide/Educational Assistant

## AMERICAN SIGN LANGUAGE Major (A.A.)

Twenty-eight (28.0) units required for the major.

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

<b>I. Required courses (25.0 units):</b>		<b>Units: 25.0</b>
AMSL 100	American Sign Language 1	4.0
AMSL 102	American Sign Language 2	4.0
AMSL 104	Fingerspelling and Numbers	3.0
AMSL 110	Introduction to Deaf Culture	3.0
AMSL 200	American Sign Language 3	4.0
AMSL 202	American Sign Language 4	4.0
AMSL 220	Linguistics of American Sign Language	3.0
<b>II. Select one course from the following (3.0 units)</b>		<b>Units: 3.0</b>
AMSL 112	Interpreting as a Profession	3.0
AMSL 210	Interpreting American Sign Language 1	3.0
AMSL 212	Interpreting American Sign Language 2	3.0
		<b>Total: 28.0</b>

## ANTHROPOLOGY for TRANSFER – Major (A.A.-T.)

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. Archeology 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.

### Learning Outcome(s):

1. Global Cultural Diversity by recognizing the various social institutions, linguistic diversity, the ways societies have adapted to different environments, and modern and traditional 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 scientific evidence 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

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

## ANTHROPOLOGY FOR TRANSFER Major (A.A.-T.)

### REQUIREMENTS FOR THE MAJOR

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

#### 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)

Units: 13.0

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

Units: 3.0-4.0

GEOL 100	General Geology	4.0
PSY 212	Research Methods in Psychology	3.0

##### C. Select one (3) Units

Units: 3.0

Any course from List B not already used.

AIS 106 (same as ANTH 106)	Indians of North America	3.0
OR		
ANTH 106 (same as AIS 106)	Indians of North America	3.0
ANTH 108 (same as AIS 108)	Indians of the Southwest	3.0
HIST 130	Early Latin America	3.0
HIST 131	Modern Latin America	3.0
HIST 132	History of Mexico	3.0
HIST 160	Middle East from 600	3.0
HIST 220	Women in American History	3.0
HIST 225	Mexican American History	3.0
RELS 100	Religions of the Modern World	3.0

Total: 19.0-20.0

## ART HISTORY for TRANSFER – Major (A.A.-T.)

The Associate in Arts in Art History for Transfer degree prepares students for transfer to four-year colleges and universities and for careers in education, museums, research, and related fields. Students learn the major theories and artistic movements in Art and Architecture from the ancient to the modern world, and evaluate the influences that social, political, and religious institutions have in the creation of art. The program addresses the dynamic fields of both Western and Non-Western Art and Architecture, as well as the critical roles that Photography, Contemporary Art, and Graphic Design have in shaping our society.

### Learning Outcome(s):

1. assess and evaluate the contributions of artists throughout history.
2. use various strategies to evaluate and describe elements of art and visual culture as a basis for lifelong learning in the arts.
3. explain the history of cultures and civilizations and how art and architecture is a reflection of that history.
4. communicate in speech and in writing about the history, theories, disciplines, and practices of the visual arts.

### 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

Art historians with undergraduate degrees are placed as registrars, preparators, and curatorial staff in art museums and galleries; they can also be employed as art critics in mass media publications, such as newspapers and magazines. An advanced degree allows an art historian a wider range of possible career applications, including museums directorships, curators, instructors, preservationists, researchers, and auction house personnel.

## ART HISTORY FOR TRANSFER Major (A.A.-T.)

### REQUIREMENTS FOR THE MAJOR

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

#### 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 (18.0) units required for the major

##### Required courses (9.0 units)

**Units: 9.0**

ART 100	History of Art I	3.0
ART 102	History of Art II	3.0
ART 120	Drawing I	3.0

##### LIST A: Select one course (3.0 units)

**Units: 3.0**

ART 104	History of Modern Art	3.0
---------	-----------------------	-----

##### LIST B: Select one course (3.0 units)

**Units: 3.0**

ART 110	2-D Foundations	3.0
ART 112	3-D Foundations	3.0
ART 124	Painting I	3.0
ART 126	Painting II	3.0
ART 160	Graphic Design	3.0
ART 170	Photography - Beginning	3.0

##### LIST C: Select one course (3.0 units)

**Units: 3.0**

Any LIST A or B course not already used.

HUM 100	Introduction to the Humanities	3.0
---------	--------------------------------	-----

**Total: 18.0**



## AUTOMOTIVE TECHNOLOGY – Major (A.S.) and Certificates

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.

### Learning Outcome(s):

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 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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 • Electrical Specialist • Service Writer • Transmission Specialist • Quick Service Tech • Industrial Technology • Industrial Engineer • Automotive Engineer • Electrical Engineer • Engine Performance/Drivability Specialist

**AUTOMOTIVE TECHNOLOGY Major (A.S.) and Certificates**

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

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

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

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

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

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

## AUTOMOTIVE TECHNOLOGY: FUNDAMENTALS OF AUTOMOTIVE SERVICE

The Automotive Technology: Fundamentals of Automotive Service Certificate is designed to prepare students for entry-level positions in all aspects of the automotive industry with an emphasis in Service Consultant and Parts Specialist. Students will learn customer service skills, parts inventory, and the use of specialty tools. They will inspect, adjust, and replace vehicle parts. The program will provide the necessary skills and knowledge through the use of modern tools and equipment. Upon successful completion of this program, the student will be prepared to take national certification exams (ASE C1 – Service Consultants and P2 – Parts Specialist).

### Outcome(s)

1. Demonstrate skills needed to pass ASE C1 and P2 Certificates

### Career Opportunities

Jobs are available with auto repair shops, dealerships, independent shops, parts departments in customer service and minor repairs in all areas of the automobile. Experienced technicians with leadership ability may advance to shop supervisors, service writers, parts department manager, and service managers.

Eighteen (18.0) units required for the certificate

Units: 18.0

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

AU T 075	Basic Shop Skills	3.0
AU T 085	Automotive Maintenance and Repair	3.0
AU T 130	Automotive Electronics I	3.0
AU T 135	Automotive Techniques and Applications	3.0
AU T 160	Engine Performance Tune-Up	3.0
AU T 170	Engine Diagnosis and Repair	3.0
		<b>Total: 18.0</b>

## AUTOMOTIVE TECHNOLOGY: MAINTENANCE AND BASIC REPAIR

This certificate is designed to prepared students for entry level employment in the area of maintenance and basic repair. Automotive technicians repair and service cars, trucks, and vans, during routine service work, also they inspect, adjust, and replace vehicle parts. . The program will provide the necessary skills and knowledge through the use of modern tools and equipment to performed required maintenance of an automobile. Upon successful completion of this program, the student will be prepared to take national ASE certification exams:

- A2 – Automatic Transmissions
- A3 – Manual Transmissions
- A4 – Steering and Suspension
- A5 – Brakes
- A6 – Automotive Electronics
- A7 – Automotive Air Conditioning

### Outcome(s)

1. Demonstrate the necessary skills to pass ASE exams.

### Career Opportunities

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

Twenty-five (25.0) units required for the certificate

Units: 25.0

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

AU T 125	Automotive Brakes	4.0
AU T 130	Automotive Electronics I	3.0
AU T 155	Suspension & Wheel Alignment	4.0
AU T 160	Engine Performance Tune-Up	3.0
AU T 180	Manual Transmissions and Power Trains	4.0
AU T 210	Automotive Air Conditioning	3.0
AU T 220	Mechanical Automatic Transmissions	4.0
		<b>Total: 25.0</b>

## BEHAVIORAL SCIENCE – Major (A.A.)

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.

### Learning Outcome(s):

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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

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

**BEHAVIORAL SCIENCE Major (A.A.)**

Eighteen (18.0) units required for the major.

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

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

**I. Required courses for the major (18.0 units)****Units: 18.0****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 104 (same as CDEV 104)	Child Growth and Development	3.0
OR		
CDEV 104 (same as PSY 104)	Child Growth and Development	3.0
PSY 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 204	Developmental Psychology: Conception to Death	3.0
PSY 206 (same as SOC 206)	Social Psychology	3.0
OR		
SOC 206 (same as PSY 206)	Social Psychology	3.0
PSY 208	Abnormal Psychology	3.0
PSY 211	Cognitive Psychology	3.0
PSY 212	Research Methods in Psychology	3.0
ADS 220	Practicum	3.0
ADS 221	Practicum	3.0
<b>Sociology and Social Work</b>		
SOC 101	Introduction to Sociology	3.0
SOC 102	Contemporary Social Problems	3.0
SOC 110	Marriage and the Family	3.0
SOC 150	Sociology of Minority Groups	3.0
SOC 206 (same as PSY 206)	Social Psychology	3.0
OR		
PSY 206 (same as SOC 206)	Social Psychology	3.0
AJ 224	Criminology	3.0
SW 220	Introduction to Social Work	3.0

**Total: 18.0**

## BIOLOGY FOR TRANSFER – Major (A.S.-T.)

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.

### Learning Outcome(s):

1. Demonstrate an understanding of fundamental biological concepts and knowledge of the structure and function of living organisms.
2. Display competency with respect to the use of standard laboratory equipment and techniques commonly used in life science labs.
3. Understand the process of scientific research and display critical thinking skills related to hypothesis development, experimentation and data interpretation.

### 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

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

## BIOLOGY FOR TRANSFER Major (A.S.-T.)

### REQUIREMENTS FOR THE MAJOR

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

#### 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. This will allow for completion of 6 units of non-STEM GE work after transfer. The high number of discipline units for this TMC prohibits the traditional transfer pathways. Students seeking this degree should be advised to complete CSU GE STEM or IGETC STEM-CSU in order to fulfill the requirements to be admitted to CSU as a transfer student.

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.

30.0

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

Total: 30.0

## BUILDING CONSTRUCTION TECHNOLOGY – Major (A.S.) and Certificates

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

### Learning Outcome(s):

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 project using a local index.
3. Understand the relationship between tensile strength and compressive strength to understand how they interact under pressure.

### 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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 Estimator • Technical Salesperson • Construction Consultant • Architect • Civil Engineer • Structural Engineer • Environmental Engineer • Construction Scheduler or Planner • Forensic Construction Specialist

### BUILDING CONSTRUCTION TECHNOLOGY Major (A.S.) and Certificate

Twenty-six (26.0) units required for the major.

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

I. Required courses (26.0 units)		Units: 26.0
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 & Materials	3.0
BLDC 145	Concrete Formwork, Layout, & Setting	3.0
BLDC 180	Building Planning and Cost Estimation	3.0
BLDC 185	Concrete Footings, Flatwork, and Detail Work	4.0
		<b>Total: 26.0</b>

Twenty-six (26.0) units required for the certificate.

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

I. Required courses (26.0 units)		Units: 26.0
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 & Materials	3.0
BLDC 145	Concrete Formwork, Layout, & Setting	3.0
BLDC 180	Building Planning and Cost Estimation	3.0
BLDC 185	Concrete Footings, Flatwork, and Detail Work	4.0
		<b>Total: 26.0</b>

### BUILDING CONSTRUCTION TECHNOLOGY: CARPENTRY SPECIALIZATION Certificate

#### Learning Outcome(s):

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.

Thirty-two (32.0) units required for the certificate.

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

I. Course requirements: the major plus six (6.0) additional units in Carpentry course work.		Units: 32.0
The Specialization Certificate demonstrates a completion of coursework in addition to the major in Building Construction Technology.		
BLDC 150	Carpentry Methods, Materials, and Tools	3.0
BLDC 190	Carpentry Trim/Detail Work	3.0
<b>Total Major Units</b>		<b>26.0</b>
		<b>Total: 32.0</b>

## BUSINESS ADMINISTRATION for TRANSFER – Major (A.S.-T.)

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.

### Learning Outcome(s):

1. Evaluate business data and reach reasoned 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

This is a sample of career opportunities available for the business or business-related major. Most require an associate degree, some require a bachelor's degree, a few require a graduate-level degree: administrator, manager, salesperson, banker, financial planner, high school or college instructor, lawyer, small business owner/operator, supervisor, economist, city manager, consumer analyst, purchasing agent, personnel officer, product developer, research auditor, controller, financier and insurance agent. Many entry-level employment opportunities are available in retail or wholesale sales, business offices, banks, savings and loans, hospitals, schools, colleges, and governments.

## BUSINESS ADMINISTRATION FOR TRANSFER Major (A.S.-T.)

### REQUIREMENTS FOR THE MAJOR

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

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

#### 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

#### A. Required for the Major

Units: 17.0

ACCT 210	Principles of Financial Accounting	4.0
ACCT 220	Principles of Managerial Accounting	4.0
BUS 126	Business and the Legal Environment	3.0
ECON 101	Introduction to Micro Economics	3.0
ECON 102	Introduction to Macro Economics	3.0

#### B. Select three/four (3-4) units from:

Units: 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:

Units: 6.0

Any List B course not already used.

CIS 101	Introduction to Information Systems	3.0
		3.0
BUS 124	Introduction to Business	3.0
OR		
BUS 260	Business Communications	3.0

Total: 26.0-27.0

## BUSINESS ADMINISTRATION 2.0 for TRANSFER – Major (A.S.-T.)

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.

### Learning Outcome(s):

1. Evaluate business data and reach reasoned 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

This is a sample of career opportunities available for the business or business-related major. Most require an associate degree, some require a bachelor's degree, a few require a graduate-level degree: administrator, manager, salesperson, banker, financial planner, high school or college instructor, lawyer, small business owner/operator, supervisor, economist, city manager, consumer analyst, purchasing agent, personnel officer, product developer, research auditor, controller, financier and insurance agent. Many entry-level employment opportunities are available in retail or wholesale sales, business offices, banks, savings and loans, hospitals, schools, colleges, and governments.

## BUSINESS ADMINISTRATION 2.0 FOR TRANSFER Major (A.S.-T.)

### REQUIREMENTS FOR THE MAJOR

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

Twenty-seven to twenty-eight (27.0-28.0 units) required for the major.

#### 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

Required Core		Units: 27.0-28.0
ACCT 210	Principles of Financial Accounting	4.0
ACCT 220	Principles of Managerial Accounting	4.0
BUS 126	Business and the Legal Environment	3.0
		3.0
BUS 124	Introduction to Business	3.0
OR		
BUS 260	Business Communications*	3.0
ECON 101	Introduction to Micro Economics	3.0
ECON 102	Introduction to Macro Economics	3.0
MATH 119	Elementary Statistics	4.0
		3.0-4.0
MATH 122	Finite Mathematics	3.0
OR		
MATH 170	Introductory Calculus with Applications*	4.0

Transfer advising notes:

Students must complete MATH 150 with a grade of "C" or higher prior to enrolling in MATH 170.

CIS 101 is highly recommended for students transferring to SDSU.

\*Recommended for SDSU transfer students

Total: 27.0-28.0

## BUSINESS ADMINISTRATIVE ASSISTANT – Major (A.S.) and Certificate

The 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.

### Learning Outcome(s):

1. Demonstrate accuracy and speed in the use of a ten-key calculator
2. Apply effective verbal, nonverbal and written communication in a professional manner.
3. Communicate the importance of soft skills and demonstrate these skills effectively in the workplace.

### 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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 • Secretary • Bookkeeper • Receptionist • Word Processor • Records Manager • Medical Office Assistant (see Allied Health program) • Computer Applications Specialist

## BUSINESS ADMINISTRATIVE ASSISTANT Major (A.S.) and Certificate

Thirty (30) units and skill level required for the major.

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

### I. Required courses for the major (30.0 units)

Units: 30.0

ACCT 210	Principles of Financial Accounting **	4.0
BUS 105	Business Office Math	3.0
BUS 136	Human Relations in Management	3.0
BUS 145	Human Resources Management	3.0
BUS 169	Records and Information 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
CIS 101	Introduction to Information Systems	3.0
WE 201	Employment Readiness*	1.0
WE 220	Internship*	1.0

\*\*It is recommended that ACCT 099 be taken as preparation for ACCT 210.

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

### II. Required skill level for the major

Keyboarding skill level 50 nwpm. (BUS 154, Beginning Keyboarding and Document Formatting and BUS 156, Keyboarding Speed & Accuracy may be helpful in obtaining this skill and speed level.)

Total: 30.0

Twenty-six (26) 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 (26.0 units)

Units: 26.0

ACCT 099	Practical Accounting	3.0
BUS 063	Essentials in Workplace Communication	3.0
BUS 105	Business Office Math	3.0
BUS 136	Human Relations in Management	3.0
BUS 169	Records and Information Management	2.0
BUS 172	Office Procedures for the Workplace	3.0
BUS 180	Microsoft Office Suite for the Workplace	4.0
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 certificate.

### II. Required skill level for the certificate

Keyboarding skill level 50 nwpm. (BUS 154, Beginning Keyboarding and Document Formatting and BUS 156, Keyboarding Speed & Accuracy may be helpful in obtaining this skill and speed level.)

Total: 26.0

## BUSINESS INFORMATION SYSTEMS – Major (A.S.)

The Business Information Systems program is designed for students interested in pursuing a career in business with a focus on information technology. The major satisfies the business sector's need for well-rounded technology professionals. As technology managers, graduates of this program are responsible for delivering information services while cost-effectively administering their organization's information resources and technology. The Business Information Systems program enables graduates to understand the interaction, planning, development, and operations of information systems and information sharing within a business or organization.

This cross-disciplinary program combines topics from our Computer Information Technology degree and our Business Administration degree to create a unique program that gives you the opportunity to blend your passion for technology with your business and leadership skills.

### Learning Outcome(s):

1. Describe the general characteristics of a computer system and identify types of computer hardware and software and explain their functions.
2. Show understanding of accounting applicable to recording and reporting of business transactions and show proficiency utilizing computerized financial software.
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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

• Programmer • Applications Programmer • Systems Programmer • Information Specialist • Programmer Analyst • Software Engineer • Systems Analyst • Systems Integrator • Project Manager • 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 • Applications Specialist • Computing Applications Specialist • Computing Support Specialist

## BUSINESS INFORMATION SYSTEMS Major (A.S.)

Twenty-two to Twenty-three (22.0-23.0) 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 (16.0 units)

Units: 16.0

BUS 124	Introduction to Business	3.0
BUS 126	Business and the Legal Environment	3.0
CIS 101	Introduction to Information Systems	3.0
CIS 160	Computer Hardware and Software	4.0
ECON 101	Introduction to Micro Economics	3.0

### II. Select one course (3.0-4.0) units

Units: 3.0-4.0

ACCT 099	Practical Accounting	3.0
ACCT 210	Principles of Financial Accounting	4.0
ACCT 220	Principles of Managerial Accounting	4.0
ACCT 240	Computer Accounting	3.0
BUS 260	Business Communications	3.0
ECON 102	Introduction to Macro Economics	3.0

### III. Select at least three (3.0) units

Units: 3.0

CIS 115	Microsoft Outlook	1.0
CIS 120	Microsoft Word I	1.0
CIS 121	Microsoft Word II	1.0
CIS 124	EXCEL I	1.0
CIS 125	EXCEL II	1.0
CIS 128	Microsoft Access	1.0
CIS 130	Power Point I	1.0
CIS 131	Power Point II	1.0
CIS 161	Introduction to Cybersecurity: Ethical Hacking	3.0
CIS 162	Computer Network Fundamentals	3.0
CIS 163	Routing and Switching Essentials	3.0
CIS 166	Digital Forensics	3.0
CIS 167	Systems and Network Administration	3.0
CIS 202	Programming Concepts and Methodologies	3.0
CIS 210	Programming in C++	3.0

Total: 22.0-23.0

## BUSINESS MANAGEMENT – Major (A.S.) and Certificate

The Business Management program provides students with education and training needed for entry level supervisory and management positions in areas such as government, retail 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.

### Learning Outcome(s):

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 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

• 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 • Management Consultant • Information Systems Manager • Operations Manager • Production Manager • Safety Manager • Systems Manager • Warehouse Manager • Quality Control Manager • Management and Business

**BUSINESS MANAGEMENT Major (A.S.) and Certificate**

Twenty-five (25.0) units required for the major.

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

<b>I. Required courses 19.0 units:</b>		<b>Units: 19.0</b>
ACCT 210	Principles of Financial Accounting	4.0
BUS 124	Introduction to Business	3.0
BUS 126	Business and the Legal Environment	3.0
BUS 132	Business Management	3.0
BUS 260	Business Communications	3.0
CIS 101	Introduction to Information Systems	3.0
<b>II. Select a minimum of 6.0 units from the following courses:</b>		<b>Units: 6.0</b>
ACCT 099	Practical Accounting	3.0
ACCT 220	Principles of Managerial Accounting	4.0
ACCT 240	Computer Accounting	3.0
BUS 058	Customer Service in the Workplace	3.0
BUS 063	Essentials in Workplace Communication	3.0
BUS 120	Retail Management	3.0
BUS 136	Human Relations in Management	3.0
BUS 144	Principles of Marketing	3.0
BUS 145	Human Resources Management	3.0
BUS 148	Personal Finance	3.0
CIS 124	EXCEL I	1.0
CIS 125	EXCEL II	1.0
ECON 101	Introduction to Micro Economics	3.0
ECON 102	Introduction to Macro Economics	3.0
WE 201	Employment Readiness	1.0
WE 220	Internship	1.0
		<b>Total: 25.0</b>

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.

<b>I. Required courses 19.0 units:</b>		<b>Units: 19.0</b>
ACCT 210	Principles of Financial Accounting	4.0
BUS 124	Introduction to Business	3.0
BUS 126	Business and the Legal Environment	3.0
BUS 132	Business Management	3.0
BUS 260	Business Communications	3.0
CIS 101	Introduction to Information Systems	3.0
<b>II. Select a minimum of 6.0 units from:</b>		<b>Units: 6.0</b>
ACCT 099	Practical Accounting	3.0
ACCT 220	Principles of Managerial Accounting	4.0
ACCT 240	Computer Accounting	3.0
BUS 058	Customer Service in the Workplace	3.0
BUS 063	Essentials in Workplace Communication	3.0
BUS 120	Retail Management	3.0
BUS 136	Human Relations in Management	3.0
BUS 144	Principles of Marketing	3.0
BUS 145	Human Resources Management	3.0
BUS 148	Personal Finance	3.0
CIS 124	EXCEL I	1.0
CIS 125	EXCEL II	1.0
ECON 101	Introduction to Micro Economics	3.0
ECON 102	Introduction to Macro Economics	3.0
WE 201	Employment Readiness	1.0
WE 220	Internship	1.0
		<b>Total: 25.0</b>

## BUSINESS OFFICE TECHNICIAN – Major (A.S.) and Certificate

The Business Office Technician 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.

### Learning Outcome(s):

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 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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 • Secretary • Bookkeeper • Receptionist • Word Processor • Records Manager • Medical Office Assistant (See Allied Health program) • Computer Applications Specialist

## BUSINESS OFFICE TECHNICIAN Major (A.S.) and Certificate

Twenty-nine (29) units and skill level required for the major.

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

### I. Required courses for the major (29.0 units)

Units: 29.0

BUS 058	Customer Service in the Workplace	3.0
BUS 059	Practical English for the Workplace	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 and Information 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 completion of at least 12 units in the major.

### II. 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: 29.0

Twenty-six (26) units and skill level required for the certificate.

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

### I. Required courses for the certificate (26.0 units)

Units: 26.0

BUS 058	Customer Service in the Workplace	3.0
BUS 059	Practical English for the Workplace	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 and Information 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 completion of at least 12 units in the major.

### II. 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: 26.0

## CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION BREADTH (CSU GE-B) – Certificate

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.

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.

### **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](http://www.imperial.edu/students/financial-aid-and-scholarships)

**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.

<b>CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION BREADTH (CSU GE-B) REQUIREMENTS</b> For specific course identifications that clear the CSU GE-B requirements for each section, please see a Counselor for assistance.	
<b>AREA A - ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING</b> (9 semester or 12-15 quarter units)	<b>Minimum Units Required Per Area</b>
<b>Area A1:</b> Oral Communication (3 semester/4-5 quarter units)	3
<b>Area A2:</b> Written Communication (3 semester/4-5 quarter units)	3
<b>Area A3:</b> Critical Thinking (3 semester/4-5 quarter units)	3
<b>AREA B - SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING</b> Minimum: 9 semester or 12-15 quarter units with at least one lab course from either area	
<b>Area B1:</b> Physical Science - One course required	3
<b>Area B2:</b> Life Science - One course required	3
<b>Area B3:</b> Laboratory Activity - One Course required (see Area B1 and B2 for a laboratory course)	
<b>Area B4:</b> Mathematics/Quantitative Reasoning - One Course required	3
<b>AREA C - ARTS AND HUMANITIES - Nine (9) semester or 12-15 quarter units</b> Three (3) courses, with at least one course from the Arts and one Course from the Humanities. The third course from either area.	
<b>Area C1:</b> Arts; <b>Area C2:</b> Humanities; <u>and</u> , one more course from either Area C1 <u>or</u> C2.	9
<b>AREA D - SOCIAL SCIENCE</b> Nine (6) semester or 9-12 quarter units. Two courses from two different disciplines recommended.	
<b>Area D:</b> Social Science, Behavioral Science, Political and Economic Institutions	6
<b>AREA E - LIFELONG UNDERSTANDING AND SELF-DEVELOPMNET</b> One Course (3 semester/4-5 quarter units)	
<b>Area E:</b> Lifelong Understanding and Self-Development	3
<b>AREA F - ETHNIC STUDIES</b> One Course (3 semester/4-5 quarter units)	
<b>Area F:</b> American Indian, Anthropology, Chicana/o Studies	3
<b>CSU Graduation Requirement - Not part of certificate completion. May be completed prior to transfer.</b>	
<b>American Institutions (AI) - U.S. History, Constitution and American Ideals</b>	
<b>TOTAL MINIMUM UNITS REQUIRED</b>	<b>39</b>

**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.

## CARE OF THE ELDERLY FOR THE HEALTH ASSISTANT – Certificate

This program will prepare students for entry-level careers working with older adults. Students who complete the four courses and receive the Care of the Elderly for the Health Assistant Certificate of Achievement may qualify for entry into high demand occupations such as Certified Nurse Assistant (CNA), Home Health Aide (HHA), Caregiver, Resident Care Provider and In-Home Supportive Services care provider.

### Learning Outcome(s):

1. discuss the physiological, psychological, and sociological changes associated with aging.
2. articulate how healthy behaviors and lifestyle choices lead to wellness in older adults.
3. apply effective communication skills in relating to older adults with dementia or disabilities.
4. verbalize how to recognize and report elder neglect and abuse.

### 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](http://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.

- Human Services • Nursing Homes • Health Care and Long-Term Institutional Care • Social Worker • Nursing Aid • Social Scientist • Healthcare Manager

### CARE OF THE ELDERLY FOR THE HEALTH ASSISTANT Certificate

Eleven (11.0) units required for the certificate

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

Required courses		11.0
AHP 032	Introduction to Working with Older Adults	2.0
AHP 033	Care of the Elderly	2.0
AHP 060	Health Assistant	5.5
AHP 062	Home Health Aide	1.5

Total: 11.0



## CHEMISTRY FOR TRANSFER – Major (A.S.-T.)

Chemistry is the study of matter and its transformations. This curriculum provides the beginning basics of a two-year transfer program with emphasis on the chemical nature of matter. This program fulfills the lower division requirements for such majors as chemistry, dentistry, medicine, pharmacy, and environmental science.

### Learning Outcome(s):

5. Demonstrate critical thinking skills related to the scientific methods such as hypothesis development, experimentation, and data interpretation.
6. Articulate fundamental chemical concepts and knowledge as related to natural and chemical phenomena at large.
7. Perform experiments using standard laboratory glasswares and techniques used in the chemical sciences.

### 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

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

• Agrochemistry • Analytical Chemistry • Astrochemistry • Atmospheric Chemistry • Biochemistry • Biotechnology • Chemical Engineering • Chemical Technology • Chemical Sales • Environmental Chemistry • Ethnobotany • Food Chemistry • Forensic Science • Materials Science • Medicine • Oceanography • Organic Chemist • Pharmaceuticals • Physical Chemistry • Plastics Industry • R&D Management • Science Writer • Surface Chemistry • Science Teacher • Textile Industry

## CHEMISTRY FOR TRANSFER Major (A.S.-T.)

### REQUIREMENTS FOR THE MAJOR

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

#### 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 the Intersegmental General Education Transfer Curriculum for STEM (IGETC) – 31 units minimum. This will allow for completion of 6 units of non-STEM GE work after transfer. The high number of discipline units for this TMC prohibits the traditional CSU GE Breadth pathway. Students seeking this degree should be advised to complete IGETC STEM-CSU in order to fulfill the requirements to be admitted to CSU as a transfer student.

#### III. Thirty-six (36.0 units) required for the major

36.0

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
MATH 192	Analytic Geometry and Calculus I	4.0
MATH 194	Analytic Geometry and Calculus II	4.0
PHYS 200	General Physics I	4.0
PHYS 202	General Physics II	4.0

Total: 36.0

## CHICANA/O STUDIES – Major (A.A.)

The Chicana/o Studies Associate in Arts degree program provides courses in the social sciences, humanities, and academic skills such as writing and oral communication with a focus on the US-Mexico borderlands and the Chicano, Mexicano, other Latino communities within the United States. Students will learn to critically analyze society's assumptions about race, class, gender, ethnicity, and other factors of self-identification which influence the history and culture of various Latino peoples in the United States.

The Chicana/o Studies degree provides optimal preparation for students intending to transfer to a four-year university to pursue additional education in the field and who are interested in careers in education, humanities, history, anthropology, ethnology, sociology, psychology, social sciences, political sciences, social work, business, the arts, and private sector and public administration.

### Learning Outcome(s):

1. Students will draw on diverse social, historical, economic and cultural perspectives to evaluate the historical and contemporary conditions, issues, and challenges facing diverse Mexican descent populations.
2. Students will analyze the impact of the social construction of race, class, gender, and sexuality as related to diverse Chicana/o, and Latina/o communities in national contexts.
3. Students will evaluate the applicability and relevance of theories and approaches to Chicana/o experiences and to the discipline.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

Public Administration, Social Work, Teaching, International Business

**CHICANA/O STUDIES Major (A.A.)****Eighteen to Twenty(18.0-20.0) units required for the major.****Units: 18.0-20.0**

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

<i>Required Courses (9.0 units):</i>		<b>9.0</b>
CHIC 100	Introduction to Chicana/o Studies	3.0
CHIC 110	Chicana/o Heritage	3.0
CHIC 180 (same as SOC 180)	La Chicana	3.0
<i>List A Select one course (3.0 units):</i>		<b>3.0</b>
HIST 130	Early Latin America	3.0
HIST 131	Modern Latin America	3.0
HIST 132	History of Mexico	3.0
HIST 225	Mexican American History	3.0
<i>List B Select two courses (6.0-8.0 units):</i>		<b>6.0-8.0</b>
ANTH 106 (same as AIS 106)	Indians of North America	3.0
ANTH 108 (same as AIS 108)	Indians of the Southwest	3.0
COMM 150	Intercultural Communication	3.0
ENGL 257	Survey of Chicana/o Literature	3.0
GEOG 140	California Geography	3.0
HIST 222	History of California	3.0
SOC 150	Sociology of Minority Groups	3.0
SPAN 200	Intermediate Spanish I	5.0
OR		
SPAN 220	Spanish for Heritage Speakers I	5.0
SPAN 225	Introduction to Spanish American Literature	3.0
		<b>Total: 18.0-20.0</b>

## CHILD DEVELOPMENT – Major (A.S.) and Certificates

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 Infant/Toddler, School Age, and Administration. 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 CDE Department.

### Learning Outcome(s):

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

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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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. Some positions however require a four-year degree for which IVC's program is a good base for transfer.

• 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

## CHILD DEVELOPMENT Major (A.S.)

**Thirty to Thirty-One (30-31) 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 units)

**Units: 26.0**

CDEV 100	Principles and Practices of Teaching Young Children	3.0
CDEV 101	Health, Safety and Nutrition	3.0
CDEV 102	First Aid and CPR for Teachers of Young Children	1.0
CDEV 103	Child, Family and Community	3.0
		3.0
CDEV 104	Child Growth and Development	3.0
(same as PSY 104)		
OR		
PSY 104	Child Growth and Development	3.0
(same as CDEV 104)		
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 (4) to five (5) units from the following:

**Units: 4.0-5.0**

CDEV 120	Language and Literature for Young Children	2.0
CDEV 121	Art/Visual Arts for Young Children	2.0
CDEV 122	Science and Math for Young Children	2.0
CDEV 123	Music and Movement/Performing Arts for Young Children	2.0
CDEV 124	Creative Cooking for Children	2.0

**Total: 30.0-31.0**

## CHILD DEVELOPMENT ASSOCIATE TEACHER 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.

### Learning Outcome(s):

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.

Sixteen (16.0) units required for the certificate.

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

<i>I. Required courses for the certificate.</i>		16.0
CDEV 101	Health, Safety and Nutrition	3.0
CDEV 102	First Aid and CPR for Teachers of Young Children	1.0
CDEV 103	Child, Family and Community	3.0
<i>Select one from either CDEV 104 or PSY 104</i>		3.0
CDEV 104	Child Growth and Development	3.0
OR		
PSY 104	Child Growth and Development	3.0
CDEV 105	Introduction to Curriculum	3.0
CDEV 106	Observation and Assessment	3.0

Total: 16.0

## CHILD DEVELOPMENT ADMINISTRATION SPECIALIZATION Certificate

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 program.

### Learning Outcome(s):

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.

Thirty-Nine to Forty (39.0-40.0) units required for the certificate.

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

<i>I. The major plus nine (9) additional units in Administration.</i>		39.0-40.0
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

Total: 39.0-40.0

## CHILD DEVELOPMENT CHILDREN WITH SPECIAL NEEDS SPECIALIZATION Certificate

This certificate has been designed to meet the needs of those students who are interested in working with children birth to eight with special needs and those who may be at risk. Students completing this certificate gain expertise in early intervention and early special education with an inclusive and family focused perspective.

The certificate requires the completion of the major plus the six specialization units qualifying the student for the California Credentialing Child Development Master Teacher Permit.

### Learning Outcome(s):

1. Design and implement strategies that support and empower families, promote inclusion and a sense of belonging for all children.
2. Use observations, documentation, assessment, and intervention strategies that support collaborative practices to reach the full potential of all children.
3. Demonstrate an understanding of young children's diverse developmental characteristics, needs, abilities, and multiple interacting influences to create curriculum and environments that challenge and support individualized learning.
4. Summarize laws, regulations, ethical standards, and referral processes.

Thirty-Six to Thirty-Seven (36.0-37.0) units required for the certificate.

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

<i>I. The major plus six (6) units in Children With Special Needs courses:</i>		36.0-37.0
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

Total: 36.0-37.0

## CHILD DEVELOPMENT INFANT/TODDLER SPECIALIZATION Certificate

The Infant/Toddler Specialization Certificate is a certificate demonstrating a completion of specialized course work above the major in Infant/Toddler studies. This certificate will also meet the requirements for the specialization field in applying for the Master Teacher Permit.

### Learning Outcome(s):

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 of health, safety, environmental design, curriculum, and social emotional development.
3. Understands the importance of establishing positive child, family, and provider relationships.

Thirty-Six to Thirty-Seven (36.0-37.0) units required for the certificate.

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

<i>I. The major plus six (6) units in Infant/Toddler course work.</i>		36.0-37.0
CDEV 220	Infant Toddler Development	3.0
CDEV 221	Infant Toddler Curriculum	3.0
Total Major Units		30.0-31.0

Total: 36.0-37.0



## COMMUNICATION STUDIES for TRANSFER – Major (A.A.-T.)

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.

### Learning Outcome(s):

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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine**

**[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information**

**[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information**

**[www.aiccu.edu](http://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](http://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. Some positions however require a four-year degree for which IVC's program is a good base for transfer.

Community Relations Director ~ Organizational Trainer ~ Organizational Newsletter Editor ~ Public Information Specialist ~ Media Technician ~ Organizational Consultant ~ Organizational Trainer and Developer ~ Personnel Staff ~ Public Service Agency Staff ~ Corporate Media Director ~ Communication Consultant ~ Public Relations Professional ~ Video Editor ~ Video Producer or Director ~ Health Educator ~ Fund Raiser ~ Media Sales and Promotion Staff ~ 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

## COMMUNICATION STUDIES FOR TRANSFER Major (A.A.-T.)

### REQUIREMENTS FOR THE MAJOR

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

#### 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.

##### Required for the Major (3.0) units

Units: 3.0

COMM 100	Oral Communication	3.0
----------	--------------------	-----

##### A. Select six (6.0) units from:

Units: 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 (6.0) units from:

Units: 6.0

\*Any List A course not already used. 3.0

COMM 150	Intercultural Communication	3.0
----------	-----------------------------	-----

##### C. Select three (3.0) units from:

Units: 3.0

\*Any List A or B course not already used. 3.0

ANTH 102	Cultural Anthropology	3.0
----------	-----------------------	-----

		3.0
--	--	-----

ENGL 102	Introduction to Literature	3.0
----------	----------------------------	-----

OR

ENGL 201	Advanced Composition	3.0
----------	----------------------	-----

PSY 101	Introduction to Psychology	3.0
---------	----------------------------	-----

SOC 101	Introduction to Sociology	3.0
---------	---------------------------	-----

Total: 18.0

## COMPUTER INFORMATION TECHNOLOGY – Major (A.S.) and Certificate

Computer Information Technology is the use and study of computers, networks, computer languages, and computer systems within an organization to solve real problems. The major prepares students for application programming, networking, systems administration, system security, computer hardware and software, and operating systems.

In this major, students learn about the theory, organization and process of information collection, transmission and utilization through computers. Students learn how to analyze user needs and how to plan, design, develop, implement, and manage networks and computer systems.

### Learning Outcome(s):

1. Ability to identify and troubleshoot computer hardware and software issues.
2. Ability to secure a computer system and deploy monitoring strategies to maintain security protocols.
3. Apply programming concepts and methodologies to produce applications.

### 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

Computer & Information Sciences, Computer Programming, Computer Software & Media Applications, Computer System Administration, Computer System Networking & Telecommunication, Computer Systems Analysis, Data Entry & Microcomputer Application, Electrical Equipment Installation/Maintenance/Repair, Applications Programmer, Systems Programmer, Information Specialist, Information Processing/Data Entry Technology, Information Science & Studies, Management Information Systems/Services

## COMPUTER INFORMATION TECHNOLOGY Major (A.S.) and Certificate

Twenty-five to Twenty-six (25.0-26.0) 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 (16.0 units): Units: 16.0

CIS 101	Introduction to Information Systems	3.0
CIS 160	Computer Hardware and Software	4.0
CIS 161	Introduction to Cybersecurity: Ethical Hacking	3.0
CIS 162	Computer Network Fundamentals	3.0
CIS 202	Programming Concepts and Methodologies	3.0

### II. Select two courses from the following (6.0 units): Units: 6.0

CIS 163	Routing and Switching Essentials	3.0
CIS 166	Digital Forensics	3.0
CIS 167	Systems and Network Administration	3.0
CIS 210	Programming in C++	3.0

### III. Select one course (3.0-4.0 units) from the following: Units: 3.0-4.0

MATH 119	Elementary Statistics	4.0
MATH 122	Finite Mathematics	3.0
MATH 150	College Algebra	4.0
MATH 170	Introductory Calculus with Applications	4.0
MATH 192	Analytic Geometry and Calculus I	4.0

Total: 25.0-26.0

---

### Twenty-two units required courses for the certificate (22.0 units)

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

### I. Required courses (16.0 units) Units: 16.0

CIS 101	Introduction to Information Systems	3.0
CIS 161	Introduction to Cybersecurity: Ethical Hacking	3.0
CIS 160	Computer Hardware and Software	4.0
CIS 162	Computer Network Fundamentals	3.0
CIS 202	Programming Concepts and Methodologies	3.0

### II. Select two courses (6.0 units) from the following: Units: 6.0

CIS 163	Routing and Switching Essentials	3.0
CIS 166	Digital Forensics	3.0
CIS 167	Systems and Network Administration	3.0
CIS 210	Programming in C++	3.0

Total: 22.0

## COMPUTER NETWORKING – Certificate

The Computer Networking 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.

### Learning Outcome(s):

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.

### 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](http://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. Some positions however require a four-year degree for which IVC's program is a good base for transfer.

• Programmer • Applications Programmer • Systems Programmer • Information Specialist • Programmer Analyst • Software Engineer • Systems Analyst • Systems Integrator • Project Manager • 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 • Computing Applications Specialist

### COMPUTER NETWORKING Certificate

Ten (10.0) 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 units)		Units: 10.0
CIS 160	Computer Hardware and Software	4.0
CIS 162	Computer Network Fundamentals	3.0
CIS 163	Routing and Switching Essentials	3.0
		Total: 10.0

## COMPUTER SCIENCE for TRANSFER – Major (A.S.-T.)

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.

### Learning Outcome(s):

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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

• 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 Product Support Personnel • Technical Sales and Marketing Specialist • Management Information Specialist • Scientific Application Programmer • Computer Operations Manager • Computer Services Coordinator • Data Communications Manager • Computer Graphics Specialist

## COMPUTER SCIENCE FOR TRANSFER Major (A.S.-T.)

### REQUIREMENTS FOR THE MAJOR

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

#### 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. Required Courses for the Major (28 units)

Units: 28.0

CS 221	Introduction to Object Oriented Programming in Java	3.0
CS 231	Introduction to Data Structures	3.0
CS 240	Discrete 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
PHYS 200	General Physics I	4.0
		4.0
PHYS 202	General Physics II	4.0
OR		
BIOL 182	General Biology: Principles of Organismal Biology	4.0

Total: 28.0

## CORRECTIONAL SCIENCE – Major (A.S.) and Certificate

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.

### Learning Outcome(s):

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 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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: • Transit and Railroad Police • Fire Inspectors • Fire Investigators • Bailiffs • Jailors • Police Detectives • Criminal Investigators • Special Agents • Immigration Inspectors • Customs Inspectors • Sheriffs • Deputy Sheriffs • Private Detectives • Investigators



## CORRECTIONAL SCIENCE Major (A.S.) and Certificate

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.

<b>I. Required courses for the major (15.0 units)</b>		<b>15.0</b>
AJ 108	Public Safety Report Writing	3.0
CSI 100	Introduction to Correctional Systems	3.0
CSI 104	Concepts of Probation and Parole	3.0
CSI 206	Correctional Interviewing and Counseling	3.0
CSI 208	Control and Supervision of Inmates	3.0
<b>II. Select nine (9) units from the following courses:</b>		<b>9.0</b>
AJ 100	Introduction to the 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	3.0
AJ 223	Juvenile Control	3.0
		<b>Total: 24.0</b>

Twenty-five to Twenty-six (25.0-26.0) units required for the certificate.

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

<b>I. Required courses for the certificate (19.0-20.0 units)</b>		<b>19.0-20.0</b>
AJ 108	Public Safety Report Writing	3.0
CSI 100	Introduction to Correctional Systems	3.0
CSI 104	Concepts of Probation and Parole	3.0
CSI 206	Correctional Interviewing and Counseling	3.0
CSI 208	Control and Supervision of Inmates	3.0
<b>Select one:</b>		<b>4.0-5.0</b>
ENGL 105	Intensive Composition and Reading	5.0
OR		
ENGL 110	Composition and Reading	4.0
<b>II. Select six (6.0) units from the following courses:</b>		<b>6.0</b>
AJ 100	Introduction to the 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	3.0
AJ 223	Juvenile Control	3.0
		<b>Total: 25.0-26.0</b>

## CORRECTIONAL SCIENCE: CORRECTIONS OFFICER – Certificate

The Correctional Science: Corrections Officer Certificate program offers curriculum to prepare students with knowledge and skills necessary to complete the correctional officer academy. Students will gain competence in oral communication in the interview process, competence in the knowledge, skills and abilities necessary for entry level job performance. Students completing this certificate will attain jobs in county correctional facilities (jails and detention facilities). Certification is applicable statewide.

### Learning Outcome(s):

1. Students will successfully pass written, physical, and defensive tactics examinations.

### 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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

County correctional facilities (jails and detention facilities)

### CORRECTIONAL SCIENCE: CORRECTIONS OFFICER Certificate

**Sixteen (16) 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 (16 units)		Units: 16.0
AJ 108	Public Safety Report Writing	3.0
AJ 141	Arrest and Firearms	3.5
CSI 055	Corrections Officer Core Course	9.5
		Total: 16.0

## CYBERSECURITY – Major (A.S.) and Certificate

The Cybersecurity degree and certificate will prepare students for careers in cybersecurity, computer networking, information technology, system administration and related fields. Students will learn how to maintain an organization's information technology workflow and keeps its lines of communication open and secure. Skills taught in the program will allow students to be responsible for the upkeep, configuration, security, and reliable operation of computer systems; especially multi-user computers, such as servers. Students will learn all facets of system security; from authentication to software updates, anti-virus protection, and system modifications—system security is a key component to a device operating at its optimum. Best practices to help mitigate various security concerns will also be covered.

The Cybersecurity program will serve as preparation for the following industry certifications: A+, Network+, Security+, Microsoft Certified Technician (MCT) in Windows and Windows Server, Cisco Certified Network Associate (CCNA), & Cisco Certified Technician (CCT). Students will be able to transfer to partner 4 years institutions to pursue their bachelor's degree in related studies.

### Learning Outcome(s):

1. Utilize security tools to secure a network.
2. Properly diagnose security breaches and respond appropriately.
3. Identify and troubleshoot computer hardware and software related issues.
4. Identify and troubleshoot computer hardware and software related issues.

### 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

**CAREER OPPORTUNITIES**

Security Analyst, Security Architect, Security Software Designer, Security Engineer, Cryptanalyst, Security Administrator, Cryptographer, Security Consultant

**CYBERSECURITY Major (A.S.) and Certificate**

Twenty-five to Twenty-six (25.0-26.0) 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 major (22.0 units).</i>		22.0
CIS 101	Introduction to Information Systems	3.0
CIS 159	Windows Operating Systems	3.0
CIS 160	Computer Hardware and Software	4.0
CIS 161	Introduction to Cybersecurity: Ethical Hacking	3.0
CIS 162	Computer Network Fundamentals	3.0
CIS 166	Digital Forensics	3.0
CIS 167	Systems and Network Administration	3.0
<i>Select one course (3.0-4.0 units) from the following:</i>		3.0-4.0
MATH 119	Elementary Statistics	4.0
MATH 122	Finite Mathematics	3.0
MATH 150	College Algebra	4.0
MATH 170	Introductory Calculus with Applications	4.0
MATH 190	Pre-Calculus	5.0
		<b>Total: 25.0-26.0</b>

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>I. Required courses for the certificate.</i>		22.0
CIS 101	Introduction to Information Systems	3.0
CIS 159	Windows Operating Systems	3.0
CIS 160	Computer Hardware and Software	4.0
CIS 161	Introduction to Cybersecurity: Ethical Hacking	3.0
CIS 162	Computer Network Fundamentals	3.0
CIS 166	Digital Forensics	3.0
CIS 167	Systems and Network Administration	3.0
		<b>Total: 22.0</b>

## DIESEL FARM MACHINERY AND HEAVY EQUIPMENT TECHNICIAN – Certificate

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 locomotives 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 available 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).

### Learning Outcome(s):

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.

### 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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

Farm Equipment Technician, Bus Maintenance and Repair Technician, Heavy Equipment Maintenance and Repair Technician, Diesel Truck Maintenance and Repair Technician

### DIESEL FARM MACHINERY AND HEAVY EQUIPMENT TECHNICIAN Certificate

Twenty-three (23.0) units required for the certificate.

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

<i>I. Required for the certificate.</i>		23.0
AU T 110	Engine Technology	4.0
AU T 120	Automotive Machine Shop	4.0
AU T 140	Diesel Engine Maintenance and Repair	4.0
AU T 165	Diesel Preventive Maintenance And Inspection	4.0
AU T 240	Diesel Engine Tune-Up	3.0
AU T 245	Hydraulic and Pneumatic Systems	4.0

Total: 23.0

## DIGITAL DESIGN AND PRODUCTION – Major (A.S.) and Certificate

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 entry-level competencies for employment which requires knowledge to produce a variety of computer, Web, and/or multimedia graphics, sound and video production, and/or content materials. The program provides students with the ability to freelance or work from within small design firms to develop web pages and multimedia for small or large businesses.

### Learning Outcome(s):

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 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

## CAREER OPPORTUNITIES

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

• Background Artist • Content Development • Digital Artist • Game Artist • Graphics Production • Information Architect • Instructional Designer • Interface Design • Layout Design • Production Assistant • Product Modeling • Storyboard Artist • Video Designer • Video Editing • Video Production Assistant • Webmaster • Web Page Designer • Web/Multimedia Development • Web/Multimedia Programming

## DIGITAL DESIGN AND PRODUCTION Major (A.S.) and Certificate

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

Units: 18.0

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 151	Digital Video Production	3.0
CIS 180	Advanced Computer Graphics	3.0
		Total: 18.0

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

Units: 18.0

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 151	Digital Video Production	3.0
CIS 180	Advanced Computer Graphics	3.0
		Total: 18.0

## EARLY CHILDHOOD EDUCATION for TRANSFER – Major (A.S.-T.)

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.

### Learning Outcome(s):

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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

Please note that many of the career possibilities listed below require additional education beyond a baccalaureate degree.

Adoption Counselor, Before and After School Teacher/Director, Child Life Specialist, Community College Instructor, Counselor with a choice of specializations – Career, Community, Marriage, Family and Child, or School, Early Childhood Special Education Specialists, Elementary School Teacher, Employer-Sponsored Child Care Teacher/Director, Infant Day Care Teacher/Director, Parent Education Instructor, Pediatric Psychologist, Preschool Teacher or Administration, Resource and Referral Coordinator, Social Worker



## EARLY CHILDHOOD EDUCATION FOR TRANSFER Major (A.S.-T.)

### REQUIREMENTS FOR THE MAJOR

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

#### 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-five (25.0) units required for the major:

**Units: 25.0**

CDEV 100	Principles and Practices of Teaching Young Children	3.0
CDEV 101	Health, Safety and Nutrition	3.0
CDEV 103	Child, Family and Community	3.0
CDEV 104 (same as 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: 25.0**

## ECONOMICS for TRANSFER – Major (A.A.-T.)

Economics is the study of how individuals and societies choose to use limited resources for production of goods and services and how they distribute them for current and future consumption. Economics is divided into two major areas: macroeconomics and microeconomics. Macroeconomics studies decision-making at the national level. Macroeconomics topics include gross domestic product, unemployment, inflation, and money and banking. Microeconomics studies decision-making at the individual household, business firm, and industry levels. Microeconomics topics include supply and demand, theories of the firm and consumer behaviors.

### Learning Outcome(s):

1. Demonstrate an understanding of current economic models and use economic reasoning skills to evaluate real world problems.

### 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

Investment banker, Financial Analyst, Insurance Broker, Consultant, Economic Analyst, Litigation Analysis, Forensic Economics, Statistician

## ECONOMICS FOR TRANSFER Major (A.A.-T.)

### REQUIREMENTS FOR THE MAJOR

#### 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

Twenty to Twenty-two (20.0-22.0) units required for the major

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

#### Required courses for the major (14.0 units) 14.0

ECON 101	Introduction to Micro Economics	3.0
ECON 102	Introduction to Macro Economics	3.0
MATH 119	Elementary Statistics	4.0
<i>Select one from either MATH 170 or MATH 192</i>		4.0
MATH 170	Introductory Calculus with Applications	4.0
OR		
MATH 192	Analytic Geometry and Calculus I	4.0

#### LIST A: Select one course (3.0-4.0 units) 3.0-4.0

ACCT 210	Principles of Financial Accounting	4.0
ACCT 220	Principles of Managerial Accounting	4.0
BUS 260	Business Communications	3.0
CIS 101	Introduction to Information Systems	3.0
MATH 122	Finite Mathematics	3.0
MATH 194	Analytic Geometry and Calculus II	4.0

#### LIST B: Select one course (3.0-4.0 units) 3.0-4.0

Any LIST A course not already used.

MATH 210	Multivariable Calculus	4.0
MATH 230	Introduction to Linear Algebra with Applications	3.0

Total: 20.0-22.0

## ELECTRICAL TECHNOLOGY – Major (A.S.) and Certificates

The Electrical Technology major is designed to provide students with the comprehensive and manipulative skills, technical knowledge, and related trade information required to become technicians or operators in industrial, 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 on any or all disciplines, 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.

### Learning Outcome(s):

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 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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. Some positions however require a four-year degree for which IVC's program is a good base for transfer.

Electrical Installer, Commercial Electrical Installer, Industrial Electrical Installer, Electrical Maintenance Technician, Electrician, Residential Electrical Installer, Electrical and Electronic Engineering Technician, Home Automation Installer and Repair Technician, Security and Fire Alarm Systems Installer, Programmable Logic Controller Technician

### ELECTRICAL TECHNOLOGY Major (A.S.)

Twenty (20) units required for the major

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

I. Required courses for the major		Units: 20.0
BLDC 101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0
EWIR 110	Electrical Principles	4.0
EWIR 115	Electrical Wiring and Protection	4.0
ELTR 120	Electronic Devices	4.0
ELTR 140	Electronic Circuits & Semiconductors	4.0
WE 201	Employment Readiness	1.0
		Total: 20.0

### ELECTRICAL TECHNOLOGY: GENERAL ELECTRICIAN Certificate

The General Electrician certificate is designed to prepared student's skills in residential, commercial, industrial, and voice/data/video (VDV) in the construction electrician industry. Once the student finishes this program, he or she will qualify to seek employment in the electrical and energy sector anywhere in the State. The General Electrician program uses The National Center for Construction Education Research (NCCER) curricula that includes competency-based assessments. NCCER is a national industry-recognized credential with Department of Apprenticeship Standards.

#### Learning Outcome(s):

1. Student will be prepared with elements of professional conduct, responsibilities, understand and demonstrate to become an all-around electrician in residential, commercial, industrial, and voice/data/video (VDV) wiring system.

Thirty (30) units required for the certificate.

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

I. Required courses for the certificate		Units: 30.0
BLDC 101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0
EWIR 090	Low Voltage Systems	3.0
EWIR 110	Electrical Principles	4.0
EWIR 115	Electrical Wiring and Protection	4.0
EWIR 125	Electrical Feeder Service & Circuits	4.0
EWIR 135	Electrical Equipment and Special Conditions	4.0
EWIR 162	Programmable Logic Controllers	3.0
ELTR 120	Electronic Devices	4.0
WE 220	Internship	1.0
		Total: 30.0

## ELECTRICAL TECHNOLOGY: RESIDENTIAL ELECTRICIAN Certificate

The Residential Electrician certificate provides opportunity for students interested in working in the residential construction and building maintenance industries. Students will obtain skills and fundamental theories in all elements of electrical residential construction including the installation of service entrance equipment, branch circuit conductors, device boxes, panel enclosures, overcurrent protective device (circuit breakers), lighting, smoke detectors, fixtures, low voltage and residential solar roof top & electrical solar system installation. The Residential Electrician program uses the National Center for Construction Education Research (NCCER) curricula that includes competency-based assessments. NCCER is a national industry-recognized credential with the Department of Apprenticeship Standards (ADS). Students completing this certificate will be able to register with the Department of Apprenticeship Standards as an Electrician Trainee (ET).

### Learning Outcome(s):

1. Student will understand and be prepared to be successful in a career as a Residential Construction Electrician by demonstrating skills such as installing residential solar panels, wiring of single family residential homes, and ability to install inverters.

**Twenty-six (26) units required for the certificate.**

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

I. Required courses for the certificate		Units: 26.0
BLDC 101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0
ELTR 120	Electronic Devices	4.0
ELTR 140	Electronic Circuits & Semiconductors	4.0
EWIR 110	Electrical Principles	4.0
EWIR 115	Electrical Wiring and Protection	4.0
RNEW 150	Solar Energy Systems PV1	3.0
RNEW 151	Solar Electrical Systems PV2	3.0
WE 220	Internship	1.0
		Total: 26.0

## ELECTRICAL TECHNOLOGY: LOW VOLTAGE SYSTEMS TECHNICIAN Certificate

This certificate provides opportunities for students interested in the installation in both residential and commercial settings, maintenance and repair of a broad spectrum of electronic-based equipment classified as low voltage. The Low Voltage Systems Technician (LVST) also installs remote monitoring systems in commercial applications and can retrofit current systems with remote monitoring technology. The LVST program uses The National Center for Construction Education Research (NCCER) curricula that includes competency-based assessments. NCCER is a national industry-recognized credential with the Department of Apprenticeship Standards.

### Learning Outcome(s):

1. Understand and demonstrate the necessary skills to become employed in the alarm, telecommunications, and entertainment electronics industries.

I. Required courses for the certificate (16 units)		Units: 16.0
ALL COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.		
BLDC 101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0
EWIR 090	Low Voltage Systems	3.0
EWIR 092	Smart Home Instrumentation	3.0
EWIR 094	Wireless Telecommunications	3.0
EWIR 096	Fiber Optics	3.0
WE 220	Internship	1.0
		Total: 16.0

## ELECTRICAL TRADES – Major (A.S.) and Certificate

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

### Learning Outcome(s):

1. Demonstrate knowledge of OSH standard safety procedures appropriate to the power utility industry. In addition, the student will use mathematical functions pertaining to 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 introduction to framing, setting, guying poles, installation of conductors and grounds and the laying out and constructing of an underground line system.

### 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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. Some positions however require a four-year degree for which IVC's program is a good base for transfer.

• 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

## ELECTRICAL TRADES Major (A.S.) and Certificate

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

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

### I. Required courses for the major

**Units: 19.0**

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: 19.0**

### Sixteen (16) units required for the certificate

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

### I. Required courses for the certificate

**Units: 16.0**

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: 16.0**



## ELEMENTARY TEACHER EDUCATION for TRANSFER – Major (A.A.-T.)

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.

### Learning Outcome(s):

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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

The Elementary Teacher Education for Transfer Degree 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

## ELEMENTARY TEACHER EDUCATION FOR TRANSFER Major (A.A.-T.)

### 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.

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

<i>Required courses for the major (42 units)</i>		42.0
BIOL 100	Principles Of Biological Science	4.0
<i>Select one from either CDEV 104 or PSY 104</i>		3.0
CDEV 104	Child Growth and Development	3.0
OR		
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
<i>Select one from either ENGL 105 or ENGL 110</i>		4.0-5.0
ENGL 105	Intensive Composition and Reading	5.0
OR		
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
<i>Select one from either POLS 102 or POLS 110</i>		3.0-4.0
POLS 102	American Government & Politics	3.0
OR		
POLS 110	American Institutions and History	4.0
<i>List A: Select one course (3 units)</i>		3.0
ENGL 201	Advanced Composition	3.0
ENGL 204	Advanced Composition and Critical Thinking Through Literature	4.0
READ 111	Reading IV: Analytical & Critical Reading	3.0
<i>List B: Select one course (3 units)</i>		3.0
ART 102	History of Art II	3.0
MUS 102	Introduction to Music Literature & Listening	3.0
THEA 100	Introduction to Theatre	3.0
<i>List C: (0-12 additional units)</i>		0.0-12.0
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 Foundations	3.0
ES 211	Physical Education in the Elementary School	3.0
		Total: 48.0-60.0

## EMERGENCY MEDICAL SERVICES – Major (A.S.) and Certificate

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 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 Health and Public Safety Department for more specifics.

The program goal is to prepare competent entry-level paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains with or without exit points at the Advanced Emergency Medical Technician, and/or Emergency Medical Responder levels.

### Learning Outcome(s):

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 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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.

## EMERGENCY MEDICAL SERVICES Major (A.S.) and Certificate

Thirty-nine and one-half (39.5) units required for this major.

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

### I. Prerequisite for the major (10.5 units)

BIOL 090	Anatomy and Physiology for Health Occupations	3.0
EMT 105	Emergency Medical Technician I	7.5

### II. Required courses for the major (39.5 units)

Units: 39.5

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 I	3.5
EMTP 235	EMT - Paramedic Field I	6.5
EMTP 245	EMT - Paramedic Field II	5.5

Total: 39.5

Thirty-nine and one-half (39.5) units required for the certificate.

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

### I. Prerequisites for the certificate

BIOL 090	Anatomy and Physiology for Health Occupations	3.0
EMT 105	Emergency Medical Technician I	7.5

### II. Required courses for the certificate (39.5 units)

Units: 39.5

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 I	3.5
EMTP 235	EMT - Paramedic Field I	6.5
EMTP 245	EMT - Paramedic Field II	5.5

Total: 39.5

## ENGLISH for TRANSFER – Major (A.A.-T.)

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.

### Learning Outcome(s):

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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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. Common Careers for English Majors:

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

## ENGLISH FOR TRANSFER Major (A.A.-T.)

### REQUIREMENTS FOR THE MAJOR

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

#### 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.

Units: 18.0-19.0

Required for the Major

<i>Option I: select English 102 and English 201</i>		6.0
ENGL 102	Introduction to Literature	3.0
ENGL 201	Advanced Composition	3.0
<i>Option II: select ENGL 204</i>		4.0
ENGL 204	Advanced Composition and Critical Thinking Through Literature	4.0

#### A. Select two courses (6.0 units)

ENGL 220	Survey of American Literature I	3.0
ENGL 221	Survey of American Literature II	3.0
ENGL 224	Survey of British Literature I	3.0
ENGL 225	Survey of British Literature II	3.0

#### B. Based on Option, select one or two courses (3.0-6.0 units)

Option I: select one course (3.0 units)

Option II: select two courses (6.0 units)

Any List A course not already used.

ENGL 226 (same as HUM 226)	Introduction to Mythology	3.0
ENGL 250	Creative Writing	3.0

#### C. Select one course (3.0 units)

Any List A or B course not already used.

BUS 260	Business Communications	3.0
ENGL 210	Children's Literature	3.0
ENGL 257	Survey of Chicana/o Literature	3.0
ENGL 270	Introduction to Linguistics	3.0
HUM 100	Introduction to the Humanities	3.0
THEA 100	Introduction to Theatre	3.0

Total: 18.0-19.0

## EXERCISE SCIENCE – Major (A.S.)

The Exercise Science 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.

### Learning Outcome(s):

1. Identify common injuries in the field of athletics and physical education, and then discuss short-term and long-term treatment plans.
2. 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).
3. 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

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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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 Exercise Science may find employment as assist level positions in the K-12 school system, the fitness industry or recreational settings.

## EXERCISE SCIENCE Major (A.S.)

Eighteen to Twenty (18.0-20.0) units required for the major

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

### I. Required courses for the major : Select two courses (6.0 units)

Units: 6.0

HE 104	First Aid and CPR	3.0
HE 106	Introduction to Nutrition Science	3.0
ES 209	Introduction to Kinesiology	3.0
ES 219	Introduction to Athletic Training	3.0

### SELECT APPROPRIATE OPTION FOR EDUCATIONAL GOAL:

Units: 12.0-14.0

#### Option I - Intercollegiate Athletics (12.0-14.0 units)

This option is designed for the student athlete.

#### II. Activity Requirement (9.0 units)

##### In Season Athletics:

Complete two courses for 6.0 units. When appropriate course repetition is acceptable to reach the 6.0 units.

ATHL 120	Intercollegiate Cross Country & PE	3.0
ATHL 122	Intercollegiate Volleyball & PE	3.0
ATHL 124	Intercollegiate Men's Soccer & PE	3.0
ATHL 126	Intercollegiate Women's Soccer & PE	3.0
ATHL 128	Intercollegiate Men's Basketball & PE 1	3.0
ATHL 129	Intercollegiate Men's Basketball & PE 2	3.0
ATHL 130	Intercollegiate Women's Basketball & PE 1	3.0
ATHL 131	Intercollegiate Women's Basketball & PE 2	3.0
ATHL 133	Intercollegiate Baseball & PE	3.0
ATHL 135	Intercollegiate Softball & PE	3.0
ATHL 137	Intercollegiate Men's Tennis & PE	3.0
ATHL 139	Intercollegiate Women's Tennis & PE	3.0

##### Out of Season Conditioning

Select one course (3.0 units)

ATHL 121	Out-of-Season Intercollegiate Cross Country & PE	3.0
ATHL 123	Out-of-Season Intercollegiate Volleyball & PE	3.0
ATHL 125	Out-of-Season Intercollegiate Men's Soccer & PE	3.0
ATHL 127	Out-of-Season Intercollegiate Women's Soccer & PE	3.0
ATHL 132	Out-of-Season Intercollegiate Baseball & PE	3.0
ATHL 134	Out-of-Season Intercollegiate Softball & PE	3.0
ATHL 136	Out-of-Season Intercollegiate Men's Tennis & PE	3.0
ATHL 138	Out-of-Season Intercollegiate Women's Tennis & PE	3.0

#### III. Theory/Practicum Requirement (3.0-4.0 units)

Select one or two courses for a minimum of 3.0 units

ES 200	Theory of Baseball	2.0
ES 201	Theory of Basketball	2.0
ES 202	Theory of Softball	2.0
ES 203	Theory of Volleyball	2.0
ES 211	Physical Education in the Elementary School	3.0
ES 221	Psychology of Coaching	2.0
ES 222	Sports Officiating	3.0

#### Option II - Exercise Science (12.0 units)

This option is designed for the Exercise Science student, not participating in intercollegiate athletics.

#### II. Activity Requirement (6.0 units)

Select a minimum of one course from three areas for a total of 6.0 units

<b>Adaptive</b>		
ES 130	Adapted Physical Exercise	1.0
ES 131	Adapted Sports	1.0
<b>Aquatics</b>		
ES 107	Aquatic Exercise	1.0
ES 121	Beginning to Intermediate Swimming	1.0
ES 122	Lifeguard Training	2.0
ES 123	Water Safety Instr Train	2.0



**EXERCISE SCIENCE Major (A.S.) (Option II continued)**

<i>Fitness</i>		
ES 102	Physical Fitness	1.0
ES 103	Physical Fitness - Women	1.0
ES 104	Weight Training	1.0
ES 106	Walking/Jogging Fitness	1.0
<i>Individual/Team Sports</i>		
ES 112	Basketball - Co-Ed	1.0
ES 120	Softball	1.0
ES 126	Tennis	1.0
ES 128	Co-Ed Volleyball 1	1.0
ES 129	Co-Ed Volleyball 2	1.0
ES 170	Beginning Bowling	1.0
ES 171	Intermediate Bowling	1.0
ES 172	Advanced Bowling	1.0
III. Theory/Practicum Requirement (6.0)		
<i>Select two or three courses for a minimum of 6.0 units</i>		
ES 200	Theory of Baseball	2.0
ES 201	Theory of Basketball	2.0
ES 202	Theory of Softball	2.0
ES 203	Theory of Volleyball	2.0
ES 211	Physical Education in the Elementary School	3.0
ES 221	Psychology of Coaching	2.0
ES 222	Sports Officiating	3.0

**Total: 18.0-20.0**

## FIRE TECHNOLOGY – Major (A.S.) and Certificate

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.

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.

### Learning Outcome(s):

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.
3. Students will demonstrate knowledge of the different types of non-water based fire suppression systems and how each is used to extinguish fire.

### 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

## CAREER OPPORTUNITIES

City and County Fire Department Personnel, Forestry Fire Control

### FIRE TECHNOLOGY Major (A.S.) and Certificate

Thirty-three (33) 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)		Units: 18.0
FIRE 100	Fire Protection Organization	3.0
FIRE 101	Fire Prevention Technology	3.0
FIRE 102	Fire Protection Equipment and Systems	3.0
FIRE 103	Building Construction for Fire Protection	3.0
FIRE 104	Fire Behavior 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		Units: 15.0
AJ 108	Public Safety Report Writing <sup>*</sup>	3.0
CIS 101	Introduction to Information Systems	3.0
EMT 105	Emergency Medical Technician I <sup>*</sup>	7.5
FIRE 109	Hazardous Materials for First Responders <sup>*</sup>	2.0
FIRE 220	Fire Apparatus Driver/Operator 1A <sup>**</sup>	2.5
FIRE 221	Fire Apparatus Driver/Operator 1B	2.5
FIRE 222	Fire Investigation 1A	2.5
FIRE 223	Fire Investigation 1B	2.5
FIRE 231	Incident Command System 300	1.5
FIRE 246	Company Officer 2A: Human Resource Management	2.5
FIRE 247	Company Officer 2B: General Administrative Functions	1.5
FIRE 248	Company Officer 2C: Fire Inspections and Investigations	2.5
FIRE 249	Company Officer 2D: All-Risk Command Operations	2.5
FIRE 250	Company Officer 2E: Wildland Incident Operations	2.5

<sup>\*</sup>Recommended - AJ 108, EMT 105, and FIRE 109

<sup>\*\*</sup>FOR FIRE 220-240: Core courses required. Fire Fighter II and/or experience requirements as mandated by State Fire Training Course Information and Required Materials Manual, California Department of Forestry and Fire Protection, May 2008.

Total: 33.0

Thirty-three (33) 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)		Units: 18.0
FIRE 100	Fire Protection Organization	3.0
FIRE 101	Fire Prevention Technology	3.0
FIRE 102	Fire Protection Equipment and Systems	3.0
FIRE 103	Building Construction for Fire Protection	3.0
FIRE 104	Fire Behavior 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		Units: 15.0
AJ 108	Public Safety Report Writing <sup>*</sup>	3.0
CIS 101	Introduction to Information Systems	3.0
EMT 105	Emergency Medical Technician I <sup>*</sup>	7.5
FIRE 109	Hazardous Materials for First Responders <sup>*</sup>	2.0
FIRE 220	Fire Apparatus Driver/Operator 1A <sup>**</sup>	2.5
FIRE 221	Fire Apparatus Driver/Operator 1B	2.5
FIRE 222	Fire Investigation 1A	2.5
FIRE 223	Fire Investigation 1B	2.5
FIRE 231	Incident Command System 300	1.5
FIRE 246	Company Officer 2A: Human Resource Management	2.5
FIRE 247	Company Officer 2B: General Administrative Functions	1.5
FIRE 248	Company Officer 2C: Fire Inspections and Investigations	2.5
FIRE 249	Company Officer 2D: All-Risk Command Operations	2.5
FIRE 250	Company Officer 2E: Wildland Incident Operations	2.5

<sup>\*</sup>Recommended - AJ 108, EMT 105, and FIRE 109

<sup>\*\*</sup>FOR FIRE 220-240: Core courses required. Fire Fighter II and/or experience requirements as mandated by State Fire Training Course Information and Required Materials Manual, California Department of Forestry and Fire Protection, May 2008.

Total: 33.0

## FIREFIGHTER I – Certificate

The Firefighter I Certificate of Achievement program will cover the principles, procedures, 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.

### Learning Outcome(s):

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

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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

- City and County Fire Department Personnel
- Forestry Fire Control

### FIREFIGHTER I Certificate

**Twenty-two and one-half (22.5) 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

Units: 22.5

Successful completion of this certificate will meet the educational requirements for a California State Fire Marshall Firefighter I Certificate. Upon completion of the certificate program the candidate is required to be affiliated with a fire agency for one year of 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.

FIRE 140	Fire - First Responders	9.5
FIRE 142	Firefighter Academy 1	10.0
FIRE 144	Firefighter Academy 2	3.0

Total: 22.5

## FRENCH – Major (A.A.)

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.

### Learning Outcome(s):

1. Acquire the ability to use French for oral understanding, speaking, reading and writing.
2. Acquire 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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. Some positions however require a four-year degree for which IVC's program is a good base for transfer.

- Trade and Commerce • Export/Import • Interpreter/Translator • Banking Representative • Buyer/Sales Representative • Foreign/Diplomatic Service • Airlines Personnel • Travel Industry • Media Personnel • Foreign Correspondent • Public Relations • U.S. Immigration/Customs • U.S. Information Agency • Peace Corps • Language Teacher • Bilingual/Foreign Secretary • Research Assistant • International Business Personnel • Foreign Publications/Textbook Editor

**FRENCH Major (A.A.)**

Twenty (20) 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)****Units: 20.0**

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
		<b>Total: 20.0</b>

## GENERAL SCIENCE – Major (A.S.)

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.

### Learning Outcome(s):

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

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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

• Astronomer • Biologist • College Teacher • Elementary Teacher • Secondary Teacher • Scientific Researcher • Lab Technician • Field Writer • Scientific Writer • Chemist • Environmentalist • Physicist • Geographer • Geologist • Engineer

## GENERAL SCIENCE Major (A.S.)

Eighteen (18) units minimum required for this major.

18.0

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

### AREA I - Select one (1) course from the following (3.0-4.0 units):

ANTH 100	Physical Anthropology	3.0
BIOL 100	Principles Of Biological Science	4.0
BIOL 124	Biology of Animals	4.0
BIOL 140	General Botany	3.0
BIOL 150	Human Genetics	3.0
BIOL 180	General Biology: Molecules, Cells & Genetics	4.0
BIOL 182	General Biology: Principles of Organismal Biology	4.0

### AREA II - Select one (1) course from the following (3.0-5.0 units):

ASTR 100	Principles of Astronomy	3.0
CHEM 100	Introduction To Chemistry	4.0

### Select one from either AG 110 or ENVS 110

AG 110	Environmental Science	3.0
OR		
ENVS 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 (9.0-12.0 units) to reach eighteen (18 units):

BIOL 200	Human Anatomy and Physiology I	4.0
BIOL 202	Human Anatomy and 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
CHEM 230	Analytical Chemistry	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: 18.0



## GEOGRAPHY for TRANSFER – Major (A.A.-T.)

The Associate in Arts in Geography for Transfer Degree will provide fundamental geographic knowledge to students who wish to transfer to a CSU to earn a Baccalaureate Degree in Geography. Geography majors go on to pursue a wide range of career opportunities in fields such as urban planning, market research, land use analysis, transportation, tourism and education, along with potential careers in public and government agencies such as the Bureau of Census, Central Intelligence Agency, Drug Enforcement Agency, United States Geologic Survey, Department of Immigration and Naturalization and the Department of State.

### Learning Outcome(s):

1. Acquire and utilize terminology and vocabulary appropriate to geography as a field of study and academic discipline;
2. Establish and exercise the skills necessary to express and interpret spatial relations and patterns via maps and/or other geo-spatial representational media;
3. Identify and demonstrate the major concepts associated with Cultural, Physical, and Regional Geography in written and oral formats;
4. Explain fundamental physical relationships among the atmosphere, hydrosphere, lithosphere and biosphere, within the context of the scientific method;
5. Demonstrate critical thinking skills necessary to utilize a geographic perspective in explaining geo-spatial relationships, distributions, and impacts in scalar terms.

### 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

Urban planning, Market research, Land use analysis, Transportation, Tourism and education, Government agencies such as: Bureau of Census, Central Intelligence Agency, Drug Enforcement Agency, United States Geologic Survey, Department of Immigration and Naturalization, and the Department of State

**GEOGRAPHY FOR TRANSFER Major (A.A.-T.)**

**REQUIREMENTS FOR THE 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. 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. Required for the major**

**Required courses for the major (7.0 units) Units: 7.0**

GEOG 100	Physical Geography	3.0
GEOG 111	Physical Geography Laboratory	1.0
<i>Select one:</i>		3.0
GEOG 102	Cultural Geography	3.0
OR		
GEOG 108	World Regional Geography	3.0

**LIST A: Select two courses (6.0 units) Units: 6.0**

GEOG 140	California Geography	3.0
GEOG 155	Introduction to Geographic Information Systems and Techniques with Lab	3.0
GEOL 130	Climate and Weather	3.0

**LIST B: Select 2 courses (6.0-7.0 units) Units: 6.0-7.0**

Any LIST A course not already used.		
ANTH 102	Cultural Anthropology	3.0
GEOL 100	General Geology	4.0

**Total: 19.0-20.0**

## GEOLOGY for TRANSFER – Major (A.S.-T.)

The Associate in Science in Geology for Transfer provides a foundation in the physical sciences necessary for continued studies at the upper division level for geology majors. It is a starting point for students who are preparing for careers in education, geoscience research, government, and where scientific and technical skills are in great demand.

### Learning Outcome(s):

1. Students will understand the unifying principles of physical and historical geology and have a working knowledge of the discipline's diverse conceptual approaches and have developed skills in the application of methodological approaches.
2. Classify and identify geological materials such as minerals, rocks, fossils and understand their relationships to each other, to geologic time and to interacting earth systems.
3. Students will understand the relevance of the scientific method and have a working knowledge of how the scientific method applies to the study and evaluation of physical and historical geologic principles.
4. Students will evaluate and connect geologic processes (such as those associated with plate tectonics) to features (such as volcanoes and fault lines) through time and space on a global scale.

### 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

Geologists are employed in many sectors of the work force including environmental consulting firms; the mining and oil and gas/geothermal industries; schools from junior high through university level positions; and all levels of government from federal and state geological surveys and the Environmental Protection Agency, local government and various regulatory agencies that are mostly concerned with environmental matters. Examples of areas of specialization include: Earth Science Teachers; Economic Geologists; Engineering Geologists; Environmental Geologists; Geochemists; Geology Professors; Geomorphologists; Geophysicists; Glacial Geologists; Hydrogeologists; Marine Geologists; Mineralogists; Paleontologists; Petroleum Geologists; Petrologists; Seismologists; Structural Geologists and Volcanologists.

## GEOLOGY FOR TRANSFER Major (A.S.-T.)

### REQUIREMENTS FOR THE MAJOR

#### 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 (26) units required for the major.

26.0

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

GEOL 100	General Geology	4.0
GEOL 140	The Earth Through Time: Historical Geology	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
MATH 194	Analytic Geometry and Calculus II	4.0

#### IV. Additional recommended preparation.

BIOL 182	General Biology: Principles of Organismal Biology	4.0
PHYS 200	General Physics I	4.0
PHYS 202	General Physics II	4.0

Total: 26.0

## GLOBAL STUDIES for TRANSFER – Major (A.A.-T.)

The Associate in Arts in Global Studies for Transfer Degree will provide fundamental knowledge to students who wish to transfer to a CSU to earn a baccalaureate degree in global studies. Students majoring in global studies go on to pursue a wide range of career opportunities in fields such as urban planning, market research, land use analysis, transportation, tourism and education, along with potential careers in public and government agencies such as the Bureau of Census, Central Intelligence Agency, Drug Enforcement Agency, United States Geologic Survey, Department of Immigration and Naturalization and the Department of State. Additionally, global studies may serve as a useful major for students who want to complete law school, with a focus on environmental, international business, or migration law.

### Learning Outcome(s):

5. evaluate their role as a member of a global network of independent societies.
6. formulate a cohesive understanding of global issues and current events and incorporate this knowledge into their career and life.
7. analyze various perspectives from the social sciences that explain the motivations for and consequences of globalization.

### 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

Government agencies such as: Bureau of Census, Central Intelligence Agency, Drug Enforcement Agency, United States Geologic Survey, Department of Immigration and Naturalization, and the Department of State

Market research, Legal work, Logistics, International business and consulting, Tourism and education

## GLOBAL STUDIES FOR TRANSFER Major (A.A.-T.)

### REQUIREMENTS FOR THE MAJOR

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

#### 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-three (21.0-23.0 units) required for the major

Required Core: Six units (6.0)

Units: 6.0

GLST 101	Introduction to Global Studies	3.0
GLST 102	Global Issues	3.0

#### List A: Select five courses from at least four areas (15.0 - 17.0 units)

Units: 15.0-17.0

##### Area 1: Culture and Society

ANTH 102	Cultural Anthropology	3.0
HIST 100	Early World History	3.0
HIST 101	Modern World History	3.0

##### Area 2: Geography

GEOG 100	Physical Geography	3.0
GEOG 102	Cultural Geography	3.0
GEOG 108	World Regional Geography	3.0

##### Area 3: Economics

ECON 101	Introduction to Micro Economics	3.0
ECON 102	Introduction to Macro Economics	3.0

##### Area 4: Politics

POLS 104	Comparative Politics	3.0
POLS 106	Introduction to International Relations	3.0

##### Area 5: Humanities

AMSL 200	American Sign Language 3	4.0
AMSL 202	American Sign Language 4	4.0
FREN 201	Intermediate French I	5.0
FREN 211	Intermediate French II	5.0
RELS 100	Religions of the Modern World	3.0
RELS 104 (same as PHIL 104)	Ethics	3.0
SPAN 200	Intermediate Spanish I	5.0
SPAN 210	Intermediate Spanish II	5.0
SPAN 220	Spanish for Heritage Speakers I	5.0
SPAN 221	Spanish for Heritage Speakers II	5.0

Total: 21.0-23.0

## HISTORY for TRANSFER – Major (A.A.-T.)

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 student to better understand the present and their place in today's world. Historical study provides a solid, fundamental preparation for careers in business, industry, government and education. It also serves as excellent preparation for law school, the Foreign Services, international work, 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.

### Learning Outcome(s):

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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

Of the career opportunities identified most 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

## HISTORY FOR TRANSFER Major (A.A.-T.)

### REQUIREMENTS FOR THE MAJOR

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

#### 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 (18.0) units required for the major.

<b>Required Core (6.0 units)</b>	<b>Units: 6.0</b>
HIST 120 United States History: Prehistory to Reconstruction	3.0
HIST 121 United States History: Reconstruction to the Present	3.0
<b>List A: Select two (6.0 units)</b>	<b>Units: 6.0</b>
<i>Select one from:</i>	3.0
HIST 100 Early World History	3.0
OR	
HIST 110 Early Western Civilization	3.0
<i>AND Select one from:</i>	3.0
HIST 101 Modern World History	3.0
OR	
HIST 111 Modern Western Civilization	3.0
<b>List B: Select one course from each area (6.0 units)</b>	
<b>Area 1: Select one (3.0 units)</b>	<b>Units: 3.0</b>
Any List A World History course not already used.	
AIS 106 (same as ANTH 106) Indians of North America	3.0
AIS 108 (same as ANTH 108) Indians of the Southwest	3.0
CHIC 100 Introduction to Chicana/o Studies	3.0
ENGL 226 (same as HUM 226) Introduction to Mythology	3.0
GEOG 108 World Regional Geography	3.0
HIST 130 Early Latin America	3.0
HIST 131 Modern Latin America	3.0
HIST 132 History of Mexico	3.0
HIST 160 Middle East from 600	3.0
HIST 220 Women in American History	3.0
HIST 225 Mexican American History	3.0
POLS 106 Introduction to International Relations	3.0
RELS 100 Religions of the Modern World	3.0
SPAN 225 Introduction to Spanish American Literature	3.0
<b>Area 2: Select one (3.0 units)</b>	<b>Units: 3.0</b>
Any List A or List B Area 1 course not already used.	
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 Micro Economics	3.0
ECON 102 Introduction to Macro Economics	3.0
GEOG 102 Cultural Geography	3.0
HIST 222 History of California	3.0
HUM 100 Introduction to the Humanities	3.0
POLS 100 Introduction to Political Science	3.0
	<b>Total: 18.0</b>



## HUMANITIES – Major (A.A.)

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.

### Learning Outcome(s):

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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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

## HUMANITIES Major (A.A.)

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

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

**A. Three (3.0) units required from the following:** **Units: 3.0**

HUM 100	Introduction to the Humanities	3.0
---------	--------------------------------	-----

**B. Must select six (6.0) units from the following:** **Units: 6.0**

ART 100	History of Art I*	3.0
ART 102	History of Art II*	3.0
ART 104	History of Modern Art*	3.0

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

**C. Must select six (6.0) units from the following:** **Units: 6.0**

ART 100	History of Art I*	3.0
ART 102	History of Art II*	3.0
ART 104	History of Modern Art*	3.0
ART 110	2-D Foundations	3.0
ART 120	Drawing I	3.0
ART 262	Gallery Display I	3.0
MUS 100	Introduction to Music Foundations	3.0
MUS 102	Intro to Music Literature & Listening	3.0
MUS 110	Musicianship I	1.0
MUS 120	Music Theory I	3.0
MUS 156	Beginning College Chorus	1.0
MUS 171	Chamber Orchestra	1.0
MUS 172	College-Community Band	1.0
MUS 175	Instrumental Ensemble	1.0
MUS 178	Symphony Orchestra	1.0

**D. Must select three units (3) from the following:** **Units: 3.0**

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 units (6) from the following:** **Units: 6.0**

AMSL 100	American Sign Language 1	4.0
AMSL 102	American Sign Language 2	4.0
CHIC 100	Introduction to Chicana/o Studies	3.0
COMM 100	Oral Communication	3.0
COMM 110	Advanced Oral Communication	3.0
COMM 180	Argumentation and Debate	3.0
ENGL 102	Introduction to Literature	3.0
ENGL 226 (same as HUM 226)	Introduction to Mythology	3.0
OR		
HUM 226 (same as ENGL 226)	Introduction to Mythology	3.0
ENGL 250	Creative Writing	3.0
FREN 100	Elementary French I	5.0
FREN 110	Elementary French II	5.0
FREN 201	Intermediate French I	5.0
FREN 211	Intermediate French II	5.0
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	Spanish for Heritage Speakers I	5.0
SPAN 221	Spanish for Heritage Speakers II	5.0
THEA 120	Fundamentals of Acting	3.0

**Total: 24.0**

# INDUSTRIAL AUTOMATION TECHNOLOGY – Major (A.S.) and Certificate

The Industrial Automation Technology program will prepare students with the knowledge, skills, and abilities to be employed technicians in areas such as industrial agriculture and automation, including heavy equipment maintenance and repair. Courses include Hydraulics, Pneumatics, Diesel Maintenance and Welding fundamentals. The Industrial Automation Technology program will also prepare technicians to troubleshoot, repair and install various industrial components and systems within agricultural automation, hydraulics and pneumatics.

## Learning Outcome(s):

1. Understand and demonstrate the necessary skills to become employed in the following industries: Industrial Machinery Repair, Industrial Automation, Agriculture and Heavy Equipment Maintenance and Repair.

## 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.

## 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.

## 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

## CAREER OPPORTUNITIES

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

- Industrial Machinery Mechanics • Diesel Maintenance Mechanics • Heavy Equipment Mechanics • Agriculture Equipment Mechanics • Maintenance and Repair Workers, General • Installation, Maintenance, and Repair Workers, All Other

## INDUSTRIAL AUTOMATION TECHNOLOGY Major (A.S.) and Certificate

*Twenty-two (22.0) units required for the major.* 22.0

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

AU T 140	Diesel Engine Maintenance and Repair	4.0
AU T 240	Diesel Engine Tune-Up	3.0
AU T 245	Hydraulic and Pneumatic Systems	4.0
BLDC 101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0
EWIR 165	Industrial Agriculture Automation	3.0
WELD 100	Welding Technology	5.0

Total: 22.0

*Twenty-two (22.0) units required for the certificate.* 22.0

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

AU T 140	Diesel Engine Maintenance and Repair	4.0
AU T 240	Diesel Engine Tune-Up	3.0
AU T 245	Hydraulic and Pneumatic Systems	4.0
BLDC 101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0
EWIR 165	Industrial Agriculture Automation	3.0
WELD 100	Welding Technology	5.0

Total: 22.0

## INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) – Certificate

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 to which they transfer.

### **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](http://www.imperial.edu/students/financial-aid-and-scholarships)

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

For specific course identifications that clear the IGETC requirements

for each section, please see a Counselor for Assistance.

<b>AREA 1. ENGLISH COMMUNICATION</b>	<b>Minimum Units Required Per Area</b>
<b>CSU - Three Courses Required: One course each from Categories 1A, 1B and 1C.</b>	
<b>UC - Two Courses Required: One course each from Categories 1A and 1B.</b>	
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
<b>AREA 2. MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING</b>	
<b>One Course: 3 Semester/4.5 Quarter Units Minimum</b>	
2A: Mathematical Concepts and Quantitative Reasoning	3
<b>AREA 3. ARTS AND HUMANITIES - Nine (9) semester or 12/15 quarter units</b>	
<b>Three (3) courses, with at least one course from the Arts and one Course from the Humanities.</b>	
<b>The third course from either area.</b>	
3A: Arts; 3B: Humanities+; and, 3A: Arts <u>or</u> 3B: Humanities+	9
<b>AREA 4: SOCIAL AND BEHAVIORAL SCIENCES - Nine (9) semester or 12/15 quarter units</b>	
<b>Three (3) courses from at least two (2) academic areas</b>	9
<b>AREA 5. PHYSICAL AND BIOLOGICAL SCIENCES - Minimum -7/9 semester or 9/12 quarter units</b>	
<b>One Physical Science course and One Biological Science course with at least one lab course from either area to be included.</b>	
5A: Physical Science; 5B: Biological Science (One course MUST have a laboratory component.)	7-9
<b>TOTAL MINIMUM UNITS REQUIRED</b>	<b>37</b>
<b>AREA 6A: Language Other Than English (LOTE)</b>	
<p>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:</p> <ol style="list-style-type: none"> <li>1) Satisfactory completion of the second level of a foreign language in high school with a second semester grade of C- or better.</li> <li>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.</li> <li>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.</li> <li>4) Satisfactory score on the SAT II: Subject Test in languages other than English.</li> <li>5) Successfully complete a College Board Advanced Placement or International Baccalaureate Higher Level exam in a language other than English.</li> </ol>	

## KINESIOLOGY for TRANSFER – Major (A.A.-T.)

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.

### Learning Outcome(s):

1. Identify common injuries in the field of athletics and physical education, and then discuss short-term and long-term treatment plans.
2. 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

Certified Athletic Trainer • Referee • Competitor • Correctional Officer • Teacher • Exercise Test Technologist • Coach • Recreation and 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 • Sports Information Director • Strength Conditioning Specialist • Physical Therapy Assistant

## KINESIOLOGY FOR TRANSFER Major (A.A.-T.)

Twenty-one to Twenty-three (21.0-23.0) units required for the major.

### 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. Required Courses

11.0

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

ES 209	Introduction to Kinesiology	3.0
--------	-----------------------------	-----

<b>BIOL 200 and BIOL 202</b>		<b>8.0</b>
------------------------------	--	------------

BIOL 200	Human Anatomy and Physiology I	4.0
----------	--------------------------------	-----

AND

BIOL 202	Human Anatomy and Physiology II	4.0
----------	---------------------------------	-----

OR

<b>BIOL 204 and BIOL 206</b>		<b>8.0</b>
------------------------------	--	------------

BIOL 204	Human Anatomy	4.0
----------	---------------	-----

AND

BIOL 206	Human Physiology	4.0
----------	------------------	-----

<i>Movement Based Courses (Maximum 3.0 units) - Select a maximum of one (1) course from any three (3) of the following areas for a maximum of three units:</i>		<b>3.0</b>
--	--	------------

Aquatics:

ES 121	Beginning to Intermediate Swimming	1.0
--------	------------------------------------	-----

Fitness:

ES 104	Weight Training	1.0
--------	-----------------	-----

ES 106	Walking/Jogging Fitness	1.0
--------	-------------------------	-----

Individual Sports:

ES 126	Tennis	1.0
--------	--------	-----

ES 170	Beginning Bowling	1.0
--------	-------------------	-----

ES 171	Intermediate Bowling	1.0
--------	----------------------	-----

ES 172	Advanced Bowling	1.0
--------	------------------	-----

Team Sports:

ES 112	Basketball - Co-Ed	1.0
--------	--------------------	-----

ES 120	Softball	1.0
--------	----------	-----

ES 126	Tennis	1.0
--------	--------	-----

ES 128	Co-Ed Volleyball 1	1.0
--------	--------------------	-----

ES 129	Co-Ed Volleyball 2	1.0
--------	--------------------	-----

ES 170	Beginning Bowling	1.0
--------	-------------------	-----

ES 171	Intermediate Bowling	1.0
--------	----------------------	-----

ES 172	Advanced Bowling	1.0
--------	------------------	-----

<i>List A. Select two courses from (7.0-9.0 units):</i>		<b>7.0-9.0</b>
---	--	----------------

BIOL 100	Principles Of Biological Science	4.0
----------	----------------------------------	-----

		<b>4.0-5.0</b>
--	--	----------------

CHEM 100	Introduction To Chemistry	4.0
----------	---------------------------	-----

OR

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
----------	-------------------	-----

Total: 21.0-23.0



## MATHEMATICS for TRANSFER – Major (A.S.-T.)

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.

### Learning Outcome(s):

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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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

## MATHEMATICS FOR TRANSFER Major (A.S.-T.)

### REQUIREMENTS FOR THE MAJOR

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

#### 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 (12.0 units)

Units: 12.0

MATH 192	Analytic Geometry and Calculus I	4.0
MATH 194	Analytic Geometry and Calculus II	4.0
MATH 210	Multivariable Calculus	4.0

List A: Select one course (3.0 units):

Units: 3.0

MATH 220	Elementary Differential Equations	3.0
MATH 230	Introduction to Linear Algebra with Applications	3.0

List B: Select one course (3.0-4.0 units):

Units: 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: 18.0-19.0

## MEDICAL ASSISTANT – Certificate

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.

### Learning Outcome(s):

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

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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

- Medical Assistant

### MEDICAL ASSISTANT Certificate

**Thirty (30.0) units required for the certificate.**

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

Required courses for the certificate (30.0 units)		Units: 30.0
AHP 100	Medical Terminology	3.0
BIOL 090	Anatomy and Physiology for Health Occupations	3.0
MA 071	Introduction to Medical Assisting and Practice	2.0
MA 073	Medical Assistant Administration	3.0
MA 075	Principles of Medical Billing, Insurance and Coding	3.0
MA 077	Medical Assistant Administrative Clinical	1.0
MA 081	Medication Mathematics and Pharmacology for Health Occupations	3.0
MA 083	Foundations of Medical Practice for Medical Assistants	5.0
MA 085	Exam Room and Special Procedures	3.0
MA 087	Medical Assistant Practicum and Review	4.0
		<b>Total: 30.0</b>

## MICROSOFT OFFICE – Certificate

Microsoft Office is a suite of products developed by Microsoft that includes Microsoft Word, Excel, PowerPoint, Access, and Outlook. Each program serves a different purpose and is compatible with other programs included in the package. Microsoft Office is the most common form of software used in the business world.

Take your certificate a step further by becoming a Microsoft Office Specialist. Imperial Valley College's Microsoft Office certificate will prepare you to become a Microsoft Office Specialist, holding an industry standard certification that will take your career to the next level.

### Learning Outcome(s):

1. Utilize office applications to run reports and infographs in a business setting.
2. Produce spreadsheets to demonstrate and analyze business solutions.
3. Share your thoughts and ideas by producing a PowerPoint presentation.

### 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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

Office Manager, Executive Assistant, Administrative Assistant, IT Support Technician, SharePoint Specialist, Database Specialist, Workbook Developer, Research Analyst, Project Coordinator, Administrative Assistant, Office Technician, Executive Secretary, Administrative Manager, Secretary, Bookkeeper, Receptionist, Word Processor, Records Manager, Medical Office Assistant (See Allied Health program), Computer Applications Specialist

### MICROSOFT OFFICE Certificate

#### I. Required courses for the certificate (8 units)

Units: 8.0

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

CIS 115	Microsoft Outlook	1.0
CIS 120	Microsoft Word I	1.0
CIS 121	Microsoft Word II	1.0
CIS 124	EXCEL I	1.0
CIS 125	EXCEL II	1.0
CIS 128	Microsoft Access	1.0
CIS 130	Power Point I	1.0
CIS 131	Power Point II	1.0
		Total: 8.0

## MUSIC for TRANSFER – Major (A.A.-T.)

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

### Learning Outcome(s):

1. History: The student will know the stylistic and historic periods of music terminology needed to identify and understand all the elements of music.
2. Music Theory: The student will have a knowledge of key signature, evolution of harmonic development and fundamental keyboard understanding and skills.
3. Performing Skills: The student will gain performing skills in difference 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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

## MUSIC FOR TRANSFER Major (A.A.-T.)

### REQUIREMENTS FOR THE DEGREE

Twenty-three to Twenty-seven (23.0-27.0) units required for the major.

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

#### 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. Required for the Major

12.0-15.0

MUS 100	Introduction to Music Foundations	3.0
And/Or		
MUS 120	Music Theory I	3.0
MUS 122	Music Theory II	3.0
MUS 220	Music Theory III	3.0
MUS 110	Musicianship I	1.0
MUS 112	Musicianship II	1.0
MUS 210	Musicianship III	1.0

#### Applied Music: Select Four

4.0

MUS 140	Piano I	1.0
MUS 142	Piano II	1.0
MUS 240	Piano III	1.0
MUS 242	Piano IV	1.0
MUS 150	Voice I	1.0
MUS 152	Voice II	1.0
MUS 250	Voice III	1.0
MUS 252	Voice IV	1.0
MUS 160	Guitar I	1.0
MUS 162	Guitar II	1.0
MUS 260	Guitar III	1.0
MUS 262	Guitar IV	1.0

#### Major Ensemble: Select Four

4.0

MUS 156	Beginning College Chorus	1.0
MUS 157	Intermediate College Chorus	1.0
MUS 171	Chamber Orchestra	1.0
MUS 175	Instrumental Ensemble	1.0
MUS 177	Stage Band	1.0
MUS 178	Symphony Orchestra	1.0
MUS 185	Mariachi Ensemble	1.0

#### List A: Select 3.0 - 4.0 units

3.0-4.0

Any piano course not already used.

MUS 102	Intro to Music Literature & Listening	3.0
MUS 212	Musicianship IV	1.0
MUS 222	Music Theory IV	3.0

Total: 23.0-27.0

## NURSING – REGISTERED (RN) – Major (A.S.)

The Registered Nursing Program is designed to provide the education necessary for licensure eligibility and practice as a Registered Nurse (RN). Acceptance into the program requires successful completion of all prerequisites and successful completion of the application and selection processes.

### Learning Outcome(s):

1. Students will meet or exceed the national mean pass rates for the national licensing exam (NCLEX-RN)
2. Students will demonstrate comprehensive knowledge of registered nursing at 75% or higher by the end of the ADRN program.
3. Program completion rates within 6 semesters will be at least 75 or higher.
4. At least 75% of graduates, alumni, and employers will indicate satisfaction with the Imperial Valley College ADRN program.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

• 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

## NURSING – REGISTERED (RN) Major (A.S.)

<b>Admission Requirements</b>		<b>27.0-28.0</b>
<b>1. Prerequisites for the major:</b>		
<i>Select one from either ENGL 105 or ENGL 110</i>		<b>4.0-5.0</b>
ENGL 105	Intensive Composition and Reading	5.0
OR		
ENGL 110	Composition and Reading	4.0
<b>Anatomy and Physiology Sequence</b>		<b>8.0</b>
BIOL 200	Human Anatomy and Physiology I	4.0
AND		
BIOL 202	Human Anatomy and Physiology II	4.0
OR		
BIOL 204	Human Anatomy	4.0
AND		
BIOL 206	Human Physiology	4.0
BIOL 220	General Microbiology	5.0
<i>Select one from either ANTH 102 or SOC 101</i>		<b>3.0</b>
ANTH 102	Cultural Anthropology	3.0
OR		
SOC 101	Introduction to Sociology	3.0
COMM 100	Oral Communication	3.0
NURS 100	Medication Mathematics	1.0
PSY 204	Developmental Psychology: Conception to Death	3.0
2. TEAS Exam: Must pass exam at the predetermined minimum cut score (or higher). The composite score from the first TEAS exam is used in the multi-screening criteria process for selection.		
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 Program as a requirement of the clinical agencies.		
5. American Heart BLS/CPR Certification: Must be current.		
<b>Progression Policy</b>		
All nursing courses must be taken in sequence and must be completed with a "C" or better with skills and clinical experience courses receiving the equivalent of "C" or "Satisfactory" or better to progress to the next level. Nursing Program graduates must submit a transcript demonstrating successful completion of all course work and graduation prior to sitting for the National Council Licensure Examination for Registered Nurses.		
<b>Registered Nursing Program Specific Courses:</b>		
<b>Semester 1:</b>		<b>8.0</b>
NURS 107	Nursing Fundamentals	7.0
NURS 109	Pharmacology	1.0
<b>Semester 2:</b>		<b>9.5</b>
NURS 123	Pharmacology II	1.5
NURS 127	Medical Surgical Nursing I	4.0
NURS 128	Nursing Care of the Childbearing Family	4.0
<b>Semester 3:</b>		<b>11.5</b>
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
<b>Semester 4:</b>		<b>8.0</b>
NURS 227	Medical Surgical Nursing III & Preceptorship	8.0

Total: 64.0-65.0



## NURSING – VOCATIONAL (VN) – Major (A.S.) and Certificate

The Vocational Nursing Program is designed to provide the education necessary for licensure eligibility and practice as a Licensed Vocational Nurse (LVN). Acceptance into the program requires successful completion of all prerequisites, and successful completion of the application and selection processes.

### Learning Outcome(s):

1. Students will meet or exceed the national mean pass rates for the national licensing exam (NCLEX-VN)
2. Students will demonstrate comprehensive knowledge of vocational nursing at 75% or higher by the end of the LVN program.
3. Program completion rates within 6 semesters will be at least 75% or higher.
4. At least 75% of graduates, alumni, and employers will indicate satisfaction with the Imperial Valley College VN program.

### 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

Licensed Vocational Nurse (LVN)

## NURSING VOCATIONAL (VN) Major (A.S.)

### Requirements for the Major

<i>Admission Requirements</i>		26.0-27.0
<b>1. Prerequisites for the major</b>		
AHP 100	Medical Terminology	3.0
<i>Anatomy and Physiology Sequence</i>		8.0
BIOL 200	Human Anatomy and Physiology I	4.0
AND		
BIOL 202	Human Anatomy and Physiology II	4.0
OR		
BIOL 204	Human Anatomy	4.0
AND		
BIOL 206	Human Physiology	4.0
BIOL 220	General Microbiology	5.0
<i>Select one from either ENGL 105 or ENGL 110</i>		4.0-5.0
ENGL 105	Intensive Composition and Reading	5.0
OR		
ENGL 110	Composition and Reading	4.0
PSY 101	Introduction to Psychology	3.0
PSY 204	Developmental Psychology: Conception to Death	3.0
<b>2. Background:</b>		
Must pass a criminal background check as a requirement of the clinical agencies		
<b>3. Drug Screen:</b>		
Must pass a drug screen as defined by the Nursing Program as a requirement of the clinical agencies		
<b>4. Health Exam and Vaccinations</b>		
Exam and vaccinations as defined by the Nursing Program must be completed as a requirement of the clinical agencies		
<b>5. American Heart BLS/CPR certification:</b>		
Must be current prior to any course work in the clinical settings		
<b>Additional Program Requirements</b>		
Please refer to your selected General Education pattern 1, 2 or 3 for additional degree requirements.		
<b>Progression Policy</b>		
All nursing courses must be taken in sequence and must be completed with a C or better with skills and clinical experience courses receiving the equivalent of a "C" or "Satisfactory" or better to progress to the next level.		
Vocational Nursing Program Specific Courses:		
<b>Semester 1:</b>		11.5
VN 110	Introduction to Patient Care I	5.0
VN 112	Intro to Patient Care II	5.0
VN 114	Pharmacology I	1.5
<b>Semester 2:</b>		13.0
VN 120	The Maternity Cycle	5.5
VN 122	Common Health Problems I	5.5
VN 124	Pharmacology II	2.0
<b>Semester 3:</b>		13.5
VN 116	Patient Care Management and Critical Thinking	2.5
VN 130	Common Health Problems II	5.5
VN 132	Common Health Problems III	5.5
		Total: 64.0-65.0

## NURSING VOCATIONAL (VN) Certificate

### Requirements for the Certificate

<i>Admission Requirements</i>		26.0-27.0
<i>1. Prerequisites for the certificate</i>		
AHP 100	Medical Terminology	3.0
<i>Anatomy and Physiology Sequence</i>		8.0
BIOL 200	Human Anatomy and Physiology I	4.0
AND		
BIOL 202	Human Anatomy and Physiology II	4.0
<i>OR</i>		
BIOL 204	Human Anatomy	4.0
AND		
BIOL 206	Human Physiology	4.0
BIOL 220	General Microbiology	5.0
<i>Select one from either ENGL 105 or ENGL 110</i>		4.0-5.0
ENGL 105	Intensive Composition and Reading	5.0
OR		
ENGL 110	Composition and Reading	4.0
PSY 101	Introduction to Psychology	3.0
PSY 204	Developmental Psychology: Conception to Death	3.0
<i>2. Background:</i>		
Must pass a criminal background check as a requirement of the clinical agencies		
<i>3. Drug Screen:</i>		
Must pass a drug screen as defined by the Nursing Program as a requirement of the clinical agencies		
<i>4. Health Exam and Vaccinations</i>		
Must complete health exam and vaccinations as defined by the Nursing Program as a requirement of the clinical agencies		
<i>5. American Heart BLS/CPR certification:</i>		
Must be current prior to any clinical experience		
<i>Additional Program Requirements</i>		
<i>Progression Policy</i>		
All nursing courses must be taken in sequence and must be completed with a "C" or better with skills and clinical experience courses receiving the equivalent of a "C" or "Satisfactory" or better to progress to the next level.		
Vocational Nursing Program Specific Courses:		
<i>Semester 1</i>		11.5
VN 110	Introduction to Patient Care I	5.0
VN 112	Intro to Patient Care II	5.0
VN 114	Pharmacology I	1.5
<i>Semester 2</i>		13.0
VN 120	The Maternity Cycle	5.5
VN 122	Common Health Problems I	5.5
VN 124	Pharmacology II	2.0
<i>Semester 3</i>		13.5
VN 116	Patient Care Management and Critical Thinking	2.5
VN 130	Common Health Problems II	5.5
VN 132	Common Health Problems III	5.5
		Total: 64.0-65.0

## NUTRITION AND DIETETICS for TRANSFER – Major (A.S.-T.)

The Associate in Science in Nutrition and Dietetics for Transfer (AS-T) degree is intended to meet the lower-division requirements for nutrition and dietetics majors, an emphasis or option within a nutrition or dietetics major, or a major considered similar to a nutrition and dietetics major at a participating California State University (CSU) campus. The degree prepares students for a career in nutrition and dietetics and to function in a variety of nutrition, public health, and clinical settings.

### Learning Outcome(s):

1. Identify components of a healthy diet and lifestyle that lead to optimal health and chronic disease prevention.
2. Analyze an individual's nutritional status and make appropriate dietary recommendations.
3. Identify and analyze credible research on nutrition-related topics.

### 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

Licensed and Non-Licensed Nutritionist, Sports Nutritionist, Health Coach, Holistic Nutritionist, Clinical Dietitian, Certified Nutrition Specialist, Public Health Nutritionist, Food Safety Auditor, Personal Nutritionist, Corporate Wellness Consultant, College Nutritionist, Nutrition Educator, Exercise Science Jobs

## NUTRITION AND DIETETICS FOR TRANSFER Major (A.S.-T.)

### REQUIREMENTS FOR THE MAJOR

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

Twenty-eight to Thirty-two (28.0-32.0 units) required for the major.

#### 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

<b>Required Core: Twenty-one units (21.0)</b>		<b>Units: 21.0</b>
BIOL 220	General Microbiology	5.0
CHEM 200	General Inorganic Chemistry I	5.0
CHEM 202	General Inorganic Chemistry II	5.0
HE 106	Introduction to Nutrition Science	3.0
PSY 101	Introduction to Psychology	3.0
<b>List A: Select one (4.0-8.0 units)</b>		<b>Units: 4.0-8.0</b>
BIOL 204	Human Anatomy	4.0
BIOL 206	Human Physiology	4.0
<i>OR (BIOL 200 and 202 must both be taken to meet the BIOL 115S C-ID requirement)</i>		
BIOL 200	Human Anatomy and Physiology I	4.0
AND		
BIOL 202	Human Anatomy and Physiology II	4.0
CHEM 204	Organic Chemistry I	5.0
MATH 119	Elementary Statistics	4.0
PSY 214	Statistical Methods in Behavioral Sciences	4.0
<b>List B: Select one (3.0 units)</b>		<b>Units: 3.0</b>
ES 209	Introduction to Kinesiology	3.0
SOC 101	Introduction to Sociology	3.0
		<b>Total: 28.0-32.0</b>

## PHYSICS for TRANSFER – Major (A.S.-T.)

Physics, a natural science, is the scientific study of matter and energy and of the interaction between the two. The Associate Degree in Physics for Transfer provides students with an understanding of the physical world, both conceptually and in the language of mathematics. The degree prepares students for pre-professional careers and for curriculum at four-year institutions leading to a baccalaureate degree in areas such as physics, astrophysics, geophysics, mathematics, and engineering. Physics majors develop strong mathematical, analytical, and laboratory skills, and a solid understanding of the fundamental physical laws that govern the universe.

### Learning Outcome(s):

1. Apply the principles of mechanics, electromagnetism, thermodynamics, waves, optic, and modern physics to theoretical problems as well as to experimental applications.
2. Demonstrate laboratory skills including how to take and analyze data, keep an organized lab book, and write a lab report.
3. Apply mathematics through multivariable calculus to solve physics problems.

### 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

• Engineering • Teaching • Research

## PHYSICS FOR TRANSFER Major (A.S.-T.)

### REQUIREMENTS FOR THE MAJOR

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

#### 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 (24.0) units required for the major.

Required for the major

Units: 24.0

PHYS 200	General Physics I	4.0
PHYS 202	General Physics II	4.0
PHYS 204	General Physics III	4.0
MATH 192	Analytic Geometry and Calculus I	4.0
MATH 194	Analytic Geometry and Calculus II	4.0
MATH 210	Multivariable Calculus	4.0

Total: 24.0

## POLITICAL SCIENCE for TRANSFER – Major (A.A.-T.)

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.

### Learning Outcome(s):

1. Use critical thinking skills to develop an understanding of the international community.
2. Develop an appreciation and understanding of the American political 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

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



## POLITICAL SCIENCE FOR TRANSFER Major (A.A.-T.)

### REQUIREMENTS FOR THE DEGREE

Eighteen to Twenty (18.0-20.0) units required for the major.

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

#### I. 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

<b>III. Required for the Major (3.0-4.0 units)</b>		<b>3.0-4.0</b>
<i>Select one from either POLS 102 or POLS 110</i>		<b>3.0-4.0</b>
POLS 102	American Government & Politics	3.0
OR		
POLS 110	American Institutions and History	4.0

<b>List A: Select three courses (9.0-10.0 units)</b>		<b>9.0-10.0</b>
POLS 100	Introduction to Political Science	3.0
POLS 104	Comparative Politics	3.0
POLS 106	Introduction to International Relations	3.0
POLS 108	Introduction to Political Theory and Thought	3.0
MATH 119	Elementary Statistics	4.0

<b>List B: Select two courses (6.0 units)</b>		<b>6.0</b>
Any list A course not already used, any CSU transferable political science course, 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.)		

Total: 18.0-20.0

## PRE-ENGINEERING – Major (A.S.)

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.

### Learning Outcome(s):

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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

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

Aerospace Engineer ~ Electrical Engineer ~ Environmental Engineer ~ Civil Engineer ~ Computer Engineer ~ Mechanical Engineer ~ Structural Engineer

## PRE-ENGINEERING Major (A.S.)

Forty-one to Sixty-three (41.0 - 63.0) units required for the major.

41.0-63.0

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

<b>I. Select 6.0 units from:</b>		<b>6.0</b>
ENGR 210	Statics	3.0
ENGR 212	Dynamics	3.0
ENGR 240	Electric Circuit Analysis	3.0
<b>II. Select 17.0-32.0 units from:</b>		<b>17.0-32.0</b>
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
PHYS 200	General Physics I	4.0
PHYS 202	General Physics II	4.0
PHYS 204	General Physics III	4.0
<b>III. Select 3.0 units from:</b>		<b>3.0</b>
CIS 210	Programming in C++	3.0
CS 221	Introduction to Object Oriented Programming in Java	3.0
ENGR 100	Introduction to Engineering Design	3.0
<b>IV. Select 15.0-22.0 units from:</b>		<b>15.0-22.0</b>
MATH 119	Elementary Statistics	4.0
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	Introduction to Linear Algebra with Applications	3.0

Total: 41.0-63.0

## PRE-NURSING AND ALLIED HEALTH – Major (A.S.)

The Pre-Nursing and Allied Health Associate in Science degree provides students with a strong biology and chemistry foundation in preparation for Allied Health career fields such as nursing, medical laboratory technology, and pre-physical therapy. The Pre-Nursing and Allied Health degree includes the pre-requisites for Registered Nursing programs at two-year colleges and is transferable to Nursing and Health Science majors at various four-year institutions. Some variation in degree requirements may exist for a particular Allied Health program; therefore, it is essential that students refer to the catalog of their intended transfer institution and contact a counselor to ensure that all required coursework is completed.

### Learning Outcome(s):

1. Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them.
2. Accurately assess knowledge, skills, and abilities in relationship to one's educational, career, and/or personal goals.
3. Plan strategies to enhance the probability of acceptance into a nursing or allied health program.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

The coursework for this program will provide students with the foundation in preparation for Allied Health careers in fields such as Nursing, Medical Lab Technician, and Pre-Physical Therapy.

**PRE-NURSING AND ALLIED HEALTH Major (A.S.)**

<i>Thirty-five to Thirty-six (35.0-36.0) units required for the major.</i>		35.0-36.0
<i>Introductory Science Lab Courses</i>		8.0
<i>Biology Courses: Select One</i>		4.0
BIOL 100	Principles Of Biological Science	4.0
OR		
BIOL 124	Biology of Animals	4.0
OR		
BIOL 180	General Biology: Molecules, Cells & Genetics	4.0
OR		
BIOL 182	General Biology: Principles of Organismal Biology	4.0
AND		
CHEM 100	Introduction To Chemistry	4.0
<i>Select One Anatomy and Physiology Sequence:</i>		8.0
BIOL 200	Human Anatomy and Physiology I	4.0
AND		
BIOL 202	Human Anatomy and Physiology II	4.0
OR		
BIOL 204	Human Anatomy	4.0
AND		
BIOL 206	Human Physiology	4.0
BIOL 220	General Microbiology	5.0
<i>Select One:</i>		4.0-5.0
ENGL 105	Intensive Composition and Reading	5.0
OR		
ENGL 110	Composition and Reading	4.0
OR		
ESL 108	College Composition for Non-Native Speakers	5.0
<i>Select One:</i>		3.0
ANTH 102	Cultural Anthropology	3.0
OR		
SOC 101	Introduction to Sociology	3.0
COMM 100	Oral Communication	3.0
NURS 100	Medication Mathematics	1.0
PSY 204	Developmental Psychology: Conception to Death	3.0
		<b>Total: 35.0-36.0</b>

## PSYCHOLOGY for TRANSFER – Major (A.A.-T.)

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.

### Learning Outcome(s):

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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

• 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

**PSYCHOLOGY FOR TRANSFER Major (A.A.-T.)**

**REQUIREMENTS FOR THE DEGREE**

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

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

**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. Required core (10 units)**

**Units: 10.0**

PSY 101	Introduction to Psychology	3.0
PSY 212	Research Methods in Psychology	3.0
		4.0
PSY 214	Statistical Methods in Behavioral Sciences	4.0
OR		
MATH 119	Elementary Statistics	4.0

**List A: Select one (3-4 units)**

**Units: 3.0-4.0**

BIOL 100	Principles Of Biological Science	4.0
BIOL 180	General Biology: Molecules, Cells & Genetics	4.0
PSY 200	Biological Psychology	3.0

**List B: Select one (3 units)**

**Units: 3.0**

Any course from LIST A not already used.

PSY 204	Developmental Psychology: Conception to Death	3.0
---------	---	-----

**List C: Select one (3 units)**

**Units: 3.0**

Any course from LIST A or B not already used.

PSY 120	Introduction to Counseling	3.0
		3.0
PSY 206 (same as SOC 206)	Social Psychology	3.0
OR		
SOC 206 (same as PSY 206)	Social Psychology	3.0
PSY 208	Abnormal Psychology	3.0
PSY 211	Cognitive Psychology	3.0

**Total: 19.0-20.0**

## PUBLIC HEALTH SCIENCE for TRANSFER – Major (A.S.-T.)

Public health is defined as the science of protecting the safety and improving the health of communities through education, policy making and research for disease and injury prevention. 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 Public Health Science.

### Learning Outcome(s):

1. Students will be able to identify, assess, utilize and articulate credible information resources on personal and public health current issues, such as the Internet, social media, media outlets, and libraries.
2. Students will be able to effectively communicate strategies or tactics to improve health inequalities, such as advocacy, community organizing, and/or policy change.
3. Students will obtain a critical understanding and apply knowledge of Personal and Public Health in real life settings from the sub-disciplines of Human Anatomy and Physiology, Statistics, Chemistry, and Psychology.

### 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

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

• Biostatistician • Epidemiologist • Medical Assistant • Public Health Nurse • Medical Microbiologist • Environmental Health Officer • Public Health Inspector • Bioethicist • Community Health Worker • Environmental Scientist • Health Educator



## PUBLIC HEALTH SCIENCE FOR TRANSFER Major (A.S.-T.)

### REQUIREMENTS FOR THE MAJOR

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

#### 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. Thirty-two to Thirty-five (32.0-35.0 units) required for the major

##### Required Core (29.0-30.0 units)

Units: 29.0-30.0

BIOL 100	Principles Of Biological Science	4.0
<i>Select from (BIOL 200 and 202) OR (BIOL 204 and 206)</i>		8.0
BIOL 200	Human Anatomy and Physiology I	4.0
AND		
BIOL 202	Human Anatomy and Physiology II	4.0
OR		
BIOL 204	Human Anatomy	4.0
AND		
BIOL 206	Human Physiology	4.0
<i>Select one from:</i>		4.0-5.0
CHEM 100	Introduction To Chemistry	4.0
OR		
CHEM 200	General Inorganic Chemistry I	5.0
HE 102	Health Education	3.0
HE 103	Introduction to Public Health	3.0
MATH 119	Elementary Statistics	4.0
PSY 101	Introduction to Psychology	3.0
<b>List A: Select one course</b>		<b>Units: 3.0-5.0</b>
ACCT 210	Principles of Financial Accounting	4.0
ANTH 102	Cultural Anthropology	3.0
BIOL 220	General Microbiology	5.0
ECON 101	Introduction to Micro Economics	3.0
ECON 102	Introduction to Macro Economics	3.0
PSY 146	Psychology of Human Sexuality	3.0
SOC 101	Introduction to Sociology	3.0
		<b>Total: 32.0-35.0</b>

## RETAIL MANAGEMENT – Certificate

The Retail Management Certificate Program will equip students with valuable skills to start or advance their career in the retail and food chain industry. Students will gain a greater understanding of the retail industry including careers in: management and operations, sales and marketing, customer service, human resources, accounting, logistics and supply chain management and merchandising.

### Learning Outcome(s):

1. Apply relevant information needed to perform job-related tasks and make retail business decisions including: an ability to set goals, to read and compose technical business documents and to use math skills to calculate and analyze financial information.
2. Explain, follow and enforce company policies, procedures, and perform job duties in an ethical manner.

### 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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

management and operations, sales and marketing, customer service, human resources, logistics and supply chain management, merchandising

### RETAIL MANAGEMENT Certificate

Twenty-five to twenty-six (25.0-26.0) units required for the certificate.

Units: 25.0-26.0

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

ACCT 210	Principles of Financial Accounting	4.0
BUS 063	Essentials in Workplace Communication	3.0
BUS 120	Retail Management	3.0
BUS 132	Business Management	3.0
BUS 136	Human Relations in Management	3.0
BUS 144	Principles of Marketing	3.0
BUS 145	Human Resources Management	3.0
		3.0-4.0
BUS 180	Microsoft Office Suite for the Workplace	4.0
OR		
CIS 101	Introduction to Information Systems	3.0

Total: 25.0-26.0

## SOCIAL SCIENCE – Major (A.A.)

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.

### Learning Outcome(s):

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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

- Business • College Professor • Community Service • Economist • Geographer • Graduate School • High School Teacher • Historian • Human Relations • Journalist • Middle School Teacher • Military Service • Law Enforcement • Lawyer • Lobbyist • Personnel Specialist • Politician • Public Relations • Sociologist • Government and Civil Service

## SOCIAL SCIENCE Major (A.A.)

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: select at least one course from four of the following eight fields: 18.0**

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.

<b>American Indian Studies</b>		
AIS 106	Indians of North America	3.0
AIS 108	Indians of the Southwest	3.0
<b>Anthropology</b>		
ANTH 100	Physical Anthropology	3.0
ANTH 102	Cultural Anthropology	3.0
ANTH 106	Indians of North America	3.0
ANTH 108	Indians of the Southwest	3.0
ANTH 120	Introduction to Archaeology	3.0
<b>Economics</b>		
ECON 101	Introduction to Micro Economics	3.0
ECON 102	Introduction to Macro Economics	3.0
<b>Geography</b>		
GEOG 100	Physical Geography	3.0
GEOG 102	Cultural Geography	3.0
GEOG 108	World Regional Geography	3.0
<b>History</b>		
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 the Present	3.0
HIST 130	Early Latin America	3.0
HIST 131	Modern Latin America	3.0
HIST 132	History of Mexico	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
<b>Political Science</b>		
POLS 100	Introduction to Political Science	3.0
<i>Select one from either POLS 102 or POLS 110</i>		3.0-4.0
POLS 102	American Government & Politics	3.0
OR		
POLS 110	American Institutions and History	4.0
POLS 104	Comparative Politics	3.0
POLS 106	Introduction to International Relations	3.0
<b>Religious Studies</b>		
RELS 100	Religions of the Modern World	3.0
<b>Sociology</b>		
SOC 101	Introduction to Sociology	3.0
SOC 102	Contemporary Social Problems	3.0
		Total: 18.0

## SOCIOLOGY for TRANSFER – Major (A.A.-T.)

Sociology is the study of the groups people build, the makeup of human groups, and changes in their makeup over time. This study of human groups assists students to learn who we are, to get closer to the truth about the social work, and to become aware of ways to achieve desired social ends. Sociology, like other social science disciplines does not educate students in specialized skills. Sociology and other liberal arts majors stress the ability to observe, organize and write clearly, as well as the development of skills in the analysis of data and in collaborating with others.

### Learning Outcome(s):

1. Demonstrate an understanding of how social structures (families, schools, churches, laws) influence day to day experiences of individuals.
2. Analyze and evaluate social, political, and/or cultural arguments, across a variety of areas such as inequality; social problems; and race, class, and gender.
3. Identify and describe the theories and research methods that are foundational to sociological knowledge and research.

### 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

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

## SOCIOLOGY FOR TRANSFER Major (A.A.-T.)

### REQUIREMENTS FOR THE DEGREE

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

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

#### 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. Required for the major (3.0 units)

Units: 3.0

SOC 101	Introduction to Sociology	3.0
---------	---------------------------	-----

#### Select six/seven (6-7) units from:

Units: 6.0-7.0

SOC 102	Contemporary Social Problems	3.0
---------	------------------------------	-----

4.0

MATH 119	Elementary Statistics	4.0
----------	-----------------------	-----

OR

PSY 214	Statistical Methods in Behavioral Sciences	4.0
---------	--	-----

SOC 120	Introduction to Research Methods	3.0
---------	----------------------------------	-----

#### List A: Select two courses (6.0 units):

Units: 6.0

Any required course not already used.

SOC 110	Marriage and the Family	3.0
---------	-------------------------	-----

AJ 224	Criminology	3.0
--------	-------------	-----

SOC 150	Sociology of Minority Groups	3.0
---------	------------------------------	-----

SOC 206 (same as PSY 206)	Social Psychology	3.0
------------------------------	-------------------	-----

#### List B: Select one course (3.0 units):

Units: 3.0

Any course not already used above.

ANTH 102	Cultural Anthropology	3.0
----------	-----------------------	-----

GEOG 102	Cultural Geography	3.0
----------	--------------------	-----

PSY 101	Introduction to Psychology	3.0
---------	----------------------------	-----

Total: 18.0-19.0

## SPANISH for TRANSFER – Major (A.A.-T.)

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.

### Learning Outcome(s):

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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

• 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

## SPANISH FOR TRANSFER Major (A.A.-T.)

### REQUIREMENTS FOR THE DEGREE

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

**Eighteen to Twenty Three (18.0-23.0) units required for the major.**

#### 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

#### Required courses for the major (5.0-20.0 units)

**Units: 18.0-23.0**

\*NOTE: Students placing out of required courses must select additional courses in order to reach the minimum units required for the major. Additional units may be selected from List A if not already used or from the Substitution Course list.

SPAN 100	Elementary Spanish I	5.0
SPAN 110	Elementary Spanish II	5.0
		5.0
SPAN 200	Intermediate Spanish I	5.0
OR		
SPAN 220	Spanish for Heritage Speakers I	5.0
		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)

CHIC 100	Introduction to Chicana/o Studies	3.0
CHIC 180 (same as SOC 180)	La Chicana	3.0
CHIC 110	Chicana/o Heritage	3.0
ENGL 257	Survey of Chicana/o Literature	3.0
SPAN 222	Bilingual Oral Spanish	3.0
SPAN 225	Introduction to Spanish American Literature	3.0

#### Substitution Courses (select as needed to reach 18 units):

ANTH 102	Cultural Anthropology	3.0
COMM 150	Intercultural Communication	3.0
HIST 130	Early Latin America	3.0
HIST 131	Modern Latin America	3.0
HIST 132	History of Mexico	3.0
HIST 225	Mexican American History	3.0
SOC 101	Introduction to Sociology	3.0
SPAN 223	Spanish Reading and Writing	4.0

**Total: 18.0-23.0**



## STUDIO ARTS for TRANSFER – Major (A.A.-T.)

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.

### Learning Outcome(s):

1. Critically analyze, interpret, and evaluate works of art.
2. Develop a foundation of art skills and a high level of craftsmanship by utilizing a variety of tools and technologies associated with the visual arts.
3. Identify the theoretical, cultural, and historical contexts of art.
4. Demonstrate appropriate skills needed to articulate their conscious artistic intentions, and express coherent aesthetics.
5. Demonstrate an awareness of global events through artwork.

### 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 60 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://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.

• 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

## STUDIO ARTS FOR TRANSFER Major (A.A.-T.)

### REQUIREMENTS FOR THE DEGREE

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

Twenty-four (24.0) units required for the major.

#### 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

Required courses for the major (12.0 units)		Units: 12.0
ART 102	History of Art II	3.0
ART 110	2-D Foundations	3.0
ART 112	3-D Foundations	3.0
ART 120	Drawing I	3.0
List A: Select one (3 units)		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)		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
		Total: 24.0

## UNIVERSITY STUDIES – Major (A.A.)

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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

## UNIVERSITY STUDIES Major

### ASSOCIATE DEGREE REQUIREMENTS

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

#### 1. Graduation Requirements - PLAN 1 GE Pattern Only

A. Complete all IVC Graduation and Institutional Requirements

#### 2. General Education (GE) - For ALL GE PLANS (1, 2, and 3)

a. CSU GE-Breadth Pattern (39.0 units)

b. IGETC Pattern (34.0-37.0 units)

#### 3. Minimum of eighteen (18) units in one selected Emphasis

18.0

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.

## UNIVERSITY STUDIES Arts and Humanities

### *Emphasis in Arts and Humanities*

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

These courses emphasize the study of cultural, literary, humanistic activities and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students will also learn to value aesthetics and understanding and incorporate these concepts when constructing value judgments.

This area of emphasis allows students to select courses that will prepare them for possible majors at four-year colleges and universities, typically within the fields of Art History, Communication Studies, Language Studies, Literature, Humanities, Philosophy/Religious Studies and other related disciplines.

AMSL 100	American Sign Language 1	4.0
AMSL 102	American Sign Language 2	4.0
AMSL 104	Fingerspelling and Numbers	3.0
AMSL 200	American Sign Language 3	4.0
AMSL 202	American Sign Language 4	4.0
AMSL 204	American Sign Language 5	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
CHIC 100	Introduction to Chicana/o Studies	3.0
COMM 100	Oral Communication	3.0
COMM 110	Advanced Oral Communication	3.0
COMM 125	Interpersonal Communication	3.0
COMM 130	Small Group Communication	3.0
COMM 150	Intercultural Communication	3.0
COMM 180	Argumentation and Debate	3.0
ENGL 102	Introduction to Literature	3.0
ENGL 210	Children's Literature	3.0
ENGL 220	Survey of American Literature I	3.0
ENGL 221	Survey of American Literature II	3.0
ENGL 224	Survey of British Literature I	3.0
ENGL 225	Survey of British Literature II	3.0
ENGL 250	Creative Writing	3.0
ENGL 257	Survey of Chicana/o Literature	3.0
ESL 106	Academic Discourse Through US Cultures	5.0
ESL 107	Academic Discourse Through World Cultures	5.0
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 120	United States History: Prehistory to Reconstruction	3.0
HIST 121	United States History: Reconstruction to the Present	3.0
HIST 130	Early Latin America	3.0
HIST 131	Modern Latin America	3.0
HIST 132	History of Mexico	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

## UNIVERSITY STUDIES Arts and Humanities (Continued)

HUM 100	Introduction to the Humanities	3.0
HUM 226	Introduction to Mythology	3.0
MUS 100	Introduction to Music Foundations	3.0
MUS 102	Intro to Music Literature & Listening	3.0
MUS 106	Music History Survey 1750 to Present - Western European and Selected Global Cultures	3.0
PHIL 100	Introduction to Philosophy I	3.0
PHIL 102	Introduction to Philosophy II	3.0
PHIL 106	Logic	3.0
RELS 100	Religions of the Modern World	3.0
RELS 104	Ethics	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	Spanish for Heritage Speakers I	5.0
SPAN 221	Spanish for Heritage Speakers II	5.0
SPAN 225	Introduction to Spanish American Literature	3.0
THEA 100	Introduction to Theatre	3.0

## UNIVERSITY STUDIES Behavioral and Social Sciences

### *Emphasis in Behavioral and Social Sciences*

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

These courses emphasize the 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 study about themselves and others as members of a larger society. Topics and discussion to stimulate critical thinking about ways people have acted in response to their societies will allow students to evaluate how societies and social subgroups operate.

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

AJ 100	Introduction to the Administration of Justice	3.0
AJ 102	Concepts of Criminal Law	3.0
AJ 106	Principles & Procedures of the Justice System	3.0
AJ 224	Criminology	3.0
AIS 106	Indians of North America	3.0
AIS 108	Indians of the Southwest	3.0
AMSL 110	Introduction to Deaf Culture	3.0
ANTH 102	Cultural Anthropology	3.0
ANTH 120	Introduction to Archaeology	3.0
CDEV 103	Child, Family and Community	3.0
CDEV 104	Child Growth and Development	3.0
CHIC 110	Chicana/o Heritage	3.0
ECON 101	Introduction to Micro Economics	3.0
ECON 102	Introduction to Macro Economics	3.0
GEOG 102	Cultural Geography	3.0
GEOG 108	World Regional Geography	3.0
GLST 101	Introduction to Global Studies	3.0
GLST 102	Global Issues	3.0

## UNIVERSITY STUDIES Behavioral and Social Sciences (Continued)

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 the Present	3.0
HIST 130	Early Latin America	3.0
HIST 131	Modern Latin America	3.0
HIST 132	History of Mexico	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
POLS 100	Introduction to Political Science	3.0
POLS 102	American Government & Politics	3.0
POLS 104	Comparative Politics	3.0
POLS 106	Introduction to International Relations	3.0
POLS 108	Introduction to Political Theory and Thought	3.0
POLS 110	American Institutions and History	4.0
PSY 101	Introduction to Psychology	3.0
PSY 104	Child Growth and Development	3.0
PSY 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 204	Developmental Psychology: Conception to Death	3.0
PSY 208	Abnormal Psychology	3.0
PSY 211	Cognitive Psychology	3.0
PSY 212	Research Methods in Psychology	3.0
SOC 101	Introduction to Sociology	3.0
SOC 102	Contemporary Social Problems	3.0
SOC 110	Marriage and the Family	3.0
SOC 150	Sociology of Minority Groups	3.0
SOC 180	La Chicana	3.0
SOC 206	Social Psychology	3.0
SW 220	Introduction to Social Work	3.0

## UNIVERSITY STUDIES Science and Mathematics

### *Emphasis in Science and Mathematics*

Select a minimum of 18 units from the following Science and Mathematics courses. Required - one mathematics course above the level of intermediate algebra. For depth, include a minimum of two courses from a single discipline; for breadth, include courses from at least two disciplines. Courses can be counted toward 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 of intermediate algebra. Students will be able to demonstrate an understanding of the methodologies of science as investigative tools. Students will also examine the influence that the acquisition of scientific knowledge has on the development of the world's civilizations.

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

## UNIVERSITY STUDIES Science and Mathematics (Continued)

AG 110	Environmental Science	3.0
AG 120	Soil Science	3.0
AG 140	Principles of Plant Science	4.0
AG 170	Principles of Entomology	3.0
ASTR 100	Principles of Astronomy	3.0
BIOL 100	Principles Of Biological Science	4.0
BIOL 124	Biology of Animals	4.0
BIOL 140	General Botany	3.0
BIOL 150	Human Genetics	3.0
BIOL 180	General Biology: Molecules, Cells & Genetics	4.0
BIOL 182	General Biology: Principles of Organismal Biology	4.0
BIOL 200	Human Anatomy and Physiology I	4.0
BIOL 202	Human Anatomy and Physiology II	4.0
BIOL 204	Human Anatomy	4.0
BIOL 206	Human Physiology	4.0
BIOL 220	General Microbiology	5.0
CHEM 100	Introduction To Chemistry	4.0
CHEM 200	General Inorganic Chemistry I	5.0
CHEM 202	General Inorganic Chemistry II	5.0
CHEM 230	Analytical Chemistry	5.0
CIS 101	Introduction to Information Systems	3.0
CIS 202	Programming Concepts and Methodologies	3.0
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
CS 240	Discrete Structures	3.0
CS 281	Assembly Language and Machine Organization	3.0
ENGR 210	Statics	3.0
ENGR 212	Dynamics	3.0
ENGR 240	Electric Circuit Analysis	3.0
ENVS 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
MATH 110	Number Systems in Elementary Mathematics	3.0
MATH 112	Geometry in Elementary Mathematics	3.0
MATH 119	Elementary Statistics	4.0
MATH 122	Finite Mathematics	3.0
MATH 140	Trigonometry	3.0
MATH 150	College Algebra	4.0
MATH 170	Introductory Calculus with 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	Introduction to Linear Algebra with Applications	3.0
MATH 240	Discrete Mathematics	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

Total: 18.0

## WATER TREATMENT SYSTEMS TECHNOLOGY – Major (A.S.) and Certificates

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 Associate in Science degree is designed to provide students with the comprehensive understanding and manipulative skills, technical knowledge, and related trade information required to become State-certified operators in Water Treatment and Water Distribution. This program will allow students to comply with the necessary requirements for certification up to Grade III level. Once the student becomes a State-certified operator on any or all disciplines, he or she will qualify to seek employment in the Water Treatment Systems Technology disciplines anywhere in the State.

### Learning Outcome(s):

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 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

Water Treatment Plant Operator, Wastewater Treatment Plant Operator, Water Distribution Operator



## WATER TREATMENT SYSTEMS TECHNOLOGY Major (A.S.)

Eighteen (18) 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

Units: 18.0

WT 105	Computational Procedures Operator I	3.0
WT 110	Water Treatment Plant Operator I	4.0
WT 140	Water Distribution Systems	4.0
WT 205	Computational Procedures Operator II	3.0
WT 210	Water Treatment Plant Operator II	4.0
		Total: 18.0

## 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

Units: 18.0

WT 105	Computational Procedures Operator I	3.0
WT 110	Water Treatment Plant Operator I	4.0
WT 140	Water Distribution Systems	4.0
WT 205	Computational Procedures Operator II	3.0
WT 210	Water Treatment Plant Operator II	4.0
		Total: 18.0

## WATER TREATMENT SYSTEMS TECHNOLOGY: WASTEWATER TREATMENT SPECIALIZATION Certificate

### Learning Outcome(s):

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.

Thirty (30) 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 (12.0 plus 18.0 major units)

Units: 30.0

The Specialization Certificate demonstrates a completion of coursework IN ADDITION to the major (18 units) in Water Treatment Systems Technology.

WT 130	Wastewater Treatment Operator I	4.0
WT 150	Wastewater Collection Systems	4.0
WT 230	Wastewater Treatment Operator II	4.0
Major Units		18.0
		Total: 30.0

## WELDING TECHNOLOGY – Major (A.S.) and Certificate

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 Arc Welding (“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”).

### Learning Outcome(s):

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, (4) 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 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### CAREER OPPORTUNITIES

Assembly Worker, Auto Body Worker, Machine Tool Operator, Tool and Die Maker, 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

### WELDING TECHNOLOGY Major (A.S.)

**Twenty-one (21) 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

**Units: 21.0**

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: 21.0**

#### Twenty-one (21) 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

**Units: 21.0**

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: 21.0**



# **APPRENTICESHIP TRAINING PROGRAMS**

## APPRENTICESHIP TRAINING PROGRAMS

Apprenticeship training programs provide the participant an opportunity for formal training consisting of a balance between on-the-job training (OJT) and technical related and supplemented instruction (RSI) directly associated with the particular trade or industry. The OJT is coordinated through the Imperial Irrigation District (IID) and the RSI is provided by Imperial Valley College (IVC). Most apprenticeship positions are in Imperial Valley, but some are available in the Palm Springs area.

To be eligible to participate in any of the apprenticeship training programs, an individual must apply for an available apprenticeship position with the IID and be hired as an apprentice. Open apprentice positions are listed as apprentice positions at [www.iid.com](http://www.iid.com). Applications can be submitted online. For questions about available positions, you may contact the IID Human Resources Office at (760) 482-9618.

Apprenticeship programs consist of eight (8) courses. All apprentices are required to successfully complete the same first four courses, ELTT 101-104, which may be taken prior to or after being hired as an apprentice. Only apprentices may take the last four courses, AP\*\* 105-108, which correspond to their apprenticeship position. For example, an Electrician Apprentice will take APEL 105-108 and a Generation Mechanic will take APGN 105-108.

ELTT 101-104 courses are open to everyone, including non-apprentices. For non-apprentices completing ELTT 101-104, refer to the Electrical Trades program listing in the IVC General Catalog for more information.

### CAREER OPPORTUNITIES

Upon being hired as an IID apprentice, apprentices begin working with the IID in order to complete their on-the-job-training requirement, while taking the college courses. Upon fulfillment of all requirements, apprentices are prepared to take the CA State Journeyman Exam. Upon successful passing of this exam, apprentices receive their CA Journeyman Card. They then promote from IID Apprentice to IID Journeyman.

While completion of the ELTT 101-104 courses for non-apprentices does not require nor assure employment with the IID, it does place an individual in a better position to seek employment. Non-apprentices should refer to the Electrical Trades program listing in the IVC General Catalog for more information.

### APPRENTICESHIP COURSE CLASSROOMS AT IMPERIAL IRRIGATION DISTRICT (IID) LOCATIONS

**IID – ECTR** – El Centro Executive Training Center  
**IID – ECCL** – El Centro Computer Lab  
*1284 Main St., El Centro, CA 92243*

**IID – ECBB** – El Centro Bell Building  
**IID – RL** – Relays Room  
*2151 W. Adams Ave., El Centro, CA 92243*

**IID – ECGS** – Generation Station  
**IID – SP** – Steam Plant  
*485 W. Villa Rd., El Centro, CA 92243*

**IID – ELSH** – Electric Shop  
**IID – SBEL** – Substation Electric Shop  
**IID – MS** – Meter Shop  
**IID – MTR** – Mechanical Training Room  
**IID – PD** – Power Dock  
**IID – TLSH** – Telecommunications Shop  
**IID – WC** – Water Control  
*333 E. Barioni Blvd., Imperial, CA 92251*

**IID – HYDROS**  
*3675 E. Hwy. 98, Holtville, CA 92250*

**IID – LQ – C** – La Quinta Computer Lab  
**IID – LQ – F** – La Quinta Forman's Room  
**IID – LQ – M** – La Quinta Meter Shop  
*81600 Ave. 58, La Quinta, CA 92253*

## APPRENTICESHIP: CONTROL OPERATOR - Certificate

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 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.

### Learning Outcome(s):

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.

### 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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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.

Thirty-two (32) 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 (32.0 units).		32.0
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
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: 32.0

## APPRENTICESHIP: ELECTRICIAN – Major and Certificate

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 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.

### Learning Outcome(s):

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 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

**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.

**Thirty-two (32) units required for the Major and Certificate.**

**The Major requires completion of a selected General Education pattern. Please refer to the Degrees, Certificates and Transfer Planning for more information.**

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

<i>I. Required courses (32.0 units).</i>		32.0
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
APEL 105	Electrician V	4.0
<i>Select one from either APEL 106 or APLN 106</i>		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
		<b>Total: 32.0</b>



## APPRENTICESHIP: GENERATION MECHANIC – Major and Certificate

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 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.

### Learning Outcome(s):

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 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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.

**Thirty-two (32) units required for the Major and Certificate.**

**The Major requires completion of a selected General Education pattern. Please refer to the Degrees, Certificates and Transfer Planning for more information.**

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

<i>I. Required courses (32.0 units).</i>		32.0
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
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: 32.0

## APPRENTICESHIP: HYDRO OPERATOR - Certificate

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 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.

### Learning Outcome(s):

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.

### 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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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.

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

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

<i>I. Required courses for the certificate (32.0 units).</i>		32.0
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
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: 32.0

## APPRENTICESHIP: INSTRUMENT TECHNICIAN - Certificate

The Instrument Technician Apprenticeship Program will prepare students to inspect, adjust, and repair electrically and pneumatically 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 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.

### Learning Outcome(s):

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.

### 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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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.

Thirty-two (32) 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 (32.0 units).		32.0
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
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: 32.0

## APPRENTICESHIP: METER TECHNICIAN – Major and Certificate

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 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.

### Learning Outcome(s):

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 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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.

**Thirty-two (32) units required for the Major and Certificate.**

**The Major requires completion of a selected General Education pattern. Please refer to the Degrees, Certificates and Transfer Planning for more information.**

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

<i>I. Required courses (32.0 units).</i>		32.0
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
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: 32.0

## APPRENTICESHIP: POWER LINEMAN – Major and Certificate

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 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.

### Learning Outcome(s):

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 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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.

**Thirty-two (32) units required for the Major and Certificate.**

**The Major requires completion of a selected General Education pattern. Please refer to the Degrees, Certificates and Transfer Planning for more information.**

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

<i>I. Required courses (32.0 units).</i>		32.0
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
APLN 105	Power Lineman V	4.0
APLN 106	Power Lineman VI	4.0
APLN 107	Power Lineman VII	4.0
APLN 108	Power Lineman VIII	4.0
<b>Total:</b>		<b>32.0</b>



## APPRENTICESHIP: RELAYS TECHNICIAN – Major and Certificate

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 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.

### Learning Outcome(s):

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 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

**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.

**Thirty-two (32) units required for the Major and Certificate.**

**The Major requires completion of a selected General Education pattern. Please refer to the Degrees, Certificates and Transfer Planning for more information.**

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

<i>I. Required courses (32.0 units).</i>		32.0
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
APRL 105	Relays Technician V	4.0
<i>Select one from either APRL 106 or APLN 106</i>		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: 32.0

# APPRENTICESHIP: SCADA/TELECOMMUNICATIONS TECHNICIAN – Major and Certificate

The SCADA/Telecommunications Technician Apprenticeship Program will prepare students to install, maintain, test, and repair the Imperial Irrigation District's SCADA, data communication, generation control, and associated power plant systems.

Apprenticeship training programs provide the participant an opportunity for formal training consisting of a balance between on-the-job training (OJT) and technical related and supplemented instruction (RSI) directly associated with the particular trade or industry. The OJT is coordinated through the Imperial Irrigation District (IID) and the RSI is provided by Imperial Valley College. To be eligible to participate in any of the apprenticeship training programs, an individual must be an employee of the IID. 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.

## Learning Outcome(s):

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 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.

## 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.

## 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

**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.

**Thirty-two (32) units required for the Major and Certificate.**

**The Major requires completion of a selected General Education pattern. Please refer to the Degrees, Certificates and Transfer Planning for more information.**

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

<i>I. Required courses (32.0 units).</i>		32.0
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
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: 32.0

## APPRENTICESHIP: SUBSTATION-ELECTRICIAN – Major and Certificate

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, 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 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.

### Learning Outcome(s):

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 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.

### 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.

### 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](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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.

**Thirty-two (32) units required for the Major and Certificate.**

**The Major requires completion of a selected General Education pattern. Please refer to the Degrees, Certificates and Transfer Planning for more information.**

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

<i>I. Required courses (32.0 units).</i>			32.0
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
APSB 105	Substation-Electrician V		4.0
<i>Select one from either APSB 106 or APLN 106</i>			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
			<b>Total: 32.0</b>

# APPRENTICESHIP: TELECOMMUNICATIONS TECHNICIAN - Certificate

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 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.

### Learning Outcome(s):

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.

### 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](http://www.imperial.edu/students/financial-aid-and-scholarships)

### 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.

Thirty-two (32) 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 (32.0 units).			32.0
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
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: 32.0

## 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 (4.0 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 (4.0 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 (4.0 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 (4.0 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 (4.0 Units)

#### Electrician VI

Term Hours: 72 Lec, 0 Lab

#### Letter Grade Only

Prerequisite: APEL 105 - Electrician V.

Comprehensive review in AC theory and advanced training in control equipment, (i.e., capacitors, reactors, and circuit

breakers), review of high voltage terminations, relays and transformers. Implementation and review of safety regulations applicable to switchyards, substations and confined spaces. (Nontransferable, AA/AS degree only)

### APEL 107 (4.0 Units)

#### Electrician VII

Term Hours: 72 Lec, 0 Lab

#### Letter Grade Only

Prerequisite: APEL 106 - Electrician VI

Instruction in Right-of-Ways/Easements, Flash outs and Electrical Burns. Training in a broad scope of areas usual to the power utility industry (i.e., meters, cable fault location, etc.). Review of various safety issues appropriate to the power utility industry. (Nontransferable, AA/AS degree only)

### APEL 108 (4.0 Units)

#### Electrician VIII

Term Hours: 72 Lec, 0 Lab

#### Letter Grade Only

Prerequisite: APEL 107 - Electrician VII.

Comprehensive review of practical electrical wiring including residential and commercial wiring systems. Review of construction safety and the use of test equipment, small electrical devices and transformers. Advanced apprentice training in resistance and wire size and Title VIII Underground and overhead work. Preparation for the National Electrical Code Journey Exam. (Nontransferable, AA/AS degree only)

## APPRENTICESHIP-GENERATION MECHANIC

### APGN 105 (4.0 Units)

#### Generation Mechanic V

Term Hours: 72 Lec, 0 Lab

#### Letter Grade Only

Prerequisite: ELTT 104 - Electrical Trades IV.

Comprehensive review in AC theory, application and generation line systems augmented with an introduction of hydro electric power, generation, dispatching, hydro power operations and related construction standards. (Nontransferable, AA/AS degree only)

### APGN 106 (4.0 Units)

#### Generation Mechanic VI

Term Hours: 72 Lec, 0 Lab

#### Letter Grade Only

Prerequisite: APGN 105 - Generation Mechanic V.

Advanced review in AC theory, application and generation line systems augmented with an introduction of hydro electric power, generation, dispatching, hydro power operations and related construction standards. (Nontransferable, AA/AS degree only)

### APGN 107 (4.0 Units)

#### Generation Mechanic VII

Term Hours: 72 Lec, 0 Lab

#### Letter Grade Only

Prerequisites: APGN 106 - Generation Mechanic VI.

Advanced theory in the use of rules and regulations, specialized equipment, repair and maintenance of hydro-generators, safety practices, local and state requirements, and control systems. (Nontransferable, AA/AS degree only)

### APGN 108 (4.0 Units)

#### Generation Mechanic 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 (4.0 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 (4.0 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 (4.0 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 (4.0 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 (4.0 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 (4.0 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 (4.0 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 (4.0 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 (4.0 Units)**

**Meter Technician V**

**Term Hours: 72 Lec, 0 Lab**  
**Letter Grade Only**

Prerequisite: ELTT 104 - Electrical Trades IV.  
Comprehensive review in AC theory and basic wiring for meter installations, working on de-energized lines, rigging for high voltage work, troubleshooting and testing for meter failures. (Nontransferable, AA/AS degree only)

**APMT 106 (4.0 Units)**

**Meter Technician VI**

**Term Hours: 72 Lec, 0 Lab**  
**Letter Grade Only**

Prerequisite: APMT 105 - Meter Technician V.  
The basic principles in the construction, operation, maintenance procedures and print reading associated with substations and switchyards. (Nontransferable, AA/AS degree only)

**APMT 107 (4.0 Units)**

**Meter Technician VII**

**Term Hours: 72 Lec, 0 Lab**  
**Letter Grade Only**

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 (4.0 Units)**

**Meter Technician VIII**

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

**Letter Grade Only**

Prerequisite: APMT 107 - Meter Technician VII.

Advanced theory in the use of specialized test equipment, repair and maintenance of motors, generators and pumps, safety practices, local and state requirements, and electrical mathematics. (Nontransferable, AA/AS degree only)

## APPRENTICESHIP-POWER LINEMAN

**APLN 105 (4.0 Units)**

**Power Lineman V**

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

**Letter Grade Only**

Prerequisite: ELTT 104 - Electrical Trades IV.

Comprehensive review in AC theory and advanced training in distribution line maintenance (i.e., transmission structures, transmission line installation, climbing steel poles and towers, working on de-energized lines, rigging for high voltage work, hot transmission line repair, using temporary structures, and usage of gloves and hot sticks). (Nontransferable, AA/AS degree only)

**APLN 106 (4.0 Units)**

**Power Lineman VI**

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

**Letter Grade Only**

Prerequisite: APLN 105 - Power Lineman V.

The basic principles in the construction, operation, and maintenance procedures associated with substations and switchyards. (Nontransferable, AA/AS degree only)

**APLN 107 (4.0 Units)**

**Power Lineman VII**

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

**Letter Grade Only**

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 (4.0 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 (4.0 Units)**

**Relays Technician V**

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

**Letter Grade Only**

Prerequisite: ELTT 104 - Electrical Trades IV.

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

**APRL 106 (4.0 Units)**

**Relays Technician VI**

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

**Letter Grade Only**

Prerequisite: APRL 105 - Relays Technician V.

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

**APRL 107 (4.0 Units)**

**Relays Technician VII**

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

**Letter Grade Only**

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 (4.0 Units)**

**Relays Technician VIII**

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

**Letter Grade Only**

Prerequisite: APRL 107 - Relays Technician VII.

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

## APPRENTICESHIP-SCADA/ TELECOMMUNICATIONS TECHNICIAN

**APSC 105 (4.0 Units)**

**SCADA/Telecommunications Technician V**

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

**Letter Grade Only**

Prerequisite: ELTT 104 - Electrical Trades IV.

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

**APSC 106 (4.0 Units)**

**SCADA/Telecommunications Technician VI**

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

**Letter Grade Only**

Prerequisite: APSC 105 - SCADA/Telecommunications Technician V.

Comprehensive review in AC theory and advanced training in distribution line maintenance (i.e., transmission structures, transmission line installation, climbing steel poles and towers, working on de-energized lines, rigging for high voltage work, hot

transmission line repair, using temporary structures, and the safe use of gloves and hotsticks). (Nontransferable, AA/AS degree only)

**APSC 107 (4.0 Units)**

**SCADA/Telecommunications Technician VII**

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

**Letter Grade Only**

Prerequisite: APSC 106 - SCADA/Telecommunications Technician VI.

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

**APSC 108 (4.0 Units)**

**SCADA/Telecommunications Technician VIII**

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

**Letter Grade Only**

Prerequisite: APSC 107 - SCADA/Telecommunications Technician VII.

Comprehensive review of industry standards relative to constructing microwave and telecommunication systems. Review of construction safety and the use of test equipment, small electrical devices and transformers. Advanced apprentice training in resistance and wire size and Title VIII Underground and overhead work. (Nontransferable, AA/AS degree only)

### **APPRENTICESHIP-SUBSTATION-ELECTRICIAN**

**APSB 105 (4.0 Units)**

**Substation - Electrician V**

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

**Letter Grade Only**

Prerequisite: ELTT 104 - Electrical Trades IV.

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

**APSB 106 (4.0 Units)**

**Substation-Electrician VI**

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

**Letter Grade Only**

Prerequisite: APSB 105 - Substation-Electrician V.

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

**APSB 107 (4.0 Units)**

**Substation-Electrician VII**

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

**Letter Grade Only**

Prerequisite: APSB 106 - Substation-Electrician VI or APLN 106 Power Lineman VI.

Theory and practicum in the procedures for recognizing easements and right-of-ways, extensive overview of watt hour installations, installation and maintenance of circuit breakers

and review of basic business protocols. (Nontransferable, AA/AS degree only)

**APSB 108 (4.0 Units)**

**Substation-Electrician VIII**

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

**Letter Grade Only**

Prerequisite: APSB 107 - Substation-Electrician VII.

Advanced theory in the use of specialized equipment, repair and maintenance of circuit breakers and regulators, safety practices, review of local and state construction requirements. (Nontransferable, AA/AS degree only)

### **APPRENTICESHIP-TELECOMMUNICATIONS TECHNICIAN**

**APTL 105 (4.0 Units)**

**Telecommunications Technician V**

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

**Letter Grade Only**

Prerequisite: ELTT 104 - Electrical Trades IV.

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

**APTL 106 (4.0 Units)**

**Telecommunications Technician VI**

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

**Letter Grade Only**

Prerequisite: APTL 105 - Telecommunications Technician V.

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

**APTL 107 (4.0 Units)**

**Telecommunications Technician VII**

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

**Letter Grade Only**

Prerequisite: APTL 106 - Telecommunications Technician VI.

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

**APTL 108 (4.0 Units)**

**Telecommunications Technician VIII**

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

**Letter Grade Only**

Prerequisite: 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)



## **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](http://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](http://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.

## ACCOUNTING

### ACCT 099 (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 100) (C-ID BSOT 127X) (Nontransferable, AA/AS degree only)

### ACCT 210 (4.0 Units)

#### Principles of Financial Accounting

Term Hours: 72 Lec, 18 Lab

Letter Grade Only

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. (Formerly BUS 210) (C-ID ACCT 110) (CSU/UC)

### ACCT 220 (4.0 Units)

#### Principles of Managerial Accounting

Term Hours: 72 Lec, 18 Lab

Letter Grade Only

Prerequisite: ACCT 210 (Formerly 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. (Formerly BUS 220) (C-ID ACCT 120) (CSU/UC)

### ACCT 240 (3.0 Units)

#### Computer Accounting-QuickBooks

Term Hours: 36 Lec, 36 Activity Lab

Letter Grade or Pass/No Pass

Prerequisite: ACCT 210 (Formerly BUS 210) or ACCT 099 (Formerly BUS 100) 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. (Formerly BUS 240) (CSU)

## ADDICTION DISORDER STUDIES

### ADS 101 (3.0 Units)

#### Introduction to Addiction Studies: 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. (C-ID ADS 140X) (CSU)

### 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 Dynamics of Addiction

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. (C-ID ADS 180X) (CSU)

### ADS 220 (3.0 Units)

#### Practicum

Term Hours: 22.5 Lec, 108 Lab

Letter Grade Only

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. (CSU)

## ADMINISTRATION OF JUSTICE

### ADS 221 (3.0 Units)

#### Practicum

Term Hours: 22.5 Lec, 108 Lab

#### Letter Grade Only

Prerequisite: ADS 220 with a grade of "C" or better.

A continuation of ADS 220 with an emphasis in gaining further experience in the same institution or agency or a different institution or agency. (CSU)

### ADS 230 (3.0 Units)

#### Alcohol and Drug Prevention and Education

Term Hours: 54 Lec, 0 Lab

#### Letter Grade Only

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 235 (3.0 Units)

#### Case Management and Documentation

Term Hours: 54 Lec, 0 Lab

#### Letter Grade Only

This course reviews the principles and practice of case management in addiction treatment including the processes of intake, screening, assessment, treatment planning, referral, and documentation. Professional and ethical codes of conduct and behavior are also reviewed and emphasized. The course will examine several models of addiction counseling and theoretical rationale of each. The course emphasizes therapeutic trials needed by a counselor working with the chemically addicted population. (C-ID ADS 170X) (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. (C-ID ADS 160X) (CSU)

### ADS 251 (3.0 Units)

#### Co-Occurring Disorders

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. (C-ID ADS 190X) (CSU)

### AJ 100 (3.0 Units)

#### Introduction to the Administration of Justice

Term Hours: 54 Lec, 0 Lab

#### Letter Grade Only

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

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

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

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

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**

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**

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 222 (3.0 Units)****Criminal Investigation****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

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**

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**

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. (C-ID SOCI 160) (CSU)

**AGRICULTURE****AG 110 (3.0 Units)****Environmental Science****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

This course is designed to provide students with an overview and understanding of the relationships between human populations and the natural environment. The class will focus on basic concepts of science and ecosystem theory, human impacts on the 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**

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. (C-ID AG-AB 124) (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: 54 Lec, 0 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 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**

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**

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)

**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 032 (2.0 Units)****Introduction to Working with Older Adults****Term Hours: 36 Lec, 0 Lab****Letter Grade or Pass/No Pass**

This course is designed to give an introduction to the common aging changes of the body and cognition, plus implications of age-related changes will be discussed. Study of the aging process from a gerontological perspective including changes in physical health, cognition, mental health, and social relationships later in life. The course will also cover the understanding of healthy aging as well as chronic conditions later in life; health behaviors and lifestyle factors that contribute to good health, and wellness practices that contribute to disease prevention and health promotion. (Nontransferable, AA/AS degree only)

**AHP 033 (2.0 Units)****Care of the Elderly****Term Hours: 36 Lec, 0 Lab****Letter Grade or Pass/No Pass**

This course will cover the functions and responsibilities of caregiving for older adults in both formal and informal settings. Students will explore physical as well as social and emotional needs of those receiving care. Topics include elder abuse, family caregiving, end of life care, death, dying and grief, older adult care issues and risk reduction and home safety. (Nontransferable, AA/AS degree only)

**AHP 060 (5.5 Units)****Health Assistant****Term Hours: 63 Lec, 108 Lab****Letter Grade Only**

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 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 the United States, northern Mexico, and Canada. This course covers the history of research based on archaeological and ethno-historical data, such as prehistory and early migration into the Americas. Linguistic, cultural, and religious diversity of the various Native American nations; the diverse geography and environment from the Arctic to the deserts of the American Southwest; the Great Basin; the Columbia Plateau region, and the Great Plains. Coastal areas of the Atlantic and Pacific regions, the impact of European colonialism on Native American cultures and contemporary issues will be discussed. (Same as ANTH 106) (CSU/UC)

**AIS 108 (3.0 Units)****Indians of the Southwest****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

This is an introductory course to the early archaeological and ethnological investigation of the American Southwest and Northern Mexico, the geography, environmental adaptation, settlement pattern, architecture, and arts and crafts of the prehistoric Mogollon, Hohokam, and Puebloan cultures, as well as a summary of the prehistory of the Sinagua, Salado, and Patayan cultures; theories of early migration into the Americas and into the Greater Southwest and the prehistoric influence of Mexico; discourse of the cultural diversity of customs, traditions, art, languages, and religious beliefs, as well as social structure of modern day Pueblos, Athapascan and Rancheria peoples of the American Southwest and northern Mexico. (Same as ANTH 108) (CSU/UC)

## AMERICAN SIGN LANGUAGE

### **AMSL 100 (4.0 Units)**

#### **American Sign Language 1**

**Term Hours: 54 Lec, 36 Activity 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 Activity 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 (4.0 Units)**

#### **American Sign Language 3**

**Term Hours: 54 Lec, 36 Activity Lab**

**Letter Grade or Pass/No Pass**

Recommended Preparation: AMSL 102.

This course continues the development of American Sign Language conversational skills, and awareness of specific ASL linguistic structures. Techniques of facial grammar, role shift, and classifier use as it relates to American Sign Language and Deaf Culture will be

studied. Students will expand their knowledge of ASL grammar, usage of space, and syntax. (CSU/UC)

### **AMSL 202 (4.0 Units)**

#### **American Sign Language 4**

**Term Hours: 54 Lec, 36 Activity Lab**

**Letter Grade or Pass/No Pass**

Recommended Preparation: AMSL 200.

The course is a continuation of the American Sign Language skills in 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 continued development of related idiomatic and vocabulary sign skills, interpreting skills, and interpreting in specialized settings. Students are presented and are asked to discuss in the target language the case studies related to the interpreter code of conduct. (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 the United States, northern Mexico, and Canada. This course covers the history of research based on archaeological and ethno-historical data, such as

prehistory and early migration into the Americas. Linguistic, cultural, and religious diversity of the various Native American nations; the diverse geography and environment from the Arctic to the deserts of the American Southwest; the Great Basin; the Columbia Plateau region, and the Great Plains. Coastal areas of the Atlantic and Pacific regions, the impact of European colonialism on Native American cultures and contemporary issues will be discussed. (Same as AIS 106) (CSU/UC)

**ANTH 108 (3.0 Units)**

**Indians of the Southwest**

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

**Letter Grade Only**

This is an introductory course to the early archaeological and ethnological investigation of the American Southwest and Northern Mexico, the geography, environmental adaptation, settlement pattern, architecture, and arts and crafts of the prehistoric Mogollon, Hohokam, and Puebloan cultures, as well as a summary of the prehistory of the Sinagua, Salado, and Patayan cultures; theories of early migration into the Americas and into the Greater Southwest and the prehistoric influence of Mexico; discourse of the cultural diversity of customs, traditions, art, languages, and religious beliefs, as well as social structure of modern day Pueblos, Athapascan and Rancheria peoples of the American Southwest and northern Mexico. (Same as AIS 108) (CSU/UC)

**ANTH 120 (3.0 Units)**

**Introduction to Archaeology**

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

**Letter Grade Only**

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 110 (3.0 Units)****2-D Foundations****Term Hours: 36 Lec, 54 Lab****Letter Grade Only**

Introduction to the concepts, applications, and historical references related to two-dimensional art and composition, including the study of the basic principles and elements of line, shape, texture, value, color and spatial illusion. Development of a visual vocabulary for creative expression through lecture presentations, studio projects, problem solving, and written assignments. Additional materials fee applies. (C-ID ARTS 100) (CSU/UC)

**ART 112 (3.0 Units)****3-D Foundations****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. (C-ID ARTS 110) (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**

Introduction to principles, elements, and practices of painting. Focus on exploration of painting materials, perceptual skills and color theory, paint mixing and technique, as well as creative responses to materials and subject matter. 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 130 (3.0 Units)****Life Drawing****Term Hours: 18 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). (C-ID ARTS 250) (CSU)

**ART 170 (3.0 Units)****Photography - Beginning****Term Hours: 36 Lec, 54 Lab****Letter Grade Only**

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.

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**

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 Activity 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 Activity 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 Activity 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.

This course emphasizes the continued instruction and practice required for the development of technical and aesthetic skills, elements of design and composition, camera technology, materials and equipment, and contemporary trends in photography. 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) (UC credit limited. See a counselor.)

**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) (UC credit limited. See a counselor.)

**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) (UC credit limited. See a counselor.)

## **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. (C-ID AUTO 110X) (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**

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 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. (C-ID AUTO 150X) (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**

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. (C-ID AUTO 170X) (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 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 disassembling, diagnosis calibrating, and testing different types of pumps and injectors. Proper servicing procedures will be followed in servicing, testing, and analyzing the fuel system and electrical circuits. (CSU)

**AU T 245 (4.0 Units)**

**Hydraulic and Pneumatic Systems**

**Term Hours: 36 Lec, 108 Lab**

**Letter Grade Only**

Prerequisite: AU T 140 with a grade of "C" or better.

This course covers the theory of fluid power, system design, troubleshooting, and repair of both hydraulic and pneumatic systems. Covers fundamental hydraulic and pneumatic schematics and circuits, including the function of components such as, pumps, valves, cylinders, motors, reservoirs, actuators, convertors, fluid conductors, and valves. Hands-on lab activities will be provided with equipment and devices used in the heavy equipment and agriculture industry. (CSU)

## 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 100 (4.0 Units)**

#### **Principles of Biological Science**

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

#### **Letter Grade Only**

Prerequisite: Appropriate placement as defined by AB705; or MATH 098 or 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 124 (4.0 Units)**

#### **Biology of Animals**

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

#### **Letter Grade Only**

Prerequisite: Appropriate placement as defined by AB705; or MATH 098 or MATH 091 with a grade of "C" or better.

Introduction to the basic principles of animal biology and diversity, including both invertebrate and vertebrate groups. Topics include: evolution, classification, anatomy, physiology, behavior and ecology. Biodiversity and current conservation issues are also included. (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 morphology, physiology, development, identification, systematics, ecological functions and the human uses of plants. Field trip(s)/activities are included within the course. (CSU/UC)

### **BIOL 150 (3.0 Units)**

#### **Human Genetics**

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

#### **Letter Grade Only**

Prerequisite: Appropriate placement as defined by AB705; or MATH 098 or 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: Appropriate placement as defined by AB705; or MATH 098 or 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. (C-ID BIOL 135 S with BIOL 182) (CSU/UC)

### **BIOL 182 (4.0 Units)**

#### **General Biology: Principles of Organismal Biology**

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

#### **Letter Grade Only**

Prerequisite: Appropriate placement as defined by AB705; or MATH 098 or 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; C-ID BIOL 135 S with BIOL 180) (CSU/UC)

### **BIOL 200 (4.0 Units)**

#### **Human Anatomy and Physiology I**

**Term Hours: 36 Lec, 108 Lab**

#### **Letter Grade Only**

Prerequisite: CHEM 100 and either BIOL 100 or BIOL 122 or BIOL 124 or BIOL 180 or BIOL 182 with a grades of "C" or better; or appropriate placement as defined by AB705, or MATH 098 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. (C-ID BIOL 115 S with BIOL 202) (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 appropriate placement as defined by AB705, MATH 098 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. (C-ID BIOL 115 S with BIOL 200) (CSU) (UC credit limited. See a counselor.)

**BIOL 204 (4.0 Units)****Human Anatomy****Term Hours: 36 Lec, 108 Lab****Letter Grade Only**

Prerequisite: BIOL 100 or BIOL 122 or BIOL 124 or BIOL 180 or BIOL 182, with grades of "C" or better; or appropriate placement as defined by AB705, or MATH 098 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 110 B) (CSU) (UC credit limited. See a counselor.)

**BIOL 206 (4.0 Units)****Human Physiology****Term Hours: 36 Lec, 108 Lab****Letter Grade Only**

Prerequisite: CHEM 100 and BIOL 204 with grades of "C" or better; or appropriate placement as defined by AB705, or MATH 098 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 120 B) (CSU) (UC credit limited. See a counselor.)

**BIOL 220 (5.0 Units)****General Microbiology****Term Hours: 54 Lec, 108 Lab****Letter Grade Only**

Prerequisite: CHEM 100 and either BIOL 100 or BIOL 120 or BIOL 124 or BIOL 180 or BIOL 182 with a grades of "C" or better; or appropriate placement as defined by AB705, or MATH 098 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. (CSU)

**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. (CSU)

**BLDC 120 (3.0 Units)****Computer Aided Design and Drafting – AutoCAD****Term Hours: 36 Lec, 54 Lab****Letter Grade Only**

Prerequisite: BLDC 110 with a grade of "C" or better.

This introductory course covers the fundamentals of AutoCAD and its application to the creation of technical drawings. Hands-on training utilizing a comprehensive overview of the software package and its applications to residential and commercial technical drafting is emphasized. (CSU)

**BLDC 130 (4.0 Units)****Carpentry Layout and Framing****Term Hours: 36 Lec, 108 Lab****Letter Grade Only**

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. (CSU)

**BLDC 135 (3.0 Units)****Residential Plumbing Applications****Term Hours: 36 Lec, 54 Lab****Letter Grade Only**

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. (CSU)

**BLDC 140 (3.0 Units)****Building Construction Methods and Materials****Term Hours: 36 Lec, 54 Lab****Letter Grade Only**

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. (CSU)

**BLDC 145 (3.0 Units)****Concrete Formwork, Layout, and Setting****Term Hours: 36 Lec, 54 Lab****Letter Grade Only**

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. (CSU)

## BUSINESS ADMINISTRATION

### **BLDC 150 (3.0 Units)**

#### **Carpentry Methods, Materials, and Tools**

**Term Hours: 18 Lec, 108 Lab**

#### **Letter Grade Only**

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. (CSU)

### **BLDC 180 (3.0 Units)**

#### **Building Planning and Cost Estimation**

**Term Hours: 36 Lec, 54 Lab**

#### **Letter Grade Only**

This course will present the subjects of planning and cost estimating to develop the knowledge of material determination, production quantities, and costs associated with construction. Included will be the understanding of the relationship between planning, estimating, and cost accounting in construction. (CSU)

### **BLDC 185 (4.0 Units)**

#### **Concrete Footings, Flatwork, and Detail Work**

**Term Hours: 36 Lec, 108 Lab**

#### **Letter Grade Only**

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. (CSU)

### **BLDC 190 (3.0 Units)**

#### **Carpentry Trim and Detail Work**

**Term Hours: 18 Lec, 108 Lab**

#### **Letter Grade Only**

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. (CSU)

### **BLDC 220 (3.0 Units)**

#### **Computer Aided Design and Drafting Advanced Concepts – AutoCAD**

**Term Hours: 36 Lec, 54 Lab**

#### **Letter Grade Only**

Prerequisite: BLDC 120 with a grade of "C" or better.

This course covers the concepts and applications of constructing digital three-dimensional (3D) models and photo-realistic renderings for presentation using AutoCAD. Advanced techniques for surface, wireframe, and solid modeling will be presented. Students will explore lighting, materials mapping, and rendering as they apply to architecture, engineering, and industrial design. Other software may be presented. (CSU)

### **BUS 058 (3.0 Units)**

#### **Customer Service in the Workplace**

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

#### **Letter Grade Only**

The customer service course is designed to provide key skills and attitude to effectively meet the needs of customers; to introduce elements in communication within business organizations; to provide an analysis of attitudes and behavior which create conflict between individuals and groups within an organization; to provide an understanding of how teams work together, common problems teams encounter and how to solve those problems; to provide key attitude skills; to provide an understanding of change and the influence it has on an organization and the individual in that organization; to introduce the student to decision making and problem solving; to acquaint students with the importance of values and ethics in the workplace; and to introduce time and stress management principles. (Nontransferable, AA/AS degree only)

### **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**

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. (C-ID BSOT 126X) (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. (C-ID BSOT 115 X) (Nontransferable, AA/AS degree only)

**BUS 108 (3.0 Units)****VITA/IRS Tax Preparation****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**

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 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 Activity 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 Activity Lab****Letter Grade or Pass/No Pass**

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 Activity Lab****Letter Grade or Pass/No Pass**

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 and Information 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**

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 Activity Lab****Letter Grade or Pass/No Pass**

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 260 (3.0 Units)****Business Communications****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

Prerequisite: ENGL 105 or 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: Appropriate placement as defined by AB705 or MATH 098 or 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 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 or C-ID CHEM 120 S with CHEM 202) (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 120 S with CHEM 200) (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. (C-ID CHEM 150; C-ID CHEM 160 S with CHEM 206) (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. (C-ID CHEM 160 S with CHEM 204) (CSU/UC)

**CHEM 230 (5.0 Units)**  
**Analytical Chemistry**  
**Term Hours: 54 Lec, 108 Lab**  
**Letter Grade Only**

Prerequisite: CHEM 202 with a grade of "C" or better.  
This is a course in chemical quantitative analysis. It is the study of the common techniques and theory of gravimetric and volumetric methods based on equilibria, oxidation-reduction and acid-base theory, spectrophotometry, chromatography and electroanalytical chemistry. Students will investigate experimental techniques pertinent to electronanalytical and spectrophotometric analytical methods. This course is for students who are interested in pursuing a career as a laboratory technician or who are majoring in chemistry, biochemistry, biology, bioengineering, forensics, pre-pharmacy, molecular biology, microbiology, Medical laboratory technology, and clinical laboratory science, and for those who want to gain practical analytical laboratory techniques. (CSU/UC)

## CHICANA/O STUDIES

**CHIC 100 (3.0 Units)**  
**Introduction to Chicana/o Studies**  
**Term Hours: 54 Lec, 0 Lab**  
**Letter Grade Only or Pass/No Pass**

This course offers an introduction to Chicana/o studies as an academic discipline. It focuses on its origins, development, and theories that contribute to its formation. Furthermore, it analyzes and evaluates Chicana/o perspectives on revisionist history; demographics; employment; political and socioeconomic trends; education; and the arts. This course will also examine, compare and contrast, such topics as cultural values, social organization, urbanization patterns of the Chicana/o in the U.S., migration, identity and gender roles 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. (Formerly HUM/SPAN 262) (CSU/UC)

**CHIC 110 (3.0 Units)**  
**Chicana/o Heritage**  
**Term Hours: 54 Lec, 0 Lab**  
**Letter Grade Only or Pass/No Pass**

This course examines cultural achievements and thought of Spanish-speaking peoples of North America; development of aesthetic and ethical values. North American intellectual history and influence of philosophical orientations of native and Mestizo peoples. This includes how Chicanas and Chicanos –and other Latinos– have adapted to the various cultural elements of U.S. society as compared to other groups. This course tracks racial formation by studying the sphere of cultural production, consumption, and contestation. (CSU/UC)

**CHIC 180 (3.0 Units)**  
**La Chicana**  
**Term Hours: 54 Lec, 0 Lab**  
**Letter Grade Only or Pass/No Pass**

This course provides students with a basic understanding of the Chicana/Mexican-American women in American society in historical and sociological perspective. The course explores the intersections of gender, race, ethnicity, and socio-economic class in Chicana identity and experiences. Themes include power and resistance; work, family and culture; cultural representations, and the interplay of social process on the development of identity. This course is designed for all students interested in Chicana(o) studies and students who are interested in a broader understanding of the principles, methodologies, value systems, and ethics employed in social scientific inquiry. (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**

Historical contexts and theoretical perspectives of developmentally appropriate practices in early care and education for children birth through age eight. Explores the typical roles and expectations of early childhood educators. Identifies professional ethics, career pathways, and professional standards. Introduces best practices for developmentally appropriate learning environments, curriculum, and effective pedagogy for young children, including play, how it contributes to children's learning, growth, and development. (C-ID ECE 120) (CSU)

**CDEV 101 (3.0 Units)**  
**Health, Safety and Nutrition**  
**Term Hours: 54 Lec, 0 Lab**  
**Letter Grade Only**

Introduction to the laws, regulations, standards, policies, procedures, and best practices related to health, safety, and nutrition in care and education settings for children from birth through middle childhood. This course includes the teacher's role in prevention strategies, nutrition and meal planning, integrating health, safety and nutrition experiences into the daily routines, and overall risk management to ensure physical health, mental health and safety for both children and staff. (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 processes of socialization focusing on the interrelationship of family, school, and community. Examines the influence of multiple societal contexts. Explores the role of collaboration between family, community, and schools in supporting children's development from birth through adolescence. (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 progression of development in the physical, cognitive, language, social, and emotional domains, and identifies developmental milestones for children, from conception through adolescence. Emphasis on interactions between biological processes and environmental factors. Based on 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 developmentally appropriate curriculum and environments for young children from birth through age eight. Students will use knowledge of child development, theories of learning and development, examine various models of developmentally appropriate practice, and observation and assessment strategies to plan environments and curriculum in all content areas to support children's development and learning integrated throughout indoor and outdoor settings. Emphasis on the essential role of play. (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 tools and strategies to document young children's development, growth, and learning. Includes the use of findings to inform and plan learning environments, curriculum, and experiences. Recording strategies, rating systems, portfolios, and multiple assessment methods/tools will be discussed along with strategies for collaboration with families and professionals. (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**

This course is an overview of language and literacy development in the first eight years of life. Participants will explore teaching strategies and practical skills to engage children in integrated listening, speaking, reading, and writing experiences. Emphasis on California Preschool Learning Foundations and Frameworks, and development of hands-on learning experiences for young children. Applicable to required or professional development units for Child Development Permit holders, pre-school, transitional kindergarten, and early-primary teachers. (CSU)

**CDEV 121 (2.0 Units)**  
**Art/Visual Arts for Young Children**  
**Term Hours: 36 Lec, 0 Lab**  
**Letter Grade Only**

Introduction to the visual arts domain of the California Preschool Learning Foundations and Frameworks including artistic Expression and response, and skill development in aesthetic and perceptual awareness 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. This course is applicable to required or professional development units for Child Development permit, preschool, transitional kindergarten and early primary teachers. (CSU)

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

Introduction to the mathematics and science domains of the California Preschool Learning Foundations and Frameworks including the mathematic strands of number sense, algebra and functions, measurement, geometry, and mathematical reasoning and the science strands of scientific inquiry, physical, life, and earth sciences. The course will provide practical strategies for implementing the curriculum frameworks science and math domains through planning of appropriate and environments. Applicable to required or professional development units for Child Development Permit holders, preschool, transitional kindergarten, and early-primary teachers. (CSU)



**CDEV 123 (2.0 Units)****Music and Movement/Performing Arts for Young Children****Term Hours: 36 Lec, 0 Lab****Letter Grade Only**

Introduction to the Performing Arts domain reflecting the concepts of the California Preschool Learning Foundations and Frameworks. This course provides practical strategies for implementing the curriculum strands of music, drama and dance (body movement) experiences for young children. Development of teacher skills with music instruments, drama, and motor skills and movement including familiarity with resource materials for program planning. Applicable to required or professional development units for Child Development Permit holders, pre-school, transitional kindergarten, and early-primary teachers. (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 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 a variety of early childhood classroom settings. Emphasis on children's social emotional development and teacher's role in working with parents to support children. (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.

A demonstration of developmentally appropriate early childhood program planning and 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. Reflective practice will be emphasized as student teachers design, implement, and evaluate approaches, strategies, and techniques that promote development and learning, including child-centered, play-oriented approaches to teaching and learning. Knowledge of curriculum content areas will be stressed. Includes exploration of career pathways, professional development, and teacher responsibilities. As a component of this course, students will be required to present a Comprehensive Portfolio following the Department's portfolio guidelines and complete a successful program exit interview. This course requires lecture and supervised lab. (C-ID ECE 210) (CSU)

**CDEV 210 (3.0 Units)****Administration I: Programs in Early Childhood Education****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

Prerequisite: CDEV 200 and its prerequisites.

Introduction to the administration of early childhood programs. This course incorporates basic management principles for early education programs, including program types, philosophies, curriculum development and implementation, regulations, laws, policies and procedures, budgeting, and parent and community relations. It

examines administrative tools and techniques needed to organize, open, and operate an early care and education program. (CSU)

**CDEV 211 (3.0 Units)****Administration II: Personnel and Leadership in Early Childhood Education****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 early care and education program, both public and private, in the state of California. Effective strategies of leadership and program management and personnel administration for early education settings serving children and families. Includes legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for diverse and inclusive early care and education programs. (CSU)

**CDEV 212 (3.0 Units)****Adult Supervision and Mentoring in Early Care and Education****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

A study of the methods and principles of adult supervision (students, volunteers, staff and other adults) in an early childhood setting. Topics covered include competence in personnel management, effective communication, how adults learn, and team building. Emphasis on the roles and development of Early Childhood Professionals as mentors and leaders. (CSU)

**CDEV 220 (3.0 Units)****Infant and Toddler Development****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

A study of infants and toddlers from pre-conception to age three including physical, cognitive, language, social, and emotional growth and development. Applies theoretical frameworks to interpret behavior and interactions between heredity and environment. Emphasizes the role of family and relationships in development. (CSU)

**CDEV 221 (3.0 Units)****Care and Education for Infants and Toddlers****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 apply current theory and research to the care and education of infants and toddlers in group settings. Examines essential policies, principles and practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months. Students must put in 5 Hrs. Lab TBA for the semester. (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**

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**

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**

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**

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**

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. (C-ID BSOT 106 X) (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. (C-ID BSOT 111 X) (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

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. (C-ID BSOT 121 X) (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. (C-ID BSOT 112 X) (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. (C-ID BSOT 122 X) (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. (C-ID BSOT 113 X) (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. (C-ID BSOT 114 X) (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. (C-ID BSOT 124 X) (CSU)

**CIS 137 (3.0 Units)****Web Development Tools****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

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: 54 Lec, 0 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**

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**

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 151 (3.0 Units)****Digital Video Production****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

This course focuses on the fundamental techniques, skills, and theories of editing as well as the technical requirements for assembling a digital video project. Through a series of hands-on projects, students will put traditional theories of picture and sound editing into practice with an in-depth examination of Adobe Premiere. (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 159 (3.0 Units)****Windows Operating Systems****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

Comprehensive hands-on application, use and training on a Windows client computer operating system for both beginning and intermediate level students preparing for the current Microsoft Certified Technology Specialist certification exam. Instruction will include: operating system installation and configuration, graphical user interface and command-line commands, hardware installation and configuration, file system management, user and group management, security configuration, network configuration and management, troubleshooting, and disaster recovery. (CSU)

**CIS 160 (4.0 Units)****Computer Hardware and Software****Term Hours: 72 Lec, 0 Lab****Letter Grade Only**

This course provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level ICT professionals. The fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the responsibilities of an ICT professional will be introduced. Course is preparation for the CompTIA A+ certification exams and utilizes CISCO academia. (C-ID ITIS 110) (CSU)

**CIS 161 (3.0 Units)****Introduction to Cybersecurity: Ethical Hacking****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

This course introduces the network security specialist to the various methodologies for attacking a network. Students will be introduced to the concepts, principles, and techniques, supplemented by hands-on exercises, for attacking and disabling a network within the context of properly securing a network. The course will emphasize network attack methodologies with the emphasis on student use of network attack techniques and tools and appropriate defenses and countermeasures. Students will receive course content information through a variety of methods: lecture and demonstration of hacking tools will be used in addition to a virtual environment. Students will experience a hands-on practical approach to penetration testing measures and ethical hacking. (C-ID ITIS 164) (CSU)

**CIS 162 (3.0 Units)****Computer Network Fundamentals****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP (Internet Protocol) addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for further study of computer networks. It uses the OSI (Open Systems Interconnection) and TCP (Transmission Control Protocol) layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. Course is preparation for CISCO certification. (C-ID ITIS 150) (CSU)

**CIS 163 (3.0 Units)****Routing and Switching Essentials****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

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. Course is preparation for CISCO certification. (C-ID ITIS 151) (CSU)

**CIS 166 (3.0 Units)****Digital Forensics****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

This course is an introduction to the methods used to properly conduct a computer forensics investigation beginning with a discussion of ethics, while mapping to the objectives of the International Association of Computer Investigative Specialists (IACIS) certification. Topics covered include an overview of computer forensics as a profession; the computer investigation process; understanding operating systems boot processes and disk structures; data acquisition and analysis; technical writing; and a review of familiar computer forensics tools. (C-ID ITIS 165) (CSU)

**CIS 167 (3.0 Units)****Systems and Network Administration****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

This course will provide a student with the knowledge and skills required to build, maintain, troubleshoot and support server

hardware and software technologies. The student will be able to identify environmental issues; understand and comply with disaster recovery and physical / software security procedures; become familiar with industry terminology and concepts; understand server roles / specializations and interaction within the overall computing environment. (C-ID ITIS 155) (CSU)

**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 Concepts and Methodologies**

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

**Letter Grade Only**

An introduction to the fundamental concepts and models of application development including the basic concepts of program design, data structures, programming, problem solving, programming logic, and fundamental design techniques for event-driven programs. Hands-on experience with a modern application programming language and development platform. (CSU/UC)

**CIS 210 (3.0 Units)**

**Programming in C++**

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

**Letter Grade Only**

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**

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 Development**

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

**Letter Grade Only**

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**

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 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 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 240 (3.0 Units)**

**Discrete Structures**

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

**Letter Grade Only**

Prerequisite: CS 221 and MATH 192 with grades of "C" or better.

This course is an introduction to the discrete structures used in Computer Science with an emphasis on their applications. Topics covered include: Functions, Relations and Sets; Basic Logic; Proof Techniques; Basics of Counting; Graphs and Trees; and Discrete Probability. (C-ID COMP 152) (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 MATH 098 or equivalent, with grades of "C" or better, or appropriate placement as defined by AB705.

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)

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**

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)

**CORRECTIONAL SCIENCE****CSI 055 (9.5 Units)****Corrections Officer Core Course****Term Hours: 126 Lec, 135 Lab****Letter Grade Only**

Prerequisite: Students must submit a completed application including a medical clearance prior to start of class. Entrance requirements include: United States citizen or applying for U.S. citizenship, High School diploma or GED, No felonies or misdemeanors, DOJ Clearance Letter.

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, AA/AS degree only)

**CSI 100 (3.0 Units)****Introduction to Correctional Systems****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

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**

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 206 (3.0 Units)****Correctional Interviewing and Counseling****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

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

**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. (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**

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: 9 Lec, 18 Activity Lab**

**Pass/No Pass**

Prerequisite: A student must be eligible for services and instruction from the Disability Support 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 computer 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 Activity Lab**

**Pass/No Pass**

Prerequisite: A student must be eligible for services and instruction from the Disability Support 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 assistive computer technologies needed to enhance their learning and productivity. (Nontransferable, nondegree applicable)

### **DSPS 054 (1.0 Unit)**

#### **Computer Access I**

**Term Hours: 0 Lec, 36 Activity Lab**

**Pass/No Pass**

Prerequisite: A student must be eligible for services and instruction from the Disability Support 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)

## ECONOMICS

### **ECON 101 (3.0 Units)**

#### **Introduction to Micro Economics**

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

**Letter Grade Only**

Prerequisites: MATH 091 or MATH 098 with a grade of "C" or better or appropriate placement as defined by AB705.

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 or MATH 098 with a grade of "C" or better or appropriate placement as defined by AB705.

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**

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)

## 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 090 (3.0 Units)****Low Voltage Systems****Term Hours: 36 Lec, 54 Lab****Letter Grade Only**

This course provides students the basic knowledge to understand the operation, configuration, and installation of the various types of audio, video, fire, and access control equipment commonly used in residential, commercial or industrial applications. Introduction and review of common test and trouble-shooting equipment. Emphasizes NEC requirements in building and electrical codes. (Nontransferable, AA/AS degree only)

**EWIR 092 (3.0 Units)****Smart Home Instrumentation****Term Hours: 36 Lec, 54 Lab****Letter Grade Only**

This course is the study of advanced concepts in Smart Home Instrumentation. Topics will include: Sensors, Instrumentation Circuits, Microcontrollers, Students will be installing equipment such as: Smart Home Panels, Hubs, structured cable, analog to digital converters, and virtual instrumentation controllers. (Nontransferable, AA/AS degree only)

**EWIR 094 (3.0 Units)****Wireless Telecommunications****Term Hours: 36 Lec, 54 Lab****Letter Grade Only**

This course provides knowledge for understanding the operation, configuration, and installation of wireless transmitters and receivers for data acquisition and control equipment. Student will learn the operating principles and equipment used in wireless network, satellite communication systems. Student will test and troubleshoot wireless communication systems. (Nontransferable, AA/AS degree only)

**EWIR 096 (3.0 Units)****Fiber Optics****Term Hours: 36 Lec, 54 Lab****Letter Grade Only**

This course provides student the introduction types of equipment and methods used in fiber-optic cable installation. Student will also understand the operation of various low voltage circuits, configuration, and installation of fiber optics in data acquisition equipment and Remote Transmission units. (Nontransferable, AA/AS degree only)

**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. (CSU)

**EWIR 115 (4.0 Units)****Electrical Wiring and Protection****Term Hours: 36 Lec, 108 Lab****Letter Grade Only**

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. (CSU)

**EWIR 125 (4.0 Units)****Electrical Feeder Service and Circuits****Term Hours: 36 Lec, 108 Lab****Letter Grade Only**

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. (CSU)

**EWIR 135 (4.0 Units)****Electrical Equipment and Special Conditions****Term Hours: 36 Lec, 108 Lab****Letter Grade Only**

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. (CSU)

**EWIR 162 (3.0 Units)**  
**Programmable Logic Controllers**  
**Term Hours: 36 Lec, 54 Lab**  
**Letter Grade Only**

This course introduces the fundamentals of Programmable Logic Controllers (PLCs) which are used in industrial, commercial, and process applications. Students will learn to program, maintain, troubleshoot, and modify PLCs and controlled systems. Software interfaces will be used to write, enter, and execute PLC applications. Students will qualify to take the National Center for Construction and Educational Research (NCCER) industry certification. (Nontransferable, AA/AS degree only)

**EWIR 165 (3.0 Units)**  
**Industrial Agriculture Automation**  
**Term Hours: 36 Lec, 54 Lab**  
**Letter Grade Only**

This course provides basic knowledge for understanding the operation, configuration, repair, and installation of automated agriculture systems such as those found in Irrigation Systems, Conveyors, Farm Tractors, and Electronic modules widely used in farm applications. (CSU)

## ELECTRONICS

**ELTR 120 (4.0 Units)**  
**Electronic Devices**  
**Term Hours: 54 Lec, 54 Lab**  
**Letter Grade Only**

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, including 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. Successful completion of the course will also satisfy the NREMT requirements for anyone failing the first 3 NREMT cognitive exams. 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**

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 100 (3.0 Units)**

**Introduction to Engineering Design**

**Term Hours: 36 Lec, 54 Lab**

**Letter Grade Only**

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

This course is designed for students to gain hands-on engineering experience in electrical and computer engineering through projects in team building environments. Topics include circuit theory, assembly, systems programming and debugging, transducer mechanisms and interfacing transducers, signals and system theory, digital processing and modular design techniques. (CSU/UC)

**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.

A first course in engineering mechanics: properties of forces, moments, couples and resultants; two-and three-dimensional force systems acting on engineering structures in equilibrium; analysis of trusses and beams; distributed forces, shear and bending moment diagrams, center of gravity, centroids, friction, and area and mass moments of inertia. Optional topics include Fluid statics, cables, Mohr's circle and virtual work. (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.

Fundamentals of kinematics and kinetics of particles and rigid bodies. topics include kinematics of particle motion; Newton's second law, work-energy and momentum methods; kinematics of planar motions of rigid bodies; work-energy and momentum principles of rigid body motion and introduction to mechanical vibrations. (C-ID ENGR 230) (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

**ENGL 008 (4.0 Units)**

**Basic English Composition I**

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

**Letter Grade or Pass/No Pass**

Recommended Preparation: ESL 005 with a grade of "C" or better or appropriate placement.

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 with a grade of "C" or better or appropriate placement.

Preparation for ENGL 110 or ENGL 105. 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 Activity 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. (Nontransferable, nondegree applicable)

**ENGL 055 (1.0 Units)**  
**Intensive Composition and Reading Lab**

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

**Pass/No Pass**

This lab class offers intensive instruction in writing, research, reading, and critical thinking skills to promote success in a concurrent English 110 course. This course allows a qualified student to bypass English 009. This course follows the freshman composition co-requisite model of acceleration. (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 105 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 105 (5.0 Units)**  
**Intensive Composition and Reading**

**Term Hours: 72 Lec, 54 Lab**

**Letter Grade Only**

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. This version of freshman English incorporates a lab component to provide intensive instruction in reading, writing, research, and critical thinking skills to aid in student success. Limitation on Enrollment: Course not open to students with a C or higher in English 110. (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 with a grade of "C" or better or appropriate placement.

The standard course in freshman English. The course seeks to improve the student's ability to understand serious and complex prose and to improve the student's ability to write an exposition that is thoughtful and clear, including the production of a well-documented research paper. Limitation on Enrollment: Course not open to students with a C or higher in English 105. (C-ID ENGL 100) (CSU/UC)

**ENGL 201 (3.0 Units)**  
**Advanced Composition**

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

**Letter Grade Only**

Prerequisite: ENGL 105 or ENGL 110 with a grade of "C" or better. Limitation on Enrollment: Course not open to students with a C or higher in English 204.

This course offers advanced instruction in argumentation and critical thinking in reading and writing through the evaluation and analysis of primarily non-fiction texts. (C-ID ENGL 105) (CSU/UC)

**ENGL 204 (4.0 Units)**  
**Advanced Composition and Critical Thinking Through Literature**

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

**Letter Grade Only**

Prerequisite: ENGL 105 or ENGL 110 with a grade of "C" or better.

This course offers instruction in analytical, critical, and argumentative writing, critical thinking, and proper documentation through the study of literary works from major genres, while developing students' close reading skills and promoting an appreciation for the aesthetic qualities of literature. (C-ID ENGL 110) (CSU/UC)

**ENGL 210 (3.0 Units)**  
**Children's Literature**

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

**Letter Grade Only**

Prerequisite: ENGL 105 or ENGL 110 with a grade of "C" or better.

This course is an introduction to the study of children's literature. It includes a survey of the major authors, works, and genres of literature written for children and young adults with an emphasis on critical literary analysis and appreciation. Participants will read a variety of works of literature and compose written responses that interpret their unique contexts. The course requires extensive reading, writing, and analysis supported by textual evidence and citations. (C-ID ENGL 180) (CSU/UC)

**ENGL 220 (3.0 Units)**  
**Survey of American Literature I**

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

**Letter Grade Only**

Prerequisite: ENGL 105 or ENGL 110 with a grade of "C" or better.

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 105 or ENGL 110 with a grade of "C" or better.

This course is a survey of American Literature from late 19<sup>th</sup> 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 224 (3.0 Units)****Survey of British Literature I****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

Prerequisite: ENGL 105 or ENGL 110 with a grade of "C" or better.  
 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 105 or ENGL 110 with a grade of "C" or better.  
 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 105 or ENGL 110 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 105 or ENGL 110 with a grade of "C" or better.  
 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 257 (3.0 Units)****Survey of Chicana/o Literature****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

Prerequisite: ENGL 105 or ENGL 110 with a grade of "C" or better.  
 This course is a survey of literary texts produced and created by Chicanas and Chicanos from the 19th century to the present. It is an introductory investigation that explores the foundational contexts (historical, sociopolitical, cultural, and economic); literary origins and influences; and characteristic tropes, topics, themes, and traditions related to Chicana/o literature. The surveyed works may include excerpts in several languages and dialects, including but not limited to Spanish, Spanglish, Caló, Nahuatl, and Mayan. (CSU/UC)

**ENGL 270 (3.0 Units)****Introduction to Linguistics****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

Prerequisites: ENGL 105 or ENGL 110 with a grade of "C" or better.  
 This course is an introduction to the scientific study of language. This includes morphology, the study of the way words are put together using small pieces called morphemes; syntax, the study of the structure of sentences; semantics, the study of meaning in language; pragmatics, the branch of linguistics concerned with meaning in context, or the meanings of sentences in terms of the speaker's intentions in using them; and sociolinguistics, the study of the connection between language and society and the way people use

language in different social situations. In this course students develop an understanding of the nature of language through the study of core areas in linguistics. Students 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****ESL 003 (5.0 Units)****Grammar and Composition for Low Intermediate ESL****Term Hours: 90 Lec, 0 Lab****Letter Grade Only**

Recommended Companion Courses: ESL 013 and ESL 023  
 ESL 003 is an integrated writing and grammar course designed for ESL students to develop language skills at the low intermediate level. Students will learn to write organized paragraphs on familiar topics. Course will also emphasize increasing vocabulary and grammar knowledge through reading and other activities. This course may be taken concurrently with other ESL Level 3 courses. Successful completion of this course will prepare students for ESL 004. (CEFR A2) (Nontransferable, nondegree applicable)

**ESL 004 (5.0 Units)****Grammar and Composition for Intermediate ESL****Term Hours: 90 Lec, 0 Lab****Letter Grade Only**

Prerequisite: ESL 003 with a grade of "C" or better or appropriate placement.

Recommended Companion Courses: ESL 014 and ESL 024

ESL 004 is an integrated grammar and writing course designed for students who want to develop English language skills at the intermediate level. Students learn and use grammatical structures found in academic English. Students also extend their knowledge of, and their ability to write, academic paragraphs. This course may be taken concurrently with other Level 4 ESL courses to strengthen student academic performance. Successful completion of this course will prepare students for ESL 005. CEFR B1. (Nontransferable, nondegree applicable)

**ESL 005 (5.0 Units)****Grammar and Composition for Low Advanced ESL****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 and ESL 025

ESL 005 is an integrated grammar and writing course for students to develop academic English skills at the low-advanced level. Students learn to develop well organized, coherent academic paragraphs and multiple paragraph essays containing advanced level sentence structure and mechanics. Students also learn to edit and revise their own written material. (CEFR B2) (Nontransferable, nondegree applicable)

**ESL 013 (5.0 Units)****Speaking and Listening for Low Intermediate ESL****Term Hours: 90 Lec, 0 Lab****Letter Grade Only**

Recommended Companion Courses: ESL 003 and ESL 023

ESL 013 is a listening and speaking course for ESL students who want to develop oral language skills and listening skills at the low-intermediate level. Students learn to exchange information on a

variety of common topics, expressing ideas in an extended series of phrases and sentences. Students also increase listening comprehension skills by listening to a variety of academic material. This course may be taken concurrently with other ESL Level 3 courses. Successful completion of this course will prepare students for ESL 014. (CEFR A2) (Nontransferable, nondegree applicable)

#### **ESL 014 (5.0 Units)**

##### **Speaking and Listening for Intermediate ESL**

**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 and ESL 024

ESL 014 is a listening and speaking course for ESL students who want to develop oral language and listening skills at the intermediate level. Students learn to comprehend extended spoken discourse and lectures, and learn to give explanations and opinions on a variety of common academic topics. This course may be taken concurrently with other Level 4 ESL courses. Successful completion of this course will prepare students for ESL 015. (CEFR B1) (Nontransferable, nondegree applicable)

#### **ESL 015 (5.0 Units)**

##### **Speaking and Listening for Low Advanced ESL**

**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 005 and ESL 025

ESL 015 is a listening and speaking course for ESL students who want to develop oral language and listening skills at the low-advanced level. Students learn to comprehend authentic lectures, talks and reports and effectively express ideas and points of view in spoken English on a variety of common academic topics. This course may be taken concurrently with other Level 5 ESL courses. Successful completion of this course will prepare students for COMM 100. (CEFR B2) (Nontransferable, nondegree applicable)

#### **ESL 023 (3.0 Units)**

##### **ESL Reading 1**

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

##### **Letter Grade Only**

Recommended Companion Courses: ESL 003 and ESL 013.

This course is designed to assist intermediate level ESL students in developing reading skills and reading efficiency in English. Focus will be placed 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.

Recommended Companion Courses: ESL 004 and ESL 014.

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.

Recommended Companion Courses: ESL 005 and ESL 015

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 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**

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**

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**

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**

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**

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**

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 Only**

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**

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**

ESL 062 provides students additional review, practice and instruction in basic vocabulary. Topics to be covered include: shopping, community services, health, and school. Focus will be on written and communicative activities designed to increase fluency for learners at the high beginning level of English. (Nontransferable, nondegree applicable)

**ESL 106 (5.0 Unit)****Academic Discourse Through US Cultures****Term Hours: 90 Lec, 0 Lab****Letter Grade Only**

Prerequisite: ESL 005 with a grade of "C" or better or appropriate placement.

ESL 106 is designed for non-native speakers of English. Students will engage in critical analysis, discussion, and written response to works in the Humanities including literature, visual arts, and music with a focus on U.S. cultures and how values are reflected in the development of art and culture. The course will also develop English

language skills with a focus on vocabulary, critical reading and composition skills required for more advanced academic discourse. (CSU) (UC credit limited. See a counselor)

**ESL 107 (5.0 Unit)****Academic Discourse Through World Cultures****Term Hours: 90 Lec, 0 Lab****Letter Grade Only**

Prerequisite: ESL 106 with a grade of "C" or better or appropriate placement.

ESL 107 is designed for non-native speakers of English. Students will engage in critical analysis, discussion, and response to works in the Humanities including literature, music, and art with a focus on world cultures and how values are reflected in the development of art and culture. The course will also develop English language skills with a focus on vocabulary, critical reading and composition skills required for more advanced academic discourse. (CSU) (UC credit limited. See a counselor)

**ESL 108 (5.0 Unit)****College Composition for Non-Native Speakers****Term Hours: 90 Lec, 0 Lab****Letter Grade Only**

Prerequisite: ESL 106 or ESL 107 with a grade of "C" or better or appropriate placement based on AB 705.

This college composition course emphasizes advanced writing, reading, critical thinking, and research skills. It focuses on the needs of multilingual writers by addressing specific language and cultural content required for academic and professional writing. Writing assignments include expository and argumentative prose based on the analysis of texts that include diverse perspectives. Students write a minimum of 6,000 words, including at least one research paper. (CSU/UC)

**ENVIRONMENTAL SCIENCE****ENVS 110 (3.0 Units)****Environmental Science****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

This course is designed to provide students with an overview and understanding of the relationships between human populations and the natural environment. The class will focus on basic concepts of science and ecosystem theory, human impacts on the 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)

**EXERCISE SCIENCE****ES 100 (2.0 Units)****Lifetime Exercise Science****Term Hours: 18 Lec, 36 Activity 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.)

**ES 102 (1.0 Unit)****Physical Fitness****Term Hours: 0 Lec, 36 Activity 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)

**ES 103 (1.0 Unit)****Physical Fitness - Women****Term Hours: 0 Lec, 36 Activity 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)

**ES 104 (1.0 Unit)****Weight Training****Term Hours: 0 Lec, 36 Activity 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)

**ES 106 (1.0 Unit)****Walking/Jogging Fitness****Term Hours: 0 Lec, 36 Activity 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.)

**ES 107 (1.0 Unit)****Aquatic Exercise****Term Hours: 0 Lec, 36 Activity 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.)

**ES 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)

**ES 112 (1.0 Unit)****Basketball – Co-Ed****Term Hours: 0 Lec, 36 Activity 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.)

**ES 120 (1.0 Unit)****Softball****Term Hours: 0 Lec, 36 Activity 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.)

**ES 121 (1.0 Unit)****Beginning to Intermediate Swimming****Term Hours: 0 Lec, 36 Activity 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.)

**ES 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.)

**ES 123 (2 Units)****Water Safety Instructor Training****Term Hours: 18 Lec, 36 Activity 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.)

**ES 126 (1.0 Unit)****Tennis****Term Hours: 0 Lec, 36 Activity 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.)



**ES 128 (1.0 Unit)****Co-Ed Volleyball 1****Term Hours: 0 Lec, 36 Activity 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.)

**ES 129 (1.0 Unit)****Co-Ed Volleyball 2****Term Hours: 0 Lec, 36 Activity Lab****Letter Grade Only**

Recommended Preparation: PE 128

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.)

**ES 130 (1.0 Unit)****Adapted Physical Exercise****Term Hours: 0 Lec, 36 Activity 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.)

**ES 131 (1.0 Unit)****Adapted Sports****Term Hours: 0 Lec, 36 Activity 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.)

**ES 170 (1.0 Unit)****Beginning Bowling****Term Hours: 0 Lec, 36 Activity 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.)

**ES 171 (1.0 Unit)****Intermediate Bowling****Term Hours: 0 Lec, 36 Activity Lab****Letter Grade Only**

Recommended Preparation: PE 170.

This course emphasizes skill development and acquisition of knowledge about a life-time sport, bowling. The students will continue to develop in bowling skills such as: approach, delivery, scoring, and league experience, in addition to being able to analyze,

evaluate and modify technique to improve performance. Class meets off-campus at the Brunswick XL Bowling Alley located at 950 North Imperial Ave., El Centro. Additional materials fees required. (CSU) (UC credit limited. See a counselor.)

**ES 172 (1.0 Unit)****Advanced Bowling****Term Hours: 0 Lec, 36 Activity Lab****Letter Grade Only**

Recommended Preparation: PE 170 and PE 171.

This course is designed for the avid bowling, having thorough knowledge of bowling principles. Competition in tournament play will be initiated encouraging league experience. Class meets off-campus at the Brunswick XL Bowling Alley located at 950 North Imperial Ave., El Centro. Additional materials fees required. (CSU) (UC credit limited. See a counselor.)

**ES 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.)

**ES 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.)

**ES 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.)

**ES 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.)

**ES 209 (3.0 Units)****Introduction to Kinesiology****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

This is an introductory course covering the professional career options, history, basic philosophy and principles of Kinesiology. Additionally, a nutritional component covers the current and emerging issues in foods and nutrition. This course is of interest to anyone exploring opportunities in the fields of health, wellness, physical activity, nutrition and sport. (CSU/UC)

**ES 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)

**ES 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)

**ES 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)

**ES 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.)

**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 050 (1.0 Unit)****Introduction to Wildland Firefighting****Term Hours: 0 Lec, 54 Lab****Letter Grade Only**

This course provides the entry level student with the fire behavior knowledge and firefighting skills relevant to basic incident command, wildland firefighting positions, basic crew configurations, firefighter safety in wildland environments, tools, equipment and fundamental water handling, and wildland suppression strategy and tactics. Portable pumps and chainsaws are studied at length, as well as basic tools for land navigation. Leadership values and principles, transition challenges for new leaders, situational leadership, team building and ethical decision making is integrated throughout the course. Students are expected to obtain all required uniforms and safety equipment.

State certification costs are the responsibility of the student. Medical clearance is required. (Nontransferable, AA/AS degree only)

**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. (C-ID FIRE 100X) (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. (C-ID FIRE 120X) (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. (C-ID FIRE 140X) (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. (C-ID FIRE 150X) (CSU)

**FIRE 109 (2.0 Units)****Hazardous Materials for First Responders****Term Hours: 36 Lec, 0 Lab****Letter Grade Only**

Hazardous Materials For The First Responder - Decon & Operational Level: 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. Additional materials fee applies. (CSU)

**FIRE 117 (1.0 Unit)****Vehicle Extrication****Term Hours: 9 Lec, 27 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. Additional materials fee applies. (CSU)

**FIRE 121 (1.0 Unit)****ICS-200 Basic Incident Command****Term Hours: 18 Lec, 0 Lab****Letter Grade Only**

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**

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. Additional materials fee applies. (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. Additional materials fee applies. (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, 40.0 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. Additional materials fee applies. (Nontransferable, AA/AS Degree only)

**FIRE 148 (1.0 Units)**  
**Firefighter 1 Capstone Training**  
**Term Hours: 0 Lec, 54 Lab**  
**Letter Grade Only**

Prerequisite: FIRE 144 with a grade of "C" or better or appropriate letter from a fire department Chief or Training Officer.

This course is designed to provide students the opportunity to complete the on-line Written and the Skills Certification tests required by State Fire Training (SFT) as part of the process necessary to obtain a Firefighter I (FFI) Certificate. The class does not include any Firefighter I instruction and it is the responsibility of the student to have completed all of the instruction (including the hour requirements) as identified in the SFT FFI course plan prior to attending the course. Students are expected to be familiar with the FFI skills as found on the 63 SFT FFI Skills Sheets and be given limited time to practice these skills in the times identified for this course. At the completion of the practice portions, testing of the ten mandatory and seven random skills (chosen by SFT) will be conducted. Additional materials fee applies. (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. Additional materials fee applies. (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.

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. Additional materials fee applies. (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. Additional materials fee applies. (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. Additional materials fee applies. (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. Additional materials fee applies. (CSU)

**FIRE 246 (2.5 Units)**  
**Company Officer 2A: Human Resource Management**  
**Term Hours: 45 Lec, 0 Lab**  
**Letter Grade Only**

This course provides information on the use of human resources to accomplish assignments, evaluating member performance, supervising personnel, and integrating health and safety plans, policies, and procedures into daily activities as well as the emergency scene. Additional materials fee applies. (CSU)

**FIRE 247 (1.5 Units)**  
**Company Officer 2B: General Administrative Functions**  
**Term Hours: 27 Lec, 0 Lab**  
**Letter Grade Only**

This course provides information on general administrative functions and the implementation of department policies and procedures and addresses conveying the fire department's role, image, and mission to the public. Additional materials fee applies. (CSU)

**FIRE 248 (2.5 Units)**  
**Company Officer 2C: Fire Inspections and Investigations**  
**Term Hours: 45 Lec, 0 Lab**  
**Letter Grade Only**

This course provides information on conducting inspections, identifying hazards and addressing violations, performing a fire investigation to determine preliminary cause and securing the incident scene and preserving evidence. Additional materials fees applies. (CSU)

**FIRE 249 (2.5 Units)**  
**Company Officer 2D: All-Risk Command Operations**  
**Term Hours: 45 Lec, 0 Lab**  
**Letter Grade Only**

This course provides information on conducting incident size-up, developing and implementing an initial plan of action involving single and multi-unit operations for various types of emergency incidents to mitigate the situation following agency safety procedures, conducting pre-incident planning, and develop and conduct a post-incident analysis. Additional materials fee applies. (CSU)

**FIRE 250 (2.5 Units)****Company Officer 2E: Wildland Incident Operations****Term Hours: 45 Lec, 0 Lab****Letter Grade Only**

This course provides information on evaluating and reporting incident conditions, analyzing incident needs, developing and implementing a plan of action to deploy incident resources completing all operations to suppress a wild-land fire, establishing an incident command post, creating an incident action plan, and completing incident records and reports. Additional materials fee applies. (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)

**GEOG 155 (3.0 Units)**

**Introduction to Geographic Information Systems and Techniques with Lab**

**Term Hours: 36 Lec, 54 Lab**

**Letter Grade Only**

Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Identification and acquisition of GIS data. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems, georeferencing and Global Positioning Systems (GPS). Spatial analysis and modeling with GIS. (CSU/UC)

## GEOLOGY

**GEOG 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 GEOG 100; C-ID GEOG 101) (CSU/UC)

**GEOG 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 GEOG 120) (CSU) (UC credit limited. See a Counselor.)

**GEOG 130 (3.0 Units)**

**Climate and Weather**

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

**Letter Grade Only**

Introduction to the Earth's atmosphere: topics include atmospheric structure and composition, solar radiation and energy balances, temperature, seasonal changes, atmospheric moisture, clouds and fog, precipitation, air pressure, winds, air masses and fronts, cyclones, weather forecasting, climate and climate change. (C-ID GEOG 130) (CSU/UC)

**GEOG 140 (4.0 Units)**

**The Earth Through Time: Historical Geology**

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

**Letter Grade or Pass/No Pass**

Study of the changes of Earth and life through geologic time. Evolution of the continents, ocean basins and major life forms throughout Earth's history with an emphasis on the stratigraphic and fossil records. (CSU/UC)

## GLOBAL STUDIES

**GLST 101 (3.0 Units)**

**Introduction to Global Studies**

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

**Letter Grade Only**

This course presents an introduction to the concept and process of globalization via an interdisciplinary approach. It covers the history of globalization, along with its contemporary geographic, economic, political, and socio-cultural aspects. (CSU/UC)

**GLST 102 (3.0 Units)**

**Global Issues**

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

**Letter Grade Only**

This course presents a selection of the major issues facing the global community, such as demographic trends, economic development and inequality, basic human needs, human rights, conflict, security, and environmental problems. This course also covers issues pertaining to global governance and responsibilities. (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. (C-ID PHS 100) (CSU/UC)

**HE 103 (3.0 Units)**

**Introduction to Public Health**

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

**Letter Grade Only**

This course provides an introduction to the discipline of Public Health. Students will gain an understanding of the basic concepts and terminologies of public health, and the history and accomplishments of public health officials and agencies. An overview of the functions of various public health professions and institutions, and an in-depth

examination of the core public health disciplines is covered. Topics of the discipline include the epidemiology of infectious and chronic disease; prevention and control of diseases in the community including the analysis of the social determinants of health and strategies for eliminating disease, illness and health disparities among various populations; community organizing and health promotion programming; environmental health and safety; global health; and healthcare policy and management. (C-ID PHS 101) (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)

**HE 106 (3.0 Units)**

**Introduction to Nutrition Science**

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

**Letter Grade Only**

Scientific concepts of nutrition related to the function of nutrients in basic life processes and current health issues with emphasis on individual needs. (C-ID NUTR 110) (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 16<sup>th</sup> 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 17<sup>th</sup> 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**

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. (CSU/UC)

**HIST 131 (3.0 Units)**

**Modern Latin America**

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

**Letter Grade Only**

This course compares the nations and cultures of Latin America from the Early National Period to the present by studying the economic, social, political, and cultural evolution of the different regions, including Mexico, Central America, South America and the Caribbean. The region's changing interactions with and place in the international community and various other world factors are also explored. Emphasis is placed on the influence of various ethnic groups in the development of the different cultures of the region. (CSU/UC)

**HIST 132 (3.0 Units)****History of Mexico****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

This course is a one semester survey of Mexican history from prehistory to the present. The course will explore the Native American cultures of Mesoamerica, the period of colonization, the struggle for independence and nationhood in the 19<sup>th</sup> century, the Mexican Revolution, the era of population, and political and economic crisis during the 20<sup>th</sup> century, and national rebirth in the 21<sup>st</sup> century. (CSU/UC)

**HIST 160 (3.0 Units)****Middle East From 600****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

This course explores the events leading to the creation and emergence of the modern Middle East. It includes the origin and spread of Islam, Islamic dynasties and civilization, Crusades, Ottoman Empire, Persia/Iran, interactions with and colonization by Western powers, rise of 20<sup>th</sup> century independent nation-states, creation of Israel and the Arab-Israeli conflict, 20<sup>th</sup> and 21<sup>st</sup> century wars and conflicts, rise of non-state groups, famous political/religious leaders, intellectual/scientific accomplishments, and artistic/literary works. (CSU/UC)

**HIST 220 (3.0 Units)****Women in American History****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

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**

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**

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 20<sup>th</sup> century. (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 105 or ENGL 110 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)

**MATHEMATICS****MATH 010 (1.0 Unit)****Math 110 Support Course****Term Hours: 0 Lec, 36 Activity Lab****Pass/No Pass Only**

Corequisite: MATH 110

This course is intended for students to take concurrently with Math 110. Included will be computations with rational numbers, mental computation and estimation, ratio and percent and the use of manipulatives to solve computations. (Nontransferable, nondegree applicable)

**MATH 012 (1.0 Unit)****Math 112 Support Course****Term Hours: 0 Lec, 36 Activity Lab****Pass/No Pass Only**

Corequisite: MATH 112

This course is intended for students to take concurrently with Math 112. Included will be computations of area and volume, measurement systems, unit conversions, transformational geometry, and patterning problems. (Nontransferable, nondegree applicable)

**MATH 019 (1.0 Unit)****Math 119 Support Course****Term Hours: 0 Lec, 36 Activity Lab****Pass/No Pass Only**

Corequisite: MATH 119

This course is intended for students to take concurrently with Math 119. Included will be the review of union and intersection of sets, interval notation, solving linear equations for a specified variable, review linear equations, application problems utilizing inequalities, review of properties of exponents, introduction to functions, overview of non-linear functions, review of sigma notation, factoring and binomial theorem. (Nontransferable, nondegree applicable)



**MATH 022 (1.0 Unit)**  
**Math 122 Support Course**  
**Term Hours: 0 Lec, 36 Activity Lab**  
**Pass/No Pass Only**

Corequisite: MATH 122

This course is intended for students to take concurrently with Math 122. Included will be an introduction to the real number system, introduction to functions and relations, solve linear equations and inequalities in one variable, graph linear equations in two variables, properties of exponents. (Nontransferable, nondegree applicable)

**MATH 042 (1.0 Unit)**  
**Math 140 Support Course**  
**Term Hours: 0 Lec, 36 Activity Lab**  
**Pass/No Pass Only**

Corequisite: MATH 140

This course is intended for students to take concurrently with Math 140. Included will be the review of rectangular coordinate system; introduction to functions and graphs; factoring polynomials; solving linear and quadratic equations; operations on polynomial, rational and radical expressions. (Nontransferable, nondegree applicable)

**MATH 050 (1.0 Unit)**  
**Math 150 Support Course**  
**Term Hours: 0 Lec, 36 Activity Lab**  
**Pass/No Pass Only**

Corequisite: MATH 150

This course is intended for students to take concurrently with Math 150. Included will be the review of functions, properties of exponents, properties of logarithms, operations on polynomials, rational and radical functions; review and solve linear, quadratic, rational, radical, exponential and logarithmic equations, solve non-linear inequalities, review complex numbers. (Nontransferable, nondegree applicable)

**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. (Nontransferable, nondegree applicable)

**MATH 072 (1.0 Unit)**  
**Math 170 Support Course**  
**Term Hours: 0 Lec, 36 Activity Lab**  
**Pass/No Pass Only**

Corequisite: MATH 170

This course is intended for students to take concurrently with Math 170. Included will be the solving linear, quadratic, rational, radical, logarithmic and exponential equations; operations on matrices, introduction to functions, operations on polynomials. (Nontransferable, nondegree applicable)

**MATH 081 (4.0 Units)**  
**Beginning Algebra**  
**Term Hours: 72 Lec, 0 Lab**  
**Letter Grade Only**

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 094 (1.0 Unit)**  
**Math 190 Support Course**  
**Term Hours: 0 Lec, 36 Activity Lab**  
**Pass/No Pass Only**

Corequisite: MATH 190

This course is intended for students to take concurrently with Math 190. Included will be the review of exponents, operations on polynomial, rational and radical expressions, solving polynomial, rational and radical equations, fundamentals of trigonometric functions. (Nontransferable, nondegree applicable)

**MATH 096 (1.0 Unit)**  
**Math 192 Support Course**  
**Term Hours: 0 Lec, 36 Activity Lab**  
**Pass/No Pass Only**

Corequisite: MATH 192

This course is intended for students to take concurrently with Math 192. Included will be a review of how to solve polynomial equations; review fundamental trigonometric identities, graph trigonometric, polynomial, rational, logarithmic and exponential functions; simplify algebraic expressions, properties of logarithmic and exponential functions. (Nontransferable, nondegree applicable)

**MATH 098 (6.0 Units)**  
**Foundations of Algebra**  
**Term Hours: 108 Lec, 0 Lab**  
**Letter Grade Only**

This course provides an introduction to the concepts of Algebra. Topics covered include linear and quadratic equations and their graphs; relations, functions and their graphs; polynomial and rational expressions and equations, logarithmic and exponential expressions and equations, radical expressions and equations. Not open to students with credit in MATH 091. (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: Appropriate placement as defined by AB705 or MATH 098 or MATH 091 with a grade of "C" or better.

This course focuses on the development of quantitative reasoning skills through in-depth, integrated explorations of topics in mathematics, including real number systems and subsystems. Emphasis is on comprehension and analysis of mathematical concepts and applications of logical reasoning. (C-ID MATH 120) (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: Appropriate placement as defined by AB705 or, MATH 098 or MATH 091 with a grade of "C" or better.

This course is a continuation of Math 110 and focuses on the conceptual understanding needed to teach elementary school mathematics. Topics include the geometry, including the development of geometric formulas, transformational geometry, similarity, relationships between shapes, English and metric measurements, Pythagorean Theorem 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**

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: Appropriate placement as defined by AB705 or, MATH 091 with a grade of "C" or better.

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; Probability Theory, such as counting principles, conditional probability and the Poisson distribution. Applications using data from disciplines including business, social sciences, psychology, life science, health science, and education. (C-ID MATH 110) (CSU) (UC credit limited. See a counselor.)

**MATH 122 (3.0 Units)**  
**Finite Mathematics**

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

**Letter Grade Only**

Prerequisite: Appropriate placement as defined by AB705 or, MATH 098, or 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. (C-ID MATH 130) (CSU/UC)

**MATH 140 (3.0 Units)**  
**Trigonometry**

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

**Letter Grade Only**

Prerequisite: Appropriate placement as defined by AB705 or, MATH 098 or MATH 091 with a grade of "C" or better.

The study of trigonometric functions, their inverses and their graphs, trigonometric identities and proofs related to trigonometric expressions, trigonometric equations, solving right triangles, solving triangles using Law of Cosines and the Law of Sines, and polar coordinates. (CSU)

**MATH 150 (4.0 Units)**  
**College Algebra**

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

**Letter Grade Only**

Prerequisite: Appropriate placement as defined by AB705 or, MATH 098 or MATH 091 with a grade of "C" or better.

College level course in algebra: polynomial, rational, radical, absolute value, exponential and logarithmic functions; systems of equations, theory of polynomial equations, matrix algebra, 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: Appropriate placement as defined by AB705 or, MATH 140 or equivalent with a grade of "C" or better.

Preparation for calculus: polynomial, absolute value, radical, rational, exponential, logarithmic, and trigonometric functions and their graphs; analytic geometry, polar coordinates. (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: Appropriate placement as defined by AB705 or, MATH 190 or equivalent with a grade of "C" or better.

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 071 (2.0 Units)**

**Introduction to Medical Assisting and Practice**

**Term Hours: 36 Lec, 0 Lab**

**Letter Grade Only**

Prerequisite: AHP 100 or concurrent enrollment in AHP 100.

This course is an introduction to health care as it relates to the Medical Assistant Profession. The course explores the history and evolution of health care, health care setting, roles and responsibilities of healthcare professionals including the medical assistant scope of practice. Characteristics of the Medical Assistant and educational preparation, including program requirements are explored. Ethical, bioethical and legal practices related to the Medical Assistant profession in the medical office, clinical, ancillary setting are explored. Ethical and bioethical guidelines, conflicts and resolutions associated with medical issues and clinical practice with various Allied Health Professions are discussed. Professionalism, certification, professional organizations and employment opportunities are discussed. (Nontransferable, AA/AS degree only)

**MA 073 (3.0 Units)**

**Medical Assistant Administration**

**Term Hours: 36 Lec, 54 Lab**

**Letter Grade Only**

Prerequisite: MA 071 with a grade of "C" or better.

This course prepares Allied Health students to work in a medical office administrative management (front office) of a medical office, clinic or other medical setting. Interpersonal communication focusing on therapeutic communication and workplace communication will be explored. The impact of human development, culture and health will be discussed. The course covers administrative and clerical functions of a medical office assistant including patient reception, scheduling appointments, telephone procedures, medical record management, concepts of basic bookkeeping, confidentiality, office management, professional activities and personal conduct. (Nontransferable, AA/AS degree only)

**MA 075 (3.0 Units)**

**Principles of Medical Billing, Insurance and Coding**

**Term Hours: 45 Lec, 27 Lab**

**Letter Grade Only**

Prerequisite: MA 073 with a grade of "C" or better or concurrent enrollment in MA 073.

The course provides an overview, instruction and practice on financial procedures, third party billing, insurance, collections and coding practices used in medical offices, outpatient, ambulatory and hospital settings. Introduces Current Procedural Terminology (CPT), Healthcare Common Procedure Coding System (HCPCS), and International Classification of Disease (ICD) procedural principles. The relationship between coding, reimbursement, collections, insurance,

administrative procedures and billing are explored. (Nontransferable, AA/AS degree only)

**MA 077 (1.0 Unit)**

**Medical Assistant Administrative Clinical**

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

**Letter Grade Only**

Prerequisite: MA 075 with a grade of "C" or better, or concurrent enrollment in MA 075.

The course is designed to provide supervised directed practice in an ambulatory administrative practice. The student will gain hands-on experience performing administrative medical assistant duties and skills essential for entry-level employment. The student must demonstrate mastery of MAERB psychomotor and affective competencies as defined relating to administrative medical assisting practices. Enrolment in the course requires that the student have a Basic Cardiac Life Support Certificate (BLS) and proof of Medical Liability Insurance. Student must be available during regular operating hours of ambulatory care setting. (Nontransferable, AA/AS degree only)

**MA 081 (3.0 Units)**

**Medication Mathematics and Pharmacology for Health Occupations**

**Term Hours: 36 Lec, 54 Lab**

**Letter Grade Only**

Prerequisite: BIOL 090 and MA 077 and with a grade of "C" or better.

This course focuses on those components of safe medication calculation and administration and provides an introduction to the principles of pharmacology including medication interactions and potential adverse medication reactions. The course presents the principles and the guidelines for reading and interpreting a medical prescription. The course content also stresses medication calculation, measuring and administration of drugs; both orally and parenterally most commonly administered in the medical. Maintenance of medication, administration of immunizations, documentation of dispensed or prescribed is stressed. (Nontransferable, AA/AS degree only)

**MA 083 (5.0 Units)**

**Foundations of Medical Practice for Medical Assistants**

**Term Hours: 72 Lec, 54 Lab**

**Letter Grade Only**

Prerequisite: MA 081 with a grade of "C" or better, or concurrent enrollment in MA 081.

This course examines common disease processes effecting different anatomy and physiology, infection control and protective practice associated with medical assisting in an ambulatory care setting. Exam room procedures and specimen collection including obtainment of capillary and venous blood samples are explored. Assisting the physician with minor invasive procedures and minor surgery are discussed. (Nontransferable, AA/AS degree only)

**MA 085 (3.0 Units)**

**Exam Room and Special Procedures**

**Term Hours: 45 Lec, 27 Lab**

**Letter Grade Only**

Prerequisite: MA 083 with a grade of "C" or better, or concurrent enrollment in MA 083.

This course is designed to prepare students in the principles of minor surgery and specialty procedures such as exams of the eyes and ears, positioning and draping, assisting physician. Pre-operative and post-operative process is also presented and practiced. Instrument identification and usage, aseptic technique, diagnostic tests and

procedures, and medical emergencies are explored. (Nontransferable, AA/AS degree only)

**MA 087 (4.0 Units)**

**Medical Assistant Practicum and Review**

**Term Hours: 18 Lec, 162 Lab**

**Letter Grade Only**

Prerequisite: MA 075, MA 077 and MA 085 with grades of "C" or better.

This course is designed to provide the medical assistant with a minimum of 160 hours of hands-on, unpaid clinical experiences at an ambulatory care facility, which puts all previous didactic information and skills together in the clinical setting. Students will further their development of communication skills, interpersonal relationships and professionalism required in a medical setting. Preceptors supervise the student with oversight by clinical faculty during the practicum experience. The course will also provide a weekly review of the practicum experience. Students will review test-taking techniques required to complete a certification exam and review steps required for successful transition to practice. (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 106 (3.0 Units)**

**Music History Survey 1750 to Present - Western European and Selected Global Cultures**

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

**Letter Grade Only**

This course will entail a survey of music history and literature from 1750 to the present day, including cultural, intellectual and social influences of Western Europe and selected Global countries. Included in the analysis will be the influences on stylistic trends of music of Asia, Latin America, Northern and Eastern Europe, Oceania, Africa, the Middle East and the United States of America (Native American Music) on the development of Western European music during these epochs. Emphasis will be placed on recognizing how the various elements of music are utilized and transformed throughout various global cultures, the various musical instruments used, the timbres of the instruments and voices, the styles of cultural dances, the many varied scales which are used to build different types/styles of cultural music, and how these parameters are manifested in Western European music. (CSU/UC)

**MUS 110 (1.0 Unit)****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)****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)****Music Theory 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)****Music Theory 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)****Piano I****Term Hours: 0 Lec, 54 Lab****Letter Grade Only**

This course consists of individualized study of the appropriate techniques and repertoire for the specific instrument being studied. It includes basic technique, major and minor five finger patterns, major scales, sight reading and basic chord progressions, as they are encountered in piano music. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is intended for music majors as well as the general population. (C-ID MUS 160; C-ID MUS 170) (CSU/UC)

**MUS 142 (1.0 Unit)****Piano II****Term Hours: 0 Lec, 54 Lab****Letter Grade Only**

Prerequisite: MUS 140 with a grade of "C" or better.

This course consists of individualized study of the appropriate techniques and repertoire for the piano at an intermediate level. The focus of the course is on fundamentals: reading music, posture, hand position, fingering, rhythm, chord structure and progressions, and performance. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is intended for music majors as well as the general population. (C-ID MUS 160; C-ID MUS 171) (CSU/UC)

**MUS 150 (1.0 Unit)****Voice I****Term Hours: 0 Lec, 54 Lab****Letter Grade Only**

This course consists of individualized study of the appropriate techniques and repertoire for voice. The focus of the course is on fundamentals: reading music, posture, rhythm, breath control, and

performance. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is intended for music majors as well as the general population. (C-ID MUS 160) (CSU/UC)

**MUS 152 (1.0 Unit)****Voice II****Term Hours: 0 Lec, 54 Lab****Letter Grade Only**

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

This course consists of individualized study of the appropriate techniques and repertoire for voice at an intermediate level. The focus of the course is on fundamentals: reading music, posture, breath control, repertoire and performance. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is intended for music majors as well as the general population. (C-ID MUS 160) (CSU/UC)

**MUS 156 (1.0 Unit)****Beginning College Chorus****Term Hours: 0 Lec, 54 Lab****Letter Grade Only**

Prerequisite: Audition required for proper vocal placement.

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. (C-ID MUS 180) (CSU/UC)

**MUS 157 (1.0 Unit)****Intermediate College Chorus****Term Hours: 0 Lec, 54 Lab****Letter Grade Only**

Prerequisite: Audition required for proper vocal placement.

Continuation of MUS 156. This course will further students development in choir performance. Maximum credit two units. (C-ID MUS 180) (CSU/UC)

**MUS 160 (1.0 Unit)****Guitar I****Term Hours: 0 Lec, 54 Lab****Letter Grade Only**

This course consists of individualized study of the appropriate techniques and repertoire for the guitar. The focus of the course is on fundamentals: reading music, posture, hand position, fingering, rhythm, chord structure and progressions, and performance. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is intended for music majors as well as the general population. (C-ID MUS 160) (CSU/UC)

**MUS 162 (1.0 Unit)****Guitar II****Term Hours: 0 Lec, 54 Lab****Letter Grade Only**

Prerequisite: MUS 160 with a grade of "C" or better.

This course consists of individualized study of the appropriate techniques and repertoire for the guitar at an intermediate level. The focus of the course is on fundamentals: reading music, posture, hand position, fingering, rhythm, chord structure and progressions, and performance. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a

juried performance. This course is intended for music majors as well as the general population. (C-ID MUS 160) (CSU/UC)

**MUS 171 (1.0 Unit)**  
**Chamber Orchestra**  
**Term Hours: 0 Lec, 54 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. (C-ID MUS 180) (CSU/UC)

**MUS 175 (1.0 Unit)**  
**Instrumental Ensemble**  
**Term Hours: 0 Lec, 54 Lab**  
**Letter Grade Only**

Prerequisite: Audition Required.

A performance organization specializing in jazz/rock literature for brass, woodwind, stringed and percussion instruments. This course is for the study, rehearsal, and public performance of literature appropriate to the ensemble, with an emphasis on the development of skills needed to perform within a large ensemble with a director. Different literature will be studied each semester. Designed for musicians who wish to explore, rehearse, and perform jazz/rock literature of all styles and periods. Maximum credit four units. (C-ID MUS 180) (CSU/UC)

**MUS 177 (1.0 Unit)**  
**Stage Band**  
**Term Hours: 0 Lec, 54 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: 0 Lec, 54 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)**  
**Electronic Music Production**  
**Term Hours: 18 Lec, 36 Lab**  
**Letter Grade Only**

Electronic Music Production is a course that teaches students the necessary tools and techniques to create contemporary electronic music in a variety of styles. Topics covered include history of electronic music and recording, digital audio and MIDI theory, DAW signal flow and system requirements, MIDI sequencing, stereo mixing techniques, and use of software-based virtual instruments and effects processors such as equalizers, compressors and reverbs. Students receive hands-on practice in digital music production and composition in a variety of styles. Work will be done on a DAW (Digital

Audio Workstation) primarily Logic Pro and the IVC Digital Recording Studio. (CSU)

**MUS 184 (2.0 Units)**  
**Advanced Electronic Music Production**  
**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 185 (1.0 Unit)**  
**Mariachi Ensemble**  
**Term Hours: 0 Lec, 54 Lab**  
**Letter Grade Only**

Prerequisite: Audition Required.

This course provides opportunities to learn and perform beginning through advanced Mariachi music in an ensemble setting, as well as to learn to play Mariachi instruments from beginning levels through proficient levels. The Mariachi instruments to be studied/played include violin, viola, cello, guitarron, guitar, vihuela, trumpet, small harp, accordion, voice, etc. Students will study musical note reading, proper performance stylistic practices of Mariachi music, memorization techniques, as well as ideal ensemble performance practices. Maximum credit four units. (CSU/UC)

**MUS 210 (1.0 Unit)**  
**Musicianship III**  
**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)**  
**Musicianship IV**  
**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)**  
**Music Theory III**  
**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)**  
**Music Theory IV**  
**Term Hours: 54 Lec, 0 Lab**  
**Letter Grade Only**

This course incorporates the concepts from MUS 220. Through guided composition and analysis, the course will include late Romantic, neo-Romantic, and Modernist harmonic and rhythmic structures and techniques. (C-ID MUS 150) (CSU/UC)

**MUS 240 (1.0 Unit)****Piano III****Term Hours: 0 Lec, 54 Lab****Letter Grade Only**

Prerequisite: MUS 142 with a grade of "C" or better.

This course consists of individualized study of the appropriate techniques and repertoire for the piano at an advanced intermediate level. The focus is on advanced intermediate piano techniques, more compositional processes, ensemble playing and accompanying. (C-ID MUS 160; C-ID MUS 172) (CSU/UC)

**MUS 242 (1.0 Unit)****Piano IV****Term Hours: 0 Lec, 54 Lab****Letter Grade Only**

Prerequisite: MUS 240 with a grade of "C" or better.

This course consists of individualized study of the appropriate techniques and repertoire for the piano at an advanced level. The focus is on advanced piano techniques, more compositional processes, ensemble playing and accompanying. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is intended for music majors as well as the general population. (C-ID MUS 160) (CSU/UC)

**MUS 250 (1.0 Unit)****Voice III****Term Hours: 0 Lec, 54 Lab****Letter Grade Only**

Prerequisite: MUS 152 with a grade of "C" or better.

This course consists of individualized study of the appropriate techniques and repertoire for voice at an advanced intermediate level. The focus of the course is on development of technique and repertoire. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is intended for music majors as well as the general population. (C-ID MUS 160) (CSU/UC)

**MUS 252 (1.0 Unit)****Voice IV****Term Hours: 0 Lec, 54 Lab****Letter Grade Only**

Prerequisite: MUS 250 with a grade of "C" or better.

This course consists of individualized study of the appropriate techniques and repertoire for voice at an advanced level. The focus of the course is on continuing development of technique and repertoire. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is intended for music majors as well as the general population. (C-ID MUS 160) (CSU/UC)

**MUS 260 (1.0 Unit)****Guitar III****Term Hours: 0 Lec, 54 Lab****Letter Grade Only**

Prerequisite: MUS 162 with a grade of "C" or better.

This course consists of individualized study of the appropriate techniques and repertoire for guitar at an advanced intermediate level. The focus of the course is on building technique and repertoire. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is intended for music majors as well as the general population. (C-ID MUS 160) (CSU/UC)

**MUS 262 (1.0 Unit)****Guitar IV****Term Hours: 0 Lec, 54 Lab****Letter Grade Only**

Prerequisite: MUS 260 with a grade of "C" or better.

This course consists of individualized study of the appropriate techniques and repertoire for guitar at an advanced level. The focus of the course continues to be on building technique and performance confidence and adding repertoire. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. This course is intended for music majors as well as the general population. (C-ID MUS 160) (CSU/UC)

**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**

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 or Pass/No Pass**

Prerequisite: Completion of Associate Degree RN program prerequisites and an active California LVN license. BIOL 220, BIOL 200 and BIOL 202 or BIOL 104 and BIOL 206.

This course facilitates the transition of advanced placement of Licensed Vocational Nurses into the associate degree registered nursing (RN) program. It provides an introduction to the various roles and expectations of a RN. The course reviews the nursing process and provides opportunities to combine critical thinking with the nursing process via human simulations, role-play, and/or case studies. Concepts related to program philosophy, conceptual framework, cultural sensitivity, growth and development, nursing skills, and role expectations are emphasized. Student's knowledge, skills, assessments, and practice opportunities in the classroom, via standardized testing, and/or simulations will be assessed to determine placement options for student success. Additional materials fee applies. (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: 45 Lec, 135 Lab**

**Letter Grade Only**

Prerequisite: NURS 123 and NURS 128 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 facilitates the transition of the student to the role of a professional nurse. This course focuses on advanced concepts of nursing care as they relate to patients across the lifespan with complex, multi-system 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, delegating 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)

**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 105 or ENGL 110, PSY 101, PSY 204 or concurrent enrollment in PSY 204.

Corequisite: VN 114

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 individual; pain assessment, interventions and evaluation; basic nutrition; and stress and adaptation 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. 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. (CSU)

## **PEACE OFFICER STANDARDS AND TRAINING**

#### **POST 160 (8.5 Units)**

##### **Regular Basic Course Modular Format Level III**

**Term Hours: 108 Lec, 135 Lab**

##### **Letter Grade Only**

Prerequisites: No felony or domestic violence convictions. Valid California driver's license. Medical clearance and 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 class 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.

POST 160 is 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 Leadership, professionalism and ethics, criminal Justice system, policing in the community, criminal law and laws of arrest, search and seizure, vehicle operations, report writing, First Aid/CPR, traffic enforcement, cultural diversity / discrimination, arrest and control tactics and weaponry, use of force / de-escalation, custody, and use and care of firearms / chemical agents. Supply fee may be charged. Designed to prepare students to be hired by a law enforcement agency as a

Reserve Officer Level III and is a prerequisite for POST 162. (Formerly AJ 160) (CSU)

**POST 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 POST 160 (formerly AJ 160) as required by P.O.S.T. before January 1, 2007 or AJ 142 or POST 160 (formerly 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.

POST 162 is 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.). The course 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. This course also prepares students to be hired by a law enforcement agency as a Level II Reserve Officer and is a prerequisite for POST 164. (Formerly AJ 162) (CSU)

**POST 164 (16.5 Units)**

**Regular Basic Course Modular Format Level I**

**Term Hours: 187 Lec, 339 Lab**

**Letter Grade Only**

Prerequisites: POST 162 (formerly 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. Medical clearance and ability to successfully participate in physical requirements of the course. Passing scores on the Law Enforcement PELLET B test and the P.O.S.T. Work Sample Test Battery (Physical Fitness Test).

POST 164 is 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. (Formerly AJ 164) (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

This course introduces philosophical ideas and methods concerning knowledge, reality and values. Expected topics will include the sources and limits of knowledge, and the nature of reality. Other topics will be examined from a philosophical perspective and include the nature of the self, truth, ethics, religion, science, language, beauty and art, political theory, and mind. An emphasis will be placed on readings from primary source texts. (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

This course examines the concept of morality and values, representative ethical theories, and may include their applications to moral problems. (Same as RELS 104) (CSU/UC)

### PHIL 106 (3.0 Units)

#### Logic

Term Hours: 54 Lec, 0 Lab

#### Letter Grade Only

Prerequisite: ENGL 105 or ENGL 110 with a grade of "C" or better or concurrent enrollment in ENGL 105 or ENGL 110.

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 SCIENCE

### PHSC 110 (3.0 Units)

#### Physical Science

Term Hours: 54 Lec, 0 Lab

#### Letter Grade Only

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: 54 Lec, 54 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 C-ID PHYS 200S with PHYS 202 and PHYS 204) (CSU/UC)

### PHYS 202 (4.0 Units)

#### General Physics II

Term Hours: 54 Lec, 54 Lab

#### Letter Grade Only

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

This course is designed to give an understanding of the fundamental principles of physics in the areas of electricity, magnetism, atomic, and nuclear physics. (C-ID PHYS 210 or C-ID PHYS 200S with PHYS 200 and PHYS 204) (CSU/UC)

### PHYS 204 (4.0 Units)

#### General Physics III

Term Hours: 54 Lec, 54 Lab

#### Letter Grade Only

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

This course is designed to give an understanding of the fundamental principles of physics in the areas of waves, heat, light, relativity, quantum mechanics and atomic physics. (C-ID PHYS 215 or C-ID PHYS 200S with PHYS 200 and PHYS 202) (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

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)

**POLS 108 (3.0 Units)****Introduction to Political Thought and Theory****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

Examination of various theoretical approaches to politics and of basic political problems and proposed solutions. Analysis of selected political theories and of the relevance of theory to contemporary problems. (C-ID POLS 120) (CSU/UC)

**POLS 110 (4.0 Units)****American Institutions and History****Term Hours: 72 Lec, 0 Lab****Letter Grade Only**

Students study basic concepts in the political and historical traditions of America and California by analyzing national, state, and local political institutions from colonial times to the present. The course examines the evolution of concepts and ideas that are fundamental to our political culture. It emphasizes the concepts citizens should understand in order to vote intelligently and otherwise effectively participate in the political process. This course is designed specifically to satisfy the CSU History, Constitution, and American Ideals requirement. Not open to students with credit in POLS 102. (C-ID POLS 110) (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 progression of development in the physical, cognitive, language, social, and emotional domains, and identifies developmental milestones for children, from conception through adolescence. Emphasis on interactions between biological processes and environmental factors. Based on 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. (C-ID ADS 120X) (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. (C-ID ADS 130X) (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**

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, pre-school 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 persons in crisis including

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. (CSU)

**PSY 211 (3.0 Units)****Cognitive Psychology****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

This course will examine principles of cognition focusing on prevailing theories, previous research and current trends in the cognitive sciences. Research findings from human and animal models will be used as a foundation to explore a wide range of topic including cognitive neuroscience, sensation & perception, learning & memory, attention, knowledge and intelligence, consciousness, problem solving, decision making and psycholinguistics among others. Common methods used to study cognitive processes such as positron emission tomography (PET scan), electroencephalography (EEG) and the polygraph test will also be discussed. (CSU/UC)

**PSY 212 (3.0 Units)****Research Methods in Psychology****Term Hours: 54 Lec, 0 Lab****Letter Grade Only**

Prerequisite: PSY 101 and (PSY 214 or MATH 119) 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 and MATH 091 or MATH 098 with a grade of "C" or better or appropriate placement as defined by AB705.

Quantitative methods in behavioral sciences are considered including: scales of measurement, measures of central tendency and variability; probability and sampling distributions, visual displays of data (graphical methods), frequency tables and percentages; introduction to hypothesis testing, statistical inference and measures of association using correlation and linear regression; analysis of variance, chi-square and t-tests. Emphasis is placed on using software for data analysis such as SPSS and Excel and interpreting statistical findings from such analysis. Examples will be used from disciplines including business, social sciences, psychology, sociology, life sciences, health sciences, education and related areas. (C-ID SOCI 125) (CSU) (UC credit limited. See a counselor.)

**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 105 or ENGL 110 with a grade of "C" or better and READ 019 (Formerly ENGL 019) 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**

This course examines the concept of morality and values, representative ethical theories, and may include their applications to moral problems. (Same as PHIL 104) (CSU/UC)

## RENEWABLE ENERGY

**RNEW 118 (4.0 Units)**

**Alternative Energies**

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

**Letter Grade Only**

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 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**

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)

## 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 affects marriage and the family. (C-ID SOCI 130) (CSU)

### **SOC 120 (3.0 Units)**

#### **Introduction to Research Methods**

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

#### **Letter Grade Only**

Students examine fundamental elements of empirical research and the ways in which sociologists gather, evaluate and critique social data. Includes attention to the nature of theory, hypothesis, variables, and ethics of research. Application of qualitative and quantitative analytic tools including logic and research design, such as survey, observational, experimental, case study, and comparative historical research. This course is intended for students majoring in Sociology or other fields of social science. (C-ID SOCI 120) (CSU/UC)

### **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. (C-ID SOCI 150) (CSU/UC)

### **SOC 180 (3.0 Units)**

#### **La Chicana**

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

#### **Letter Grade Only or Pass/No Pass**

This course provides students with a basic understanding of the Chicana/Mexican-American women in American society in historical and sociological perspective. The course explores the intersections of gender, race, ethnicity, and socio-economic class in Chicana identity

and experiences. Themes include power and resistance; work, family and culture; cultural representations, and the interplay of social process on the development of identity. This course is designed for all students interested in Chicana(o) studies and students who are interested in a broader understanding of the principles, methodologies, value systems, and ethics employed in social scientific inquiry. (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)

## 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) (C-ID SPAN 110) (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. (C-ID SPAN 200) (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. (C-ID SPAN 210) (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. (C-ID SPAN 230) (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**

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)

**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.

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)

This Page Intentionally Left Blank



**CATALOG  
APPENDIX**

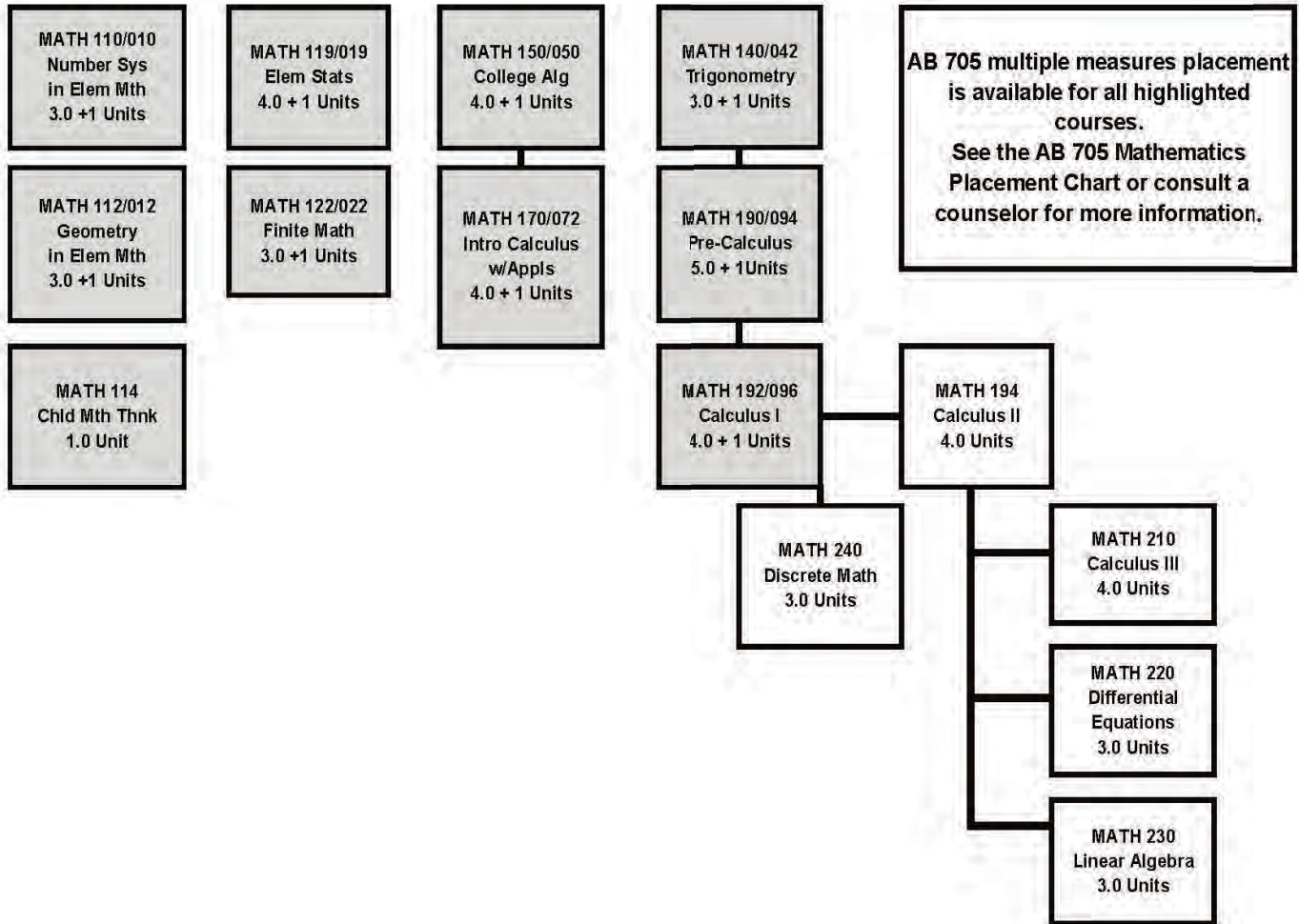
# MATHEMATICS PREREQUISITE CHART

## 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 - Completion of MATH 091 or MATH 098 or any transfer level math course with a grade of "C" or better.

### TRANSFER LEVEL and SUPPORT COURSES



**AB 705 Mathematics Course Placement:**

Placement into math courses is based on the AB 705 multiple measures criteria listed below. Students should work with a counselor to determine the math course that is appropriate for their major.

<b>Non STEM Math Courses with AB 705 Multiple Measures Placement</b>				
<b>Transfer Level Statistics/Liberal Arts Mathematics Courses</b>				
<b>AB 705 Multiple Measures No Additional Support</b>	<b>AB 705 Multiple Measures Additional Support Recommended</b>	<b>AB 705 Multiple Measures Additional Support Strongly Recommended</b>	<b>IVC Course</b>	<b>IVC Support Course</b>
HS GPA greater than 3.0 or less than 2.3 <b>and</b> enrolled in HS pre-calculus  no additional support	HS GPA of 2.3 to 2.9  additional support is recommended	HS GPA of below 2.3  additional support course is strongly recommended	<b>Math 110</b>	<b>Math 010</b>
			<b>Math 112</b>	<b>Math 012</b>
			<b>Math 119</b>	<b>Math 019</b>
			<b>Math 122</b>	<b>Math 022</b>
			<b>Math 150</b>	<b>Math 050</b>
<b>STEM Math Courses with AB 705 Multiple Measures Placement</b>				
<b>AB 705 Multiple Measures No Additional Support</b>	<b>AB 705 Multiple Measures Additional Support Recommended</b>	<b>AB 705 Multiple Measures Additional Support Strongly Recommended</b>	<b>IVC Course</b>	<b>IVC Support Course</b>
HS GPA greater than 3.4 or less than 2.3 <b>and</b> enrolled in HS calculus course  no additional support	HS GPA of 2.6 or less or enrolled in HS pre-calculus course  additional support is recommended	HS GPA of less than 2.6 and no HS pre-calculus  additional support strongly recommended	<b>Math 140</b>	<b>Math 042</b>
			<b>Math 170</b>	<b>Math 072</b>
			<b>Math 190</b>	<b>Math 094</b>
			<b>Math 192</b>	<b>Math 096</b>
<i>This table presumes student completion of intermediate algebra or high school algebra 2 or an equivalent high school course such as integrated math III or any higher-level math course in high school. High school Algebra 2 is highly recommended as preparation for STEM gateway or statistics courses.</i>				

**Optional Mathematics Courses**

Students who feel they need additional math support may choose to self-enroll in courses listed below before they take transfer level courses. Enrollment in these courses is based on self-placement on behalf of the student.

**Degree Applicable Credit Courses:**

**Math 098: Foundations of Algebra (6 units) or Math 091 Intermediate Algebra (5 units)**

**Non Credit Courses: Math 871: Pre-algebra and Math 861 Basic Mathematics**



## NURSING APPENDIX

### ASSOCIATE DEGREE REGISTERED NURSING (RN)

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 Exam and, if successful, will be able to provide nursing care to patients in a variety of health care agencies as an RN. The curriculum consists of support course work in general education, nursing theory, and nursing clinical experience in hospitals or health care agencies within and outside of the county. Admission to the program is by application only with defined multi-screening criteria. Applications are available online at the [RN-Nursing & Allied Health Department](#).

#### ADMISSION PROCESS

##### Eligibility and Application

*\*NOTE: Meeting eligibility does not guarantee admission and the Nursing Program does not maintain a wait list.*

To be eligible for consideration the applicant must:

1. Be eligible for admission to Imperial Valley College.
2. Be at least 18 years of age at the time of admission.
3. Meet the minimum 2.5 GPA for each the following courses:
  - a. ENGL 105 or ENGL 110
  - b. ANTH 102 or SOC 101
  - c. COMM 100
  - d. NURS 100
  - e. PSY 204
  - f. BIOL 220\*
  - g. Anatomy and Physiology Sequence\*
    - i. BIOL 200 and BIOL 202  
OR
    - ii. BIOL 204 and BIOL 206
4. Pass the Test of Essential Academic Skills (TEAS) with a score of 62% or higher.

*\*NOTE: Anatomy must be completed within 10 years and Physiology or Microbiology must be completed within 7 years. The Anatomy and Physiology and Microbiology with a lab component may be taken in any modality (face-to-face or online).*

**Re-entry students** and advanced placement students must meet all requirements listed above.

**Transfer students** requesting acceptance into the IVC Nursing Program must meet all requirements listed above and comply with the following:

1. Transfer students must present a letter from the director of the former program, stating the circumstances necessitating the transfer and an evaluation of clinical safety.
2. Transfer students are not eligible for the IVC Nursing Program, if they were deemed unsafe in the clinical area.
3. Transfer students are not eligible, if they received 2 or more nursing course grades less than a C.

**Applications** are accepted during the following two applications periods:

1. March 1 through March 31 for Fall Admission, unless an extension date is posted.
2. September 1 through September 30 for Spring Admission, unless an extension date is posted.
3. If the last date of the application period falls on a weekend or holiday, the following business day at 5:00 PM will serve as the deadline.

4. Students not accepted to the program will need to resubmit another application. Students are not placed on a wait list.
5. Applications must be submitted to the Nursing and Allied Health Department.
6. Only complete applications will be considered for review.

**Additional Requirements include:**

1. Meet with the nursing counselor to develop an education plan.
2. All students must have a valid social security number (SSN) or Individual taxpayer identification number (ITIN) prior to admission into the nursing program as part of their background check and clearance process.
3. 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](http://www.imperial.edu).

**Selection for Admission**

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 during 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**

Prior to starting the program, the student must pass:

1. 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.
2. An American Heart Association Basic Life Support course and submit a current copy of the card.
3. Criminal background clearance and drug screen:
  - a. Background check must be free of 'flags' as a requirement of the clinical agencies.
  - b. Students who are known to be actively involved in drugs, or child, spouse, or elder abuse will NOT be admitted to the program.
  - c. Students who have been convicted of a misdemeanor or felony are required to disclose such. A conviction may affect clinical placement and eligibility to take the licensure exam.
  - d. Concerns about these circumstances should be discussed with the Program Director.

Identified alternates for the Program:

1. Should vacancies become available prior to the start of the term, that space will be made available for those students chosen as alternates.
2. Alternates will be selected from the remaining list of eligible students based on the stated selection criteria and the number of vacancies available.
3. 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 Transfer Information for Students Seeking an RN to BSN - Bachelor of Science in Nursing Option**

ADRN students interested in seeking a Bachelor of Science in Nursing do so through the RN to BSN university pathway programs. Imperial Valley College holds direct articulation and partnerships with multiple RN to BSN University pathway programs. Students may complete RN to BSN admission requirements while simultaneously preparing for admission to the IVC ADRN program. Please work with a counselor to determine the transfer requirements for your desired institution. RN to BSN concurrent enrollment options are available for students accepted into and enrolled into the IVC ADRN program. Please see a counselor or the **IVC Nursing Department** for more information on RN to BSN concurrent enrollment options.

### **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. Admission is based on space availability and priority as outlined in the **Nursing Handbook**. Applications are accepted throughout the year. It is strongly recommended that students meet with a counselor prior to applying to the nursing program and especially if considering advanced placement Options 1a, 1b or 2.

### **OPTIONS 1a and 1b - VN to RN Associate Degree**

LVNs seeking to complete the RN 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.

### **Prerequisites**

Courses required for the RN Associate Degree must be completed with a grade of "C" or better and minimum admission criteria is a GPA of 2.5 for the following:

- a. ENGL 105 or ENGL 110
- b. ANTH 102 or SOC 101
- c. COMM 100
- d. NURS 100
- e. PSY 204
- f. BIOL 220\*
- g. Anatomy and Physiology Sequence \*
  - i. BIOL 200 and BIOL 202  
OR
  - ii. BIOL 204 and BIOL 206

*\*NOTE: Anatomy must be completed within 10 years and Physiology or Microbiology must be completed within 7 years. The Anatomy and Physiology and Microbiology with a lab component may be taken in any modality (face-to-face or online).*

### **Additional Degree Requirements**

1. ES 100 Lifetime Exercise Science
2. ES Elective Activity Course
3. Humanities Elective
4. American Institutions Requirement

### **Nursing Program Admission Requirements:**

1. Background Screen: Must pass a criminal background check as a requirement of the clinical agencies.
2. Drug Screen: Must pass a drug screen as defined by the Program as a requirement of the clinical agencies.

3. American Heart BLS/CPR Certification: Must be current.
4. IV Therapy Certification: Must be current.

**Progression Policy:**

1. All nursing courses must be taken in sequence and must be completed with a "C" or better to progress to the next level.
2. 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.

**Registered Nursing Program Option 1a**

**This option is for students that are placed into third semester RN coursework**

**Required Courses:**

1. NURS 204 Transition Course
  - 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 two (2) attempts to pass this exam, with a score of 96% on the second attempt.
  - 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.
2. NURS 218
3. NURS 219
4. NURS 223
5. NURS 227

*Clinical experience may include a rotation outside of county.*

**Registered Nursing Program Option 1b**

**This option is for students that are placed into second semester RN coursework**

**Required Courses:**

1. NURS 204 Transition Course
  - 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 two (2) attempts to pass this exam, with a score of 96% on the second attempt.
  - 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.
2. NURS 127
3. NURS 128
4. NURS 218
5. NURS 219
6. NURS 223

## 7. NURS 227

*Clinical experience may include a rotation outside of county.*

### **OPTION 2** - 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](http://www.rn.ca.gov).
2. LVNs seeking the 30-Unit Option must submit proof of completion of an accredited LVN Program or Armed Services nursing courses deemed equivalent to the LVN level, a copy of a current LVN California license, and a signed Disclaimer Form indicating the requirements and limitations of the 30-Unit Option are understood.
3. The program requires students to complete 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. The Anatomy and Physiology and Microbiology with a lab component may be taken in any modality (face-to-face or online).*

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 California 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 219
  - c. NURS 223
  - d. NURS 227

*Clinical experience may include a rotation outside of county.*

### **Highly recommended for successful completion of the major**

- NURS 204

**OPTION 3** - Generic Program - enter in 1st semester. RN 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 Exam 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](http://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

*NOTE: Meeting eligibility does not guarantee immediate admission and the Nursing Program does not maintain a wait list.*

To be eligible for consideration, the applicant must:

1. Be eligible for admission to Imperial Valley College.
2. Be at least 17 years of age at the time of admission.
3. Submit proof of high school graduation or General Educational Development (G.E.D.) certificate. Foreign transcripts must be formally evaluated for equivalency prior to submitting with application.
4. Be in adequate health to perform the duties of a nurse.
5. Submit copies of college transcripts indicating completion of all prerequisites. A minimum GPA of 2.5 must be obtained for required Sciences and in other required courses:
  - a. ENGL 105 or ENGL 110
  - b. AHP 100
  - c. PSY 101
  - d. PSY 204
  - e. BIOL 220\*
  - f. Anatomy and Physiology Sequence\*
    1. BIOL 200 and BIOL 202  
OR
    2. BIOL 204 and BIOL 206
  - g. Highly recommended: NURS 100

*\*NOTE: Anatomy must be completed within 10 years and Physiology or Microbiology must be completed within 7 years. The Anatomy and Physiology and Microbiology with a lab component may be taken in any modality (face-to-face or online).*

### Additional Requirements include:

1. Meet with the nursing counselor to develop an education plan.
2. All students must have a valid social security number (SSN) or Individual taxpayer identification number (ITIN) prior to admission into the nursing program as part of their background check and clearance process.
3. 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](http://www.imperial.edu).

### Selection for Admission:

1. Eligible 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/courses-and-programs/divisions/health-and-public-safety/allied-health-department/](http://www.imperial.edu/courses-and-programs/divisions/health-and-public-safety/allied-health-department/).
3. 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.
- b. An American Heart Association Basic Life Support course and submit a current copy of the card.
- c. Criminal background clearance and drug screen:
  - i. Background check must be free of "flags" as a requirement of the clinical agencies.
  - ii. Students who are known to be actively involved in drugs or child, spouse, or elder abuse will NOT be admitted to the program.
  - iii. Students who have been convicted of a misdemeanor or felony are required to disclose such. A conviction may affect clinical placement and eligibility to take the licensure exam.
  - iv. Concerns about these circumstances should be discussed with the Program Director.

### **Identified alternates for the Program**

1. Should vacancies become available prior to the start of the term, space will be made available for those students chosen as alternates.
2. Alternates will be selected from the remaining list of eligible students based on the number of vacancies available.
3. If not admitted into that term, the alternates must resubmit another application.

### **Associate Degree or Certificate 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 with the academic counselor.

1. An Associate of Science Degree in Vocational Nursing requires additional degree courses along with all required courses for the program. Students may complete General Education requirement as outlined in GE Plans 1, 2 or 3. All required major courses must be completed with a minimum grade of "C" or better.
2. The Certificate in Vocational Nursing requires all required courses to be completed with a minimum grade of "C."
  - Prerequisites and VN Certificate required courses (see Academic Programs section of the catalog)

## 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 four 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)

### **POST-160 (Formerly AJ 160) Regular Basic Course Modular Format Level III**

(Earns a Level III Reserve Certificate)

### **POST-162 (Formerly AJ 162) Regular Basic Course Modular Format Level II**

(Earns a Level II Reserve Certificate)

### **POST-164 (Formerly 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. Students who change from one AJ 141 class to another in the same semester, same school, and within 90 days, do not need a new clearance letter.
  - c. For further information contact the Administrative Justice/POST Department Office
2. Valid California driver's license or State Identification Card.
  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 POST 160 (Formerly AJ 160) Regular Basic Course Level III**

**POST 160 (Formerly AJ 160) 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 POST 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 POST 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 POST 160

### **Eligibility Requirements for POST 162 (Formerly AJ 162) Regular Basic Course Level II**

**POST 162 (Formerly AJ 162) 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 POST 162 (Formerly AJ 162) **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 POST 160 (Formerly AJ 160) 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.
  - e. IVC Students must have taken Module III (POST 160) within three (3) years prior to commencing Module II (POST 162). IVC Students who also completed AJ 141 after POST 160 have three (3) years upon completion of AJ 141.
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 POST 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 Administration of 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 POST 164 Regular Basic Course Level I**

**POST 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 POST 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 POST 162 (Formerly AJ 162) 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 Director 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.
  - e. IVC Students must have taken Module II (POST 162) within three (3) years prior to commencing Module I (POST 160). IVC Students who also completed AJ 141 after POST 162 have three (3) years upon completion of AJ 141.
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 Administration of 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 POST Entry Level Law Enforcement Test Battery (PELLETB) within 6 months of the desired class starting date.
  10. Obtained a score of 250 on the POST 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, 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. All regulations pertaining to law enforcement training can be found in the California Code of Regulations and the California Penal Code. Please contact the Administration of 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. All regulations pertaining to law enforcement training can be found in the California Code of Regulations and the California Penal Code. Please contact the Administration of Justice and POST Department Office for further information regarding these requirements.

### **Credit for Administration of Justice Coursework:**

Students who have successfully completed one of the certified Basic Academy Programs in law enforcement or corrections listed below may use the Industry Recognized Credentials (IRC) to petition to earn coursework credit

within the Correctional Science or Administration of Justice curriculum. Credit will be earned upon documentation of academy completion and Division Chair approval. In order to earn credit, students must be enrolled and in good standing at the college and have declared an appropriate academic goal. All transcripts from all colleges attended must be on file and evaluated prior to the awarding of credit. The IRC petition is available on the Admissions and Records website under the Forms for Students section of the IVC website. A separate IRC petition must be submitted for each course award. Students should consult a counselor for more information.

22 – 23 Credit for Prior Learning Law Enforcement Academy Course Award Summary with Unit Count					
Academy	Documentation	CPL Awarding	Course Awards	Units	Academic Goal
Border Patrol	NA	NA	None	NA	NA
Highway Patrol	Certificate of Completion	IRC	AJ 100 3 units AJ 141 3.5 units	6.5 units	Administration of Justice AS
Post Basic	Certificate of Completion	IRC	AJ 100 3 units AJ 141 3.5 units	6.5 units	Administration of Justice AS
Probation Officer	Certificate of Completion	IRC	CSI 104 3 units AJ 141 3.5 units	6.5 units	Correctional Science AS
Department of Corrections Local, State or Federal	Certificate of Completion	IRC	CSI 208 3 units AJ 141 3.5 units	6.5 units	Correctional Science AS

# FIRE ACADEMY APPENDIX

## FIREFIGHTER I CERTIFICATE

The Firefighter I Certificate of Achievement program will cover the principles, procedures, 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.

### ADMISSION PROCESS

#### I. Admission Criteria

Students meeting the criteria below, are eligible to apply:

- Be a high school graduate or have completed the GED.
- Be 18 years of age or older, in good health, and be able to lift a minimum of 65 lbs. and drag a minimum of 140 lbs.
- Ability to pass the Basic Fire Academy Entrance Exam.
- Ability to pass required Physical Agility Test.

#### II. Application process

- Complete the Application and Questionnaire. The application, questionnaire, checklist and fire academy flyer can be downloaded from the following link: <https://www.imperial.edu/public-safety-department/fire-academy-program-firefighter-1>
- Follow the checklist and attach the required documentation.
- Submit application. Turn in the completed application packet to Building 3200 during the periods of January 1 to March 31. Incomplete applications will not be considered.
- Applications are reviewed by program coordinator and at least one fire instructor. Applicants will be notified of results via email.

#### III. Additional Information (for selected applicants)

- **Background Check & Drug Screen:** Students must complete a background check and drug screen. Criminal, misdemeanor, or driving offenses may impact acceptance.
- **Physical Exam:** Students must get a physical and TB skin test. This may be done on campus at the Student Health Center or by private physician.
- **Orientation:** There will be an orientation day to discuss the requirements and expectations of the program. Required uniforms, accessories, background clearances, drug screening, etc. will be included in the information provided.
- **Costs:** Costs run approximately \$1,700 for the program and include tuition, parking, student fees, textbooks, required uniforms, accessories, background check/drug screening and materials fee.
- **Conduct:** This program is a paramilitary type program with a high level of professionalism. More details and expectations in this area will be discussed during orientation.
- **Advisement:** Students are advised to meet with a counselor to make sure of program and college requirements and additional resources.

#### IV. Required Program Courses

FIRE 140 Fire-First Responders	9.5 units
FIRE 142 Firefighter Academy 1	10.0 units
FIRE 144 Firefighter Academy 2	3.0 units
<b>Total certificate units:</b>	<b>22.5 units</b>



**ADMINISTRATION  
AND FACULTY**

## Administration

### **CARBONI, CUAUHEMOC**

#### ***Interim Dean of Instruction - Math and Sciences***

Ph.D., University of New Mexico  
M.S., Humboldt State University  
B.S., Humboldt State University  
A.S., Victor Valley College

### **CARRILLO, JOSE**

#### ***Associate Dean of Institutional Effectiveness, Equity and Student Success***

M.P.H., University of California, Los Angeles  
B.A., University of California, Los Angeles

### **DALSKE, JAMES**

#### ***Dean, Student Affairs and Enrollment Services***

M.A., Chapman University  
B.S., California Maritime Academy

### **DOUGHERTY, CLINT**

#### ***Associate Vice President, Human Resources***

MS., Troy State University  
BA., Saint Leo College  
AA., San Diego City College

### **DRURY, DAVID**

#### ***Interim Vice President for Academic Services***

M.S., Brigham Young University  
B.S., University of LaVerne

### **ENZ, JEFFREY**

#### ***Associate Vice President, Information Technology***

MPA., Grand Canyon University  
B.S., University of Phoenix

### **ESPINOZA, ELIZABETH**

#### ***Communications and Governmental Relations Officer***

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

### **JOHNSON, DR. LENNOR**

#### ***Superintendent/President***

Ed.D., Argosy University  
MBA., Governors State University  
BA., Robert Morris University

### **LANE, BETSY**

#### ***Dean of Instruction - Arts, Letters and Learning Services***

M.A., University of Northern Colorado  
B.A., California State University, Long Beach

### **ORTIZ, DANIEL JR.**

#### ***Interim Associate Dean of Nursing and Allied Health***

DNP., Azusa Pacific University  
MSN., Grand Canyon University  
BSN., University of Phoenix  
ADN., Imperial Valley College

### **SILVA, EFRAIN**

#### ***Dean of Instruction - Economic and Workforce Development***

M.B.A., Northern Arizona University  
B.A., San Diego State University  
A.A., Imperial Valley College

### **TORRES, VICTOR**

#### ***Interim Vice President for Student Services and Equity Associate Dean/Workforce Preparation and Community Special Projects***

M.A., Point Loma Nazarene University  
B.A., San Diego State University

### **VEGA, CESAR**

#### ***Vice President for Administrative Services***

M.A., University of Redlands  
B.A., National University

### **VILLA, ALEXIS**

#### ***Dean of Student Services and Special Projects***

M.A., San Diego State University  
M.P.A., San Diego State University  
B.A., San Francisco State University

### **WARNER, GAIL**

#### ***Dean of Instruction - Health and Public Safety***

M.S., University of Tennessee  
B.S., Tusculum College

## The Faculty

### **ALSHYKHLY, OMAR**

#### ***Associate Professor, Chemistry***

Ph.D., University of Utah, Salt Lake City

M.S., University of Baghdad/Iraq

B.S., University of Baghdad/Iraq

### **ALVARADO, BEATRIZ**

#### ***Counselor, Professor***

M.A., University of San Diego

B.A., San Diego State University

A.A., Imperial Valley College

### **ARAIZA, CARLOS**

#### ***Associate Professor, Welding***

A.S., Imperial Valley College

### **ARGÜELLES, TRINIDAD**

#### ***District Counseling Coordinator, Professor***

M.A., University of Redlands

B.A., San Diego State University

A.A., Imperial Valley College

### **ARMENTA, CELESTE**

#### ***Professor, Nursing***

D.N.P., University of San Diego

F.N.P., University of San Diego

M.S., National University

B.S., National University

### **AVILA, BEATRIZ**

#### ***Counselor, Professor***

M.A., University of Redlands

B.S., California Polytechnic State University, San Luis Obispo

### **BALUYUT, PEARLIE**

#### ***Assistant Professor, Communication Studies***

Ph.D., University of California, Los Angeles

M.A., University of California, Los Angeles

### **BARCROFT, SHAWN**

#### ***Assistant Professor, History***

M.A., California State University, Sacramento

B.A., University of Nevada, Reno

### **BAUKHOLT, ROBERT**

#### ***Professor, English***

M.A., California State University, Northridge

B.A., University of California, Los Angeles

A.A., College of the Canyons

### **BECKLEY, JEFFREY**

#### ***Professor, Business***

J.D., University of Washington

B.A., Idaho State University

### **BENEDICTO, ALTO**

#### ***Professor, Chemistry***

Ph.D., California Institute of Technology

M.A., Claremont Graduate University

B.S., University of the Philippines

### **BENNETT, CAROLINE**

#### ***Associate Professor, Mathematics***

M.A., San Diego State University

B.A., San Diego State University

### **BEOPE, NIKOLAI**

#### ***Assistant Professor, English***

M.F.A., University of California, San Diego

B.A., San Diego State University

A.A., Grossmont Community College

### **BLEK, CRAIG**

#### ***Professor, Economics***

M.A., University of Delaware

B.A., University of California, Los Angeles

### **BRAVO, CARMEN LUZ**

#### ***Associate Professor, Nursing***

MSN., University of Phoenix

BSN., University of Phoenix

### **BROCK, ALISON**

#### ***Professor, Office Technologies and Business***

M.S., San Diego State University

B.S., William Woods University

### **BURT, JEFFERY**

#### ***Associate Professor, Mathematics***

M.A., San Diego State University

B.A., San Diego State University

A.S., Imperial Valley College

### **CAMPOS, GILBERT**

#### ***Counselor***

M.A., University of Redlands

B.A., San Diego State University

### **CAÑEZ - SAVALA, SAID**

#### ***Counselor***

M.Ed., University of San Diego

B.A., San Diego State University

### **CARR, MICHAEL**

#### ***Assistant Professor, Computer Information Systems***

M.B.A., University of Phoenix

B.S., University of Phoenix

### **CAUCHON, STEVEN**

#### ***Assistant Professor, Political Science***

Ph.D., University of California, Riverside

M.A., University of California, Riverside

B.A., California State University, San Diego

### **CHANG, EDDIE**

#### ***Professor, Biological Sciences***

Ph.D., University of Missouri

M.A., San Francisco State University

B.S., University of San Francisco

### **CHAVEZ, MIGUEL**

#### ***Assistant Professor, Ethnic Studies***

Ph.D., University of California, Los Angeles

M.A., University of California, Los Angeles

B.A., University of California, Berkeley

### **CONTRERAS, ROSA**

#### ***Assistant Professor, English as a Second Language***

M.A., National University

B.A., San Diego State University

A.A., Imperial Valley College

### **CORMIER, JUDY**

#### ***Professor, English***

M.A., California State University, Long Beach

B.A., California State University, Long Beach

A.A., Golden West College



**COZZANI, ALEJANDRO****Professor, Physics/Mathematics**

Ph.D., American World University  
 M.S., American World University  
 M.A., San Diego State University  
 M.S., Chadwick University  
 B.S., Instituto Nacional Superior del  
 Profesorado "Dr. Joaquin V  
 Gonzalez"

**CRAVEN, JULIE****Professor, English as a Second Language**

M.A., United States International  
 University  
 B.A., San Diego State University  
 A.A., Fullerton College

**DAVIS, HOPE****Professor, Music**

Ph.D., University of Southern  
 Mississippi  
 D.M.A., Louisiana State University  
 M.A., University of Wyoming  
 B.M., Royal College of Music/Trinity  
 College  
 A.M., Trinity College

**DEYO, JEFF****Professor, Physical Education/Health**

M.S., West Virginia University  
 B.A., Mount Marty College

**DIAZ, DOLORES****Project Director, Student Support Services, Professor**

M.Ed., University of San Diego  
 B.A., San Diego State University

**DORSEY, TANYA****Counselor**

M.A., University of Redlands  
 B.A., San Diego State University  
 A.A., Imperial Valley College

**EDWARDS, AARON****Professor, Philosophy**

M.A., San Diego State University  
 B.A., San Diego State University  
 A.A., San Diego Mesa Community  
 College

**ENCINAS, SUELLEN****Assistant Professor, Nursing**

M.S., University of Phoenix  
 B.S., University of Phoenix  
 A.S., Imperial Valley College

**EPPS, RICHARD****Associate Professor, Political Science**

M.A., University of California, Los  
 Angeles  
 B.A., University of California, Los  
 Angeles

**ESQUER, MARIA****Counselor**

M.A., Point Loma Nazarene  
 University  
 B.A., San Diego State University  
 A.A., Imperial Valley College

**FIGUEROA, VERONICA****Counselor, Professor**

M.A., University of Redlands  
 B.A., San Diego State University  
 A.S., Imperial Valley College

**FINNELL, LILLIAN****CalWorks Counseling Coordinator,**

M.Ed., Northern Arizona University  
 B.A., San Diego State University  
 A.A., Imperial Valley College

**FISHER, JAMES****Professor, Chemistry**

Ph.D. University of Idaho  
 B.A., University of Montana

**FLETES, MYRIAM****Project Director, Talent Search**

M.A., University of Redlands  
 B.A., University of Arizona

**FRISTRUP, CAREY****Counselor**

M.A., Point Loma Nazarene  
 University  
 B.A., San Diego State University

**GARCIA, ANALISE****Counselor**

M.S., National University  
 B.A., San Diego State University  
 AA., Imperial Valley College

**GARCIA, OLIVIA****Professor, English**

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

**GARZA, ALEJANDRO****Professor, English as a Second Language**

M.A., California State Polytechnic  
 University, Pomona  
 B.A., California State University, Los  
 Angeles  
 A.A., Pasadena City College

**GHANIM, WALID****Professor, Computer Information Systems**

M.A., California State University,  
 Dominguez Hills  
 B.S., California State University,  
 Dominguez Hills

**GILISON, DANIEL****Professor, Biological Sciences**

Ph.D., Stanford University  
 B.A., Johns Hopkins University

**GOMEZ, KRISTEN****Transfer Center Coordinator and Articulation Officer**

M.A, University of Redlands  
 B.S., California State Polytechnic  
 University,  
 San Luis Obispo

**GONZALEZ, SUELLEN****Counselor**

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

**GUINN, MELANI****Associate Professor, Communication Studies**

Ph.D., University of California,  
 Berkeley  
 M.A., University of California,  
 Berkeley  
 B.A., University of California,  
 Berkeley

**HANSINK, TODD****Professor, Business**

M.P.A., Brigham Young University  
 B.S., Brigham Young University

**HEGARTY, CAROL****Professor, Art**

M.F.A., School of the Art Institute of Chicago  
 B.F.A., School of the Art Institute of Chicago

**HERNANDEZ, OSCAR****Professor, Mathematics**

B.S., San Diego State University

**HEUMANN, MICHAEL****Professor, English**

Ph.D., University of California, Riverside  
 M.A., University of California, Riverside  
 B.A., University of California, Riverside

**HOLT, STEVE****Professor, Emergency****Medical Technologies**

BS., Grand Canyon University  
 A.S., Imperial Valley College

**HOWELL, KEVIN****Professor, English**

M.S., Suny Cortland  
 M.A., Suny Binghamton  
 B.A., Temple University

**HU, ZHONG****Associate Professor, Mathematics**

M.A., University of California, Los Angeles  
 B.A., University of California, Los Angeles

**JEPSON, ROSALBA****Professor, Nursing**

M.S., University of Phoenix  
 B.S., University of Phoenix  
 A.S., Imperial Valley College

**KANYI, MICHAEL****Associate Professor/Coordinator, Agricultural Programs**

Ph.D., Texas Tech University  
 M.S., Egerton University  
 B.S., Egerton University

**KEMP, ELIZABETH****Associate Professor, English as a Second Language**

M.A., University of California, Irvine  
 B.A., San Diego State University

**KITZMILLER, JILL****Professor, Mathematics**

M.A., San Diego State University  
 B.A., University of California, San Diego

**KJELLANDER, PATRICK****Assistant Professor, Communication Studies**

M.A., San Diego State University  
 B.A., California State University, Northridge

**KUNATH, JULIE****Assistant Professor, Nursing**

MSN., San Diego State University  
 BSN., University of Wisconsin-Milwaukee

**LAFF, REBECCA****Assistant Professor, Early Childhood Education**

M.S., California State University, Northridge  
 B.A., California State University, Northridge

**LEHTONEN, ERIC****Professor, Mathematics**

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

**LEON, ALLYN****Professor, Mathematics**

M.S., Texas A&M University  
 B.A., University of California, San Diego

**LONSDALE, MICHAEL****Assistant Professor, Physical Education/Health**

M.S., Concordia University  
 B.S., California State University, Monterey Bay

**LOVITT, PAIGE****Counselor, Professor**

M.S., California State University, Fresno  
 B.A., California State University, Fresno

**MADANI, BEHRANG****Associate Professor, Chemistry**

Ph.D., Louis Pasteur University  
 M.S., Louis Pasteur University  
 B.S., Azad University

**MADANI, SETARAH****Associate Professor, Biological Sciences**

BS., Shahid Beheshi University  
 MS., Alzahra University

**MARQUEZ, ARTURO****Assistant Professor, Anthropology**

Ph.D., Northwestern University  
 M.A., Autonomous University of Barcelona  
 B.A., San Francisco State University  
 A.A., Imperial Valley College

**MARQUEZ, RUMALDO****Associate Professor, Communication Studies**

M.A., Gonzaga University  
 M.S., California State University, San Bernardino  
 B.A., California State University, San Bernardino  
 A.A., Imperial Valley College

**MARTINEZ, ANDRES****Professor, Computer Information Systems**

M.S., National University  
 B.A., San Diego State University  
 A.S., Imperial Valley College

**MARTY, KEVIN****Professor, Geology**

M.S., University of New Orleans  
 B.S., Central Washington University

**MECATE II, JAMES****Professor, Physical Ed/Health**

M.S., Brigham Young University  
 B.S., Brigham Young University

**MENDOZA, LIISA**  
*Professor, American Sign Language*  
B.S., University of Arizona

**MINOR, MONICA**  
*Counselor, Associate Professor*  
M.A., Point Loma Nazarene  
University  
B.A., San Diego State University

**MIRANDA, FRANK**  
*Professor, Air Conditioning & Heat  
Ventilation*  
Contractors State License

**MORA, CRISTAL**  
*Associate Professor, Nursing*  
M.S., University of Phoenix  
B.S., University of Phoenix

**MORALES, ROXANNE**  
*Counselor, Associate Professor*  
M.S., University of Phoenix  
B.S., San Diego State University

**MORRIS, AUDREY**  
*Professor, Reading*  
M.S., Buffalo State University  
M.S., University of Oklahoma  
B.A., Mercer University

**MOSS, SUSAN**  
*Professor, Biological Sciences*  
M.S., University of Florida  
M.S., University of Oklahoma  
B.A., Mercer University

**MYERS, CERISE**  
*Associate Professor, Art History*  
Ph.D., University of Minnesota  
M.A., Bowling Green State  
University  
B.S., Union College

**NELIPOVICH, JILL**  
*Professor, Mathematics*  
M.A., San Diego State University  
B.A., San Diego State University

**NUÑEZ, NORMA**  
*Student Success and Support  
Coordinator,*  
M.S., San Diego State University  
A.B., San Diego State University  
A.A. Imperial Valley College

**ORTEGA, JESUS ALICIA**  
*Assistant Professor, Nursing*  
M.S., South University  
B.S., Grand Canyon University  
A.S., Imperial Valley College

**ORTIZ, OCTAVIO**  
*Assistant Professor, Computer  
Science/Engineering*  
M.S., San Diego State University  
B.S., San Diego State University

**PASTRANA, LETICIA**  
*Professor, French*  
Ph.D., University of California,  
Riverside  
M.A., Monterey Institute of  
International Studies  
B.A., University of California,  
Riverside

**PATEL, ARUNA**  
*Associate Professor/Coordinator,  
Alcohol and Drug Studies*  
B.A., San Diego State University  
A.A., Imperial Valley College  
A.S., Imperial Valley College

**PATTERSON, JAMES**  
*Professor, English*  
Ph.D., The Union Institute  
M.A., Arizona State University  
B.A., Grand Canyon University

**PAULEY, PATRICK**  
*Professor, Biological Sciences*  
Ed.D., Texas Tech University  
M.S., California State Polytechnic  
University  
B.S., California State Polytechnic  
University  
A.S., West Hills Community College

**PESQUEIRA, EDUARDO**  
*Counselor*  
M.S.W., California State University,  
Northridge  
B.A., San Diego State University

**PESQUEIRA, SERGIO JR.**  
*EOPS Coordinator, Assistant  
Professor*  
Ph.D., Claremont Graduate  
University  
M.A., Loyola Marymount University  
B.A., University of San Diego

**PIPKIN, JOSEPH**  
*Assistant Professor, Psychology*  
Ph.D., University of Texas, El Paso  
M.A., California State University,  
San Bernardino  
B.A., San Diego State University  
A.S., Imperial Valley College

**PLASCENCIA, JOSE**  
*Counselor,*  
M.S.W., San Diego State University  
B.A., San Diego State University  
A.A., Imperial Valley College  
A.S., Imperial Valley College

**PRADIS, RICARDO**  
*Professor, Automotive Technology*  
Universal Technical Institute,  
Phoenix AZ

**RANGEL, JAVIER**  
*Professor, Spanish*  
Ph.D., University of California, Los  
Angeles  
M.A., California State University,  
San Diego  
A.B., California State University, San  
Diego  
A.A., Imperial Valley College

**REYES, BARBARA**  
*Associate Professor, Sociology*  
M.A., California State University,  
San Marcos  
B.A., California State University, San  
Marcos

**RICE, SYDNEY**  
*Professor, English as a Second  
Language*  
Ed.D., American College of  
Education  
M.A., California State University,  
Long Beach  
B.A., Whitworth College

**ROBINSON, ANDREW**  
*Professor, Physical Ed/Health  
& Men's Basketball Coach*  
M.PH., California State University,  
Fresno  
B.A., California State University,  
Fresno

**RODILES, NICOLE**  
*Professor, Psychology*  
M.A., San Diego State University  
B.A., San Diego State University

**RODRIGUEZ, KATHY**  
*Professor, Administration of Justice*  
M.S., National University, San Diego  
B.S., San Diego State University

**ROMAN, JOSE SR**  
*Associate Professor, Electrical Wiring/  
Renewable Energy*  
BS., California State Polytechnic University  
AS., Imperial Valley College

**RUIZ, ANGELICA**  
*Professor, Business*  
M.A., California State University, San Bernardino  
B.A., Loma Linda University  
A.A., Imperial Valley College

**RUIZ, JOSE**  
*Professor, Spanish*  
Ph.D., University of California, San Diego  
M.A., San Diego State University  
B.A., San Diego State University

**SANCHEZ-DOMINGUEZ, ROMANO**  
*Professor, Spanish*  
M.A., University of California, San Diego  
B.A., University of California, San Diego

**SANDOVAL, ANGEL**  
*Associate Professor, English*  
M.F.A., San Diego State University  
B.A., San Diego State University  
A.A., Imperial Valley College

**SANTOS, TERESA**  
*Assistant Professor, Nursing*  
M.S.N., Purdue Global University  
B.S.N., San Diego State University

**SCHEUERELL, EDWARD**  
*Professor, English as a Second Language*  
M.A., University of Illinois  
M.A., (Spanish) University of Illinois  
B.A., University of Illinois

**SCOTT, NORMA**  
*Counselor*  
M.A., University of Redlands  
B.A., San Diego State University

**SHANER, CHRISTINA**  
*Professor, English*  
M.A., Carnegie Mellon University  
B.A., Texas Christian University

**SHEPPARD, DAVID**  
*Professor, Child Development/ECE Programs*  
M.S., San Diego State University  
B.S., Cal State University Fullerton

**SHOKOUFI, MARDJAN**  
*Professor, Mathematics*  
M.S., San Diego State University  
B.S., California State University, Northridge

**SIGALA, ANA**  
*CalWORKs Assessment Coordinator,  
Professor*  
M.A., Point Loma Nazarene University  
B.A., San Diego State University

**SIMPSON, SCOTT**  
*Professor, English*  
M.A., University of Illinois  
M.A., Michigan State University  
B.A., University of Maine

**SOLOMON, LISA**  
*Professor, History*  
M.A., California State University, Stanislaus  
B.A., California State University, Fresno

**SPENCE, CYNTHIA**  
*Associate Professor, English*  
Ed.D., California State University, San Bernardino  
M.A., California State University, San Bernardino  
B.A., California State University, San Bernardino

**SUN, JIA**  
*Associate Professor, Biological Sciences*  
Ph.D., University of California, Riverside  
M.S., California State University, Long Beach  
B.S., University of California, Los Angeles

**THELEN, AUSTEN**  
*Associate Professor, Geography*  
Ph.D., University of Kansas  
M.A., University of Kansas  
B.S., Michigan State University

**THOMAS, DIANA**  
*Counselor*  
M.A., University of Redlands  
B.S., San Diego State University

**TIRADO, XOCHITL**  
*Distance Education Coordinator,  
Professor*  
M.A., National University  
M.S., San Diego State University  
B.A., San Diego State University  
A.A., Imperial Valley College

**TREVINO, ELIZABETH**  
*Counselor, Associate Professor*  
M.A., University of Redlands  
B.A., San Diego State University  
A.S., Imperial Valley College

**TUCKER, JILL**  
*Professor, Physical Education/Health*  
M.A., Grand Canyon University  
B.A., Eastern New Mexico University

**VELASQUEZ, JOSE**  
*Professor, Construction Technologies*  
B.A., San Diego State University  
A.S., Imperial Valley College

**VELOVICH, MICHELLE**  
*Public Safety Coordinator*  
M.S., National University  
B.S., National University

**VILDOSOLA, HECTOR**  
*Assistant Professor, Health,  
Physical Ed, Kinesiology*  
M.S., University of Pennsylvania

**VILLALOBOS, FATIMA**  
*Assistant Professor, Biological  
Sciences*  
M.S., San Diego State University  
M.Ed., University of California, San  
Diego  
B.S., University of California, San  
Diego

**VIZCARRA, MARGARITA**  
*Counselor, Associate Professor*  
M.A., University of Redlands  
B.A., San Diego State University  
A.A., Imperial Valley College

**VOLDMAN, ALEKSANDR**  
*Professor, Mathematics*  
Ed.D., Kishinev Math Institute  
M.S., San Bernardino University  
B.S., Northeastern University

**WINFORD, SUMMER**  
*Assistant Professor, Nursing*  
BSN., University of Phoenix  
A.S., Imperial Valley College

**WORSHAM, SABRINA**  
*Professor, Communication Studies*  
M.A., California State University,  
Long Beach  
B.S., Bradley University

**WRIGHT, BRADFORD**  
*Professor, History*  
Ph.D., Purdue University  
M.A., Purdue University  
B.A., University of Vermont

**WYATT, ROBERT**  
*Assistant Professor, Psychology*  
M.A., University of North Dakota  
B.A., San Diego State University

## Emeritus Faculty

† = *Deceased*

**AKERS, H. RUSSELL †**

Physically Limited  
1973-1987

**ALBERDA, STANLEY †**

Dean of Learning Services  
1969-1993

**ANDERSON, LESLIE**

Law Enforcement  
1967-1983

**ARAGON, RAUL †**

Counselor, Professor  
1973-2006

**ARCHULETA, JOE**

Math  
1974-2008

**ARTECHI, G. OLGA**

Counseling  
1976-2019

**BACON, JEANNE**

Physically Limited  
1973-1985

**BAILEY, GORDON**

CIS/CISCO Networking  
2012-2022

**BANKS, STANLEY †**

Sociology  
1966-1987

**BARKALOW, N.C. †**

Law Enforcement  
1974-1981

**BARKER, MICHAEL †**

Anthropology  
1968-1979

**BEMIS, ROBERTA**

English  
1994-2020

**BEOPE, FRANCES**

Counselor, Professor  
1975-2012

**BERNARD, WILLIS C.**

Art  
1969-1988

**BILEY, PATTI**

English  
1990-2011

**BILLINGS, LANELLE**

Business  
1974-1999

**BILLINGS, ROBERT C. †**

Physical Ed, Auto Tech  
1968-1999

**BORCHARD, MARY KAY**

Professor, Administration of Justice  
P.O.S.T. Coordinator  
1983-2006

**BRUNGARDT, MARTHA †**

Nursing  
1972-1985

**BUCKEL, EILEEN**

Dean of Learning Services  
1993-2005

**CARLSON, MARYLYNN †**

Nursing  
1984-2009

**CARNES, DENNIS †**

Biology  
1995-2009

**CASTRAPEL, RICK**

Computer Science/Mathematics  
2006-2020

**CERDA, DANIEL †**

English  
1974-2003

**CERDA, ERNESTINE**

English  
1974-2003

**CHAMPAGNE, PHILIP †**

Welding  
1971-1989

**CHIEN, ANDREW**

Professor, Biological Sciences  
2004-2022

**CLARKSON, JOHN †**

English as a Second Language  
2016-2020

**DAVID, SAMUEL**

Biological Science/Chemistry  
2001-2018

**DAVIS, DONNA**

Nursing  
2001-2015

**DECKER, VAN**

Music  
2000-2015

**DePAOLI, JOHN A. †**

Superintendent/President  
1965-1995

**DOMINGUEZ, GILBERT**

Superintendent/President  
1996-2002

**DUFF, JACK †**

Counseling  
1981-1985

**DUVA, MARK †**

Associate Professor, Psychology  
1981-1985

**ESQUEDA, JESUS**

Counselor  
1990-2021

**FARRAR, LLOYD †**

History  
1968-1992

**FARRIER, PAUL**

History  
1970-1994

**FIELDS, MAX**

Health Education/Physical Education  
1969-1994

**FINLEY, LUTHER †**

Engineering  
1960-1981

**FINNEY, DEE**

Physical Education  
1967-1981

**FISCHER, FRED †**

English  
1982-2009

**FITZSIMMONS, RICHARD**

Nursing  
1991-2018

**FUESLER, JACK †**

Music  
1964-1989

**GAGE-MOSHER, RONALD**

Psychology  
2000-2010

**GALAMGAM, ADELE †**

Assistant Librarian  
1965-1994

**GARCIA, RAQUEL**

Instructional Specialist, Professor  
2000-2021

**GARTIN, HERBERT †**

Psychology  
1966-1978

**GRETZ, SUZANNE**

Professor, History  
2002-2022

**GENTRY, GLENN A. †**

Work Experience  
1967-1981

**GERARD, ROBERT †**

Coord., Special Populations  
1988-1993

**GILBERTSON, THOMAS**

Art  
2000-2012

**GOLDSBERRY, RICK †**

EMS Program Director  
2008-2016

**GRANADOS, ESTHER**

Business  
1990-1999

**GREVATT, JAMES**

Counseling  
1975-1996

**GRIFFIN, WILLIAM †**

Business  
1961-1992

**GUZMAN, CESAR**

Counselor, Professor  
1975-2011

**HANN, CAROL**

Professor, English  
1975-2006

**HANN, RICHARD**

Humanities  
1967-2003

**HARRIS, DIANE**

English as a Second Language  
2000-2020

**HEBERT, ROGER**

Physical Education  
1968-1994

**HIGGINS, S. BRENDA**

Allied Health  
2002-2012

**HIGGINSON, JANE**

Environmental Science  
2005-2012

**HILLHOUSE, ROSANNE**

English  
1963-1999

**HINSHAW, JOHN †**

Mathematics  
1942-1973

**HOPPE, FRANK**

Librarian  
2010-2019

**HORTON, SIDNE**

Physical Ed/Health  
1993-2020

**HUGHES, MERRLYNN**

Nursing  
1986-1997

**JACOBSON, ERIC**

History  
1992-2015

**JACKLICH, JOEL**

Music  
1989-2006

**JAIME, VICTOR**

Superintendent/President  
1980-2018

**JERGE, MICHAEL †**

Business, Economics  
1967-1999

**JONES, SHIRLEY**

Counseling  
1982-1999

**KELLY, NANNETTE**

Professor, Art and Humanities  
1988-2020

**KELSOE, LEON**

History & Exercise Science  
1970-2003

**KNAAK, MANFRED †**

Anthropology  
2004-2022

**KNOWLTON, ROGER**

Mathematics  
1976-1999

**KOSKI, RAUHA K.**

Nursing  
1974-1981

**LANFORD, CONWAY †**

Counseling  
1970-1984

**LARSSON, HAROLD**

Astronomy  
1966-1984

**LAVERY, RUSSELL**

Astronomy/Physical Science  
2004-2021

**LAY, NANCY**

English  
2005-2018

**LEE, CAROL**

Counselor, Professor  
1996-2012

**LEGARRA, STANLEY**

Health Education/  
Physical Education  
1974-1992

**LEONARD, THOMAS †**

Psychology  
1964-1972

**LEPTICH, DEAN †**

Speech  
1965-1996

**LEWIS, STANLEY H. †**

Ag/Heavy Equip. Mech.  
1969-1983

**LOPEZ, HECTOR**

VP/Stu Svcs/Deputy Supt  
1970-1999

**LOFGREN, MARY**

Counselor, Professor  
1985-2020

**LOPEZ, REUBEN O. †**

Dean of Extended Campus  
1974-2001

**LOPEZ, ROSALIE**

Upward Bound Project Director  
1979-2020

**LOWE, JUANITA †**

Art  
1961-1990

**LUOMA, CRAIG**

Nursing  
1985-2015

**MACCI, BARBARA †**

Dean of Voc Ed  
1976-1996

**MAGNO, JANIS**

Dean of Enrollment Services  
1983-2012

**MARCUSON, BRUCE †**

Administration of Justice  
1990-2012

**MARKS, BETTY**

Nursing  
1984-2000

**MARTINI, DONALD**

English  
2000-2014

**MARQUEZ, RALPH**

Counselor, Professor  
1989-2020

**MCCORMICK, J. MICHAEL †**

English  
1972-2008

**MCNEECE, BRIAN**

English  
1986-2015

**MEEK, AL**

Nursing  
1974-2012

**MELLINGER, ELWOOD †**

Agriculture  
1961-1989

**MERCADO, MARIA LOURDES**

Counselor, Professor  
1999-2020

**MOSIER, LAURA**

Speech  
2005-2015

**MONTENEGRO, JEAN †**

English, ESL, and Exercise  
Science, Wellness & Sport  
1966-2000

**MOORE, ERNEST †**

Business  
1970-1978

**MOORE, ROBERT †**

Business  
1970-1988

**NADEAU, NANCY**

English Instructor  
1975-2002

**NAVA, NORMA**

DSP&S Coordinator, Professor  
1985-2020

**NORRIS, TERRY**

R/W Lab Tutorial Specialist  
2006-2017

**NOVAK, RUTH †**

Dean of Counseling  
1958-1972

**NILSON, BARBARA**

Mathematics  
1999-2014

**ORENSZTEIN, ARMAND †**

Mathematics  
1967-2009



**ORFANOS-WOO, STELLA**

Counselor  
1990-2021

**ORTEGA, ALICIA**

Foreign Language  
1967-2009

**OVERMAN, RUTH †**

Business  
1965-1981

**PAINE, THOMAS**

Computer Information Systems  
1998-2011

**PAGE, BRUCE**

Speech/Journalism  
2004-2020

**PAINE, YVONNE**

English  
2007-2011

**PAULSON, CLARENCE †**

Business  
1960-1988

**PENDLEY, J.R.**

Science  
1967-2003

**PERSKE, GERALD †**

Science  
1960-1994

**PETERSON, AVIS**

Nursing  
1984-1991

**POLLOCK-BLEVINS, DIEDRE**

Nursing  
1985-2015

**PONCE, JOSEFINA**

English as a Second Language  
1989-2020

**RAULSTON, JEAN †**

English  
1977-1994

**RICE, PAULINE BENOIT †**

Foreign Language/Humanities  
1963-1988

**RICHARDS-CROFT, DONNA**

Business  
1998-2005

**RICHWINE, HAROLD †**

Chemistry/Physical Ed  
1960-1999

**RIEHLE, BETSY**

Mathematics  
2002-2015

**RODDEN, ROSE †**

Health Education  
1974-1986

**RODGERS, GARY**

Anthropology/Sociology  
1981-2010

**RODGERS, VALERIE**

Business  
1988-2011

**ROMERO, YOLANDA**

Counselor, Professor  
1988-2020

**ROWLEY, DEIRDRE**

Professor, English  
2002-2022

**RUDOLPH, WILLIAM †**

Dean of Vocational Education  
1964-1993

**SAMSON, WALTER †**

History  
1963-1982

**SAMUELS, CARMEN**

Nursing  
1971-1981

**SANDOVAL, LILIA**

Calworks Counseling  
Coordinator, Professor  
1999-2017

**SANTOS, RAFAEL †**

Business  
1975-1999

**SANTISTEVAN, JUDY**

Business, Work Experience  
1999-2012

**SAXE, ELLEN**

Nursing  
1981-1990

**SECHRIST, WILLIAM †**

VP/Bus Svcs/Deputy Supt  
1990-1998

**SEIVERTSON, BRUCE**

Geography  
2004-2012

**SMITH, MARY M. †**

English  
1975-1996

**SMITH, MELVIN †**

Disabled Student Programs  
1990-2003

**SPEER, WILLIAM †**

English  
1961-1987

**SPENCER, TERREL †**

Superintendent/President  
1963-1978

**STANDIFORD, SANDRA**

Counseling, Dean of Admissions  
1967-2003

**STATON, M. ROBIN**

Psychology  
1997-2020

**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

**SULLIVAN, TERRIE**

Professor, Nursing  
2001-2021

**SWANN, MARIE †**

English  
1964-1980

**SWIADON, GLENN**

Professor, French  
2008-2022

**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

**WAINWRIGHT, MARY JO**

History  
2004-2020

**WALKER, JAMES D.**

VP/Academic Services/Deputy  
Superintendent  
1969-1996

**WASSON, HENRY †**

Math/Science  
1962-1994

**WEBSTER, ROBERTA †**

Nursing and Allied Health  
2013-2021

**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, KEVIN**

Political Science  
2005-2018

**WHITE, RAY**

Automotive Technology  
1964-1998

**WILHELM, ROBERT †**

Geography & Political Science  
1970-2003

**WILLIAMS, RICHARD †**

Psychology  
1974-1999

**WILSON, PATRICIA**

English  
1970-1991

**ZAZUETA, CATHY**

Assistant Librarian, Professor  
2001-2020

**ZIELINSKI, DAVID**

Professor, English  
1991-2020

**ZOBELL, SHERRY**

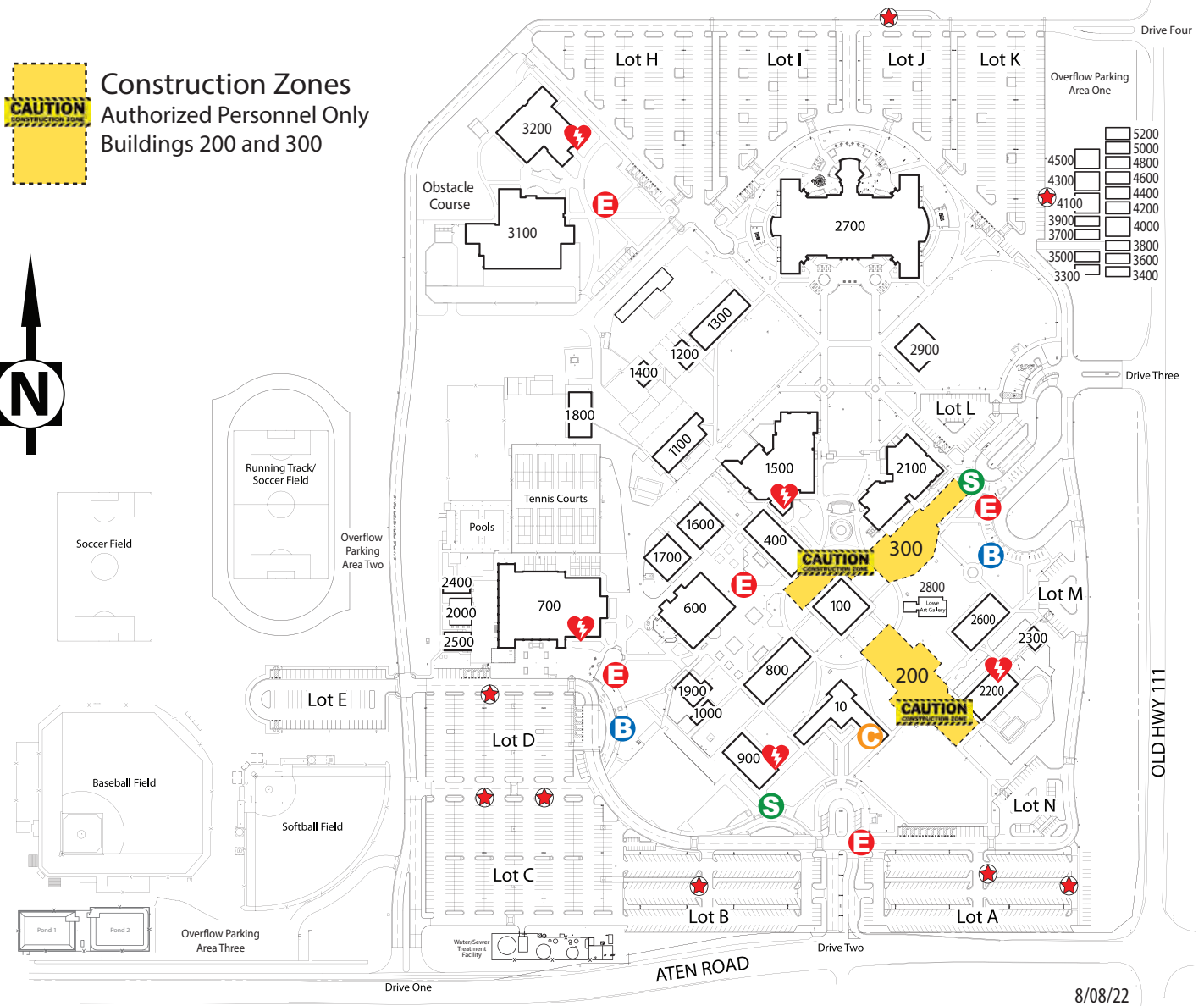
Math  
1998-2009

**ZUMAYA, ELIZABETH †**

CDEV/ECE Programs  
2019-2020

# Imperial Valley College

## Campus Map • Fall 2022



LEGEND					
10	Administration/IVC Foundation Admissions & Records/ Business/Instruction Offices	1200	Industrial Technology	2500	Human Resources
100	Counseling Center	1300	Classroom Building	2600	Reading/Writing/Language & Math Labs
200	Classroom Building	1400	Tool Storage	2700	English/Sciences/Math/Offices
300	Classroom Building	1500	Library Media Center/ Student Health Center	2800	Juanita Salazar Lowe Art Gallery
400	Assessment Center/Classrooms	1600	Career Center/Classrooms	2900	Disability Support Programs & Services
600	College Center/Cafeteria/IVC Kitchen Military & Veterans Success Center	1700	Financial Aid	3100	Career Technical Education Building/ Workforce Development Center
700	Gymnasium	1800	Maintenance/Purchasing/ Receiving	3200	Public Safety Building
800	Classroom Building	1900	Bookstore	3300	Classroom
900	Info Technology I.T. / Reprographics Campus Safety & Parking	2000	Talent Search/ Project Management Office	3400	Classroom
1000	Student Affairs Office	2100	Health Sciences	3500	Classroom - I.C.O.E
1100	Industrial Technology	2200	Preschool	3600	Classroom
		2300	Infant Toddler Center	3700	Classroom
		2400	Upward Bound	3800	Rest rooms
				3900	Classroom
				4000	Classroom
				4100	Classroom
				4200	Classroom
				4300	Classroom
				4400	Classroom
				4500	Classroom
				4600	Classroom
				4800	Classroom
				5000	Classroom
				5200	Classroom

	Parking/Day Pass Machine
	Student Drop Off
	Bus/Transit Drop Off
	Cashier/Student Payments
	Emergency Call Box
	Automated External Defibrillator

# Index

## A

Academic Calendar 7  
Academic Freedom Statement 48  
Academic Renewal 63  
Accounting Technician 94  
Accreditation 2  
Addiction Disorder Studies 96, 277  
Adding Classes 24  
Administration and Faculty 357  
Administration of Justice 98, 278  
Administration of Justice (For Transfer) 100  
Administration of Justice: Law Enforcement 102  
Admission and Registration 16  
Advanced Placement Chart 59  
Agriculture 279  
Agriculture Business (For Transfer) 104  
Agriculture Business Management 106  
Agriculture Plant Science (For Transfer) 108  
Agriculture Plant Science 110  
Air Conditioning and Refrigeration 112, 280  
Allied Health Professions 281  
American Indian Studies 281  
American Sign Language 114, 282  
Anthropology (For Transfer) 116  
Anthropology 283  
Application 16  
Apprenticeship Courses of Instruction 271  
Apprenticeship Training Programs 252  
Apprenticeship-Control Operator 253, 271  
Apprenticeship-Electrician 254, 271  
Apprenticeship-Generation Mechanic 256, 271  
Apprenticeship-Hydro Operator 258, 272  
Apprenticeship-Instrument Technician 259, 272  
Apprenticeship-Meter Technician 260, 272  
Apprenticeship-Power Lineman 262, 273  
Apprenticeship-Relays Technician 264, 273  
Apprenticeship-SCADA/Telecommunications Technician 266, 273  
Apprenticeship-Substation-Electrician 268, 274  
Apprenticeship-Telecommunications Technician 270, 274  
Arabic 283  
Art 283  
Art History (For Transfer) 122  
Associate Degree and Certificate of Achievement Chart 83  
Associate Degree and Certificate of Achievement Programs 97  
Astronomy 285  
Athletics 39, 285  
Attendance and Administrative Withdrawals 64  
Automotive Technology 120, 287

## B

Behavioral Science 123  
Biology 289

Biology (For Transfer) 125  
Board Of Trustees 5  
Building Construction 290  
Building Construction Technology 127  
Business Administration 291  
Business Administration (For Transfer) 129  
Business Administration 2.0 (For Transfer) 131  
Business Administrative Assistant 133  
Business Information Systems 135  
Business Management 137  
Business Office Technician 139

## C

California State University General Education Breadth 141  
CalWORKs Program (CalWORKs) 36  
Campus Map 370  
Campus Safety 72  
Career Technical Education 77  
Certificates of Achievement Programs 77  
Certificates and Associate Degrees Chart 79  
Challenge Process 29  
Changes in the Catalog 51  
Cheating and Plagiarism 52  
Chemistry 293  
Chemistry (For Transfer) 144  
Chicana/o Studies 146, 294  
Child Development 148, 294  
Class Attendance 52  
College Policies, Rules and Regulations 48  
College Mission 11  
Communication Studies 297  
Communication Studies (For Transfer) 152  
Computer Information Technology 154  
Computer Information Systems 301  
Computer Networking 156  
Computer Science 300  
Computer Science (For Transfer) 157  
Cooperative Agencies Resources for Education (CARE) 34  
Correctional Science 159, 300  
Correctional Science: Corrections Officer 161  
Counseling Services 33  
Counseling 301  
Courseload Limits 51  
Courses of Instruction 276  
Credit by Examination 57  
Credit for College Level Examination Program (CLEP) 60  
Credit for Correspondence and Extension Courses 59  
Credit for Military Service 56  
Credit for Upper Division Course Work 59  
Credit from Foreign Institutions 63  
Cross Enrollment Program (CSU/UC) 91  
Cybersecurity 162

## D

Degrees 12  
Diesel Farm Machinery and Heavy Equipment 164  
Digital Design and Production 165  
Disabled Student Programs and Services (DSPS) 34, 302  
Disclaimer 1  
Distance Education 39  
District Administration 358  
Dropping Classes 24

## E

Early Childhood Education (For Transfer) 167  
Economics 302  
Economics (For Transfer) 169  
Education 302  
Educational Talent Search 35  
Electrical Technology 171  
Electrical Trades 174, 302  
Electrical Wiring 303  
Elementary Teacher Education for Transfer 176  
Electronics 304  
Eligibility 18  
Emergency Medical Services 178  
Emergency Medical Technician 304  
Emergency Medical Technician - Paramedic 304  
Emeritus Faculty 365  
Engineering 306  
English 306  
English (For Transfer) 180  
English as a Second Language 308  
Enrollment Fees 26  
Environmental Science 310  
Exercise Science 182/310  
Extended Opportunity Program and Services (EOPS) 36

## F

Faculty 359  
Family Educational Rights and Privacy (FERPA) 49  
Fees and Refunds 25  
Financial Aid 32  
Film Studies 313  
Fire Academy Appendix 356  
Fire Science 313  
Fire Technology 185  
Firefighter I 187  
Foreign Transcripts 63  
French 188, 316

## G

General Education 76  
General Science 190  
Geography 316  
Geography (For Transfer) 192  
Geology 317  
Geology (For Transfer) 194  
Global Studies 317  
Global Studies for Transfer 196  
Grading System 53  
Graduation Requirements 80

## H

Health Education 317  
History 318  
History (For Transfer) 198  
History of the College 8  
Humanities 200, 319

## I

Informal Resolution 67  
Industrial Automation Technology 202  
Institutional Student Learning Outcomes 12  
Intersegmental General Education  
Transfer Curriculum (IGETC) 88, 204

## K

Kinesiology (For Transfer) 206

## L

Learning and Tutoring Services Centers 45

## M

Mathematics 319  
Mathematics (For Transfer) 208  
Mathematics Prerequisite Chart 342  
Medical Assistant 210, 322  
Microsoft Office 211  
Military and Veterans Success Center (MVSC) 36  
Music 323  
Music (For Transfer) 212

## **N**

Nondiscrimination and Sexual Harassment Policy 48  
Non-Credit Education 40  
Nursing Appendix 344  
Nursing-Associate Degree (R.N.) 214, 326  
Nursing-Vocational (V.N.) 216, 328  
Nutrition and Dietetics (For Transfer) 219

## **O**

Online Services and Distance Education 38  
Open Enrollment 52  
Other Fees/Charges 27

## **P**

Parking 72  
Peace Officer Standards and Training (POST) 329  
Peace Officer Standards and Training (POST) Appendix 351  
Pharmacy Technician 330  
Philosophy 331  
Physical Science 331  
Physics 331  
Physics (For Transfer) 221  
Political Science 331  
Political Science (For Transfer) 223  
Pre-Engineering 225  
Pre-Nursing and Allied Health 227  
Prerequisite, Corequisite, Advisories On  
Recommended Preparation and Limitations  
On Enrollment 29  
President's Message 4  
Proficiency Enrollment 52  
Psychology 332  
Psychology (For Transfer) 229  
Public Health Science (For Transfer) 231

## **R**

Reading 333  
Refund Policy 27  
Registration 21  
Regulations 31  
Religious Studies 334  
Renewable Energy 334  
Repeating Courses 25  
Residency 17  
Retail Management 233

## **S**

Scholarships 33  
Scholastic Honors 55  
Social Science 234  
Social Work 334  
Sociology 335  
Sociology (For Transfer) 236  
Spanish 335  
Spanish (For Transfer) 238  
Spencer Library and Media Center 43  
Student Activities 40  
Student Conduct 65  
Student Email 38  
Student Health Services 42  
Student Rights and Grievances Policy 67  
Studio Arts (For Transfer) 240  
Summer Session 276

## **T**

Table of Contents 3  
Theatre Arts 336  
Transfer Center 34  
Transfer Credit 55  
Transfer Planning 76  
Tutoring Centers for Students 45  
Types of Courses and Programs 11

## **U**

University Studies 242  
Upward Bound 35

## **V**

Veterans Services 36  
Voluntary Withdrawal 64

## **W**

Wait Lists 23  
Water Treatment Systems Technology 247, 337  
Welding 337  
Welding Technology 249  
Western Undergraduate Exchange (WUE) 83  
Work Experience 40, 338

This Page Intentionally Left Blank



**IMPERIAL VALLEY COLLEGE**  
380 E. Aten Road • Imperial, CA 92251  
[www.imperial.edu](http://www.imperial.edu)

Follow us!

