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### ADDICTION DISORDER STUDIES

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

The Addiction Disorder Studies program is designed to prepare students to serve as professionals in the growing career field of chemical and behavioral addiction counseling. Imperial Valley College is an accredited CAADE (California Association for Alcohol/ Drug Educators) program. The Alcohol and Drug Studies major and certificate meet state requirements. Students completing these programs can take the CATC examination and obtain the California Addiction Treatment Counselor Credential. This credential will help students obtain jobs in social service agencies, treatment programs, recovery homes, schools, DEA, and law enforcement. This program prepares students for transfer to institutions providing higher degrees with the social service majors.

#### **PROGRAM LEARNING OUTCOMES**

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

#### ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

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

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

#### **CAREER OPPORTUNITIES**

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

· Mental Health Counselor

Psychologists

Social Workers

• Registered Nurses

- · Alcohol/Drug Studies Advisor
- Drug Abuse Counselor
- Health Education Instructor
- Community College Instructor
- Alcohol/Drug Studies Technician

- · Marriage and Family Therapists
- Recovery Center Staff Member/Director • Outpatient Program Staff Member • Substance Abuse and Behavioral Counselors

• Teacher - All Levels

· Physicians/Surgeons

Occupational Therapists

Rehabilitation Counselors

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

## **ADDICTION DISORDER STUDIES**

#### **ASSOCIATE DEGREE PROGRAM**

#### **ADDICTION DISORDER STUDIES MAJOR – A.S. DEGREE**

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

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

Required for	the major (30.0 un	its)	
ADS	101	Alcoholism: Intervention, Treatment, and Recovery	3.0
ADS	110	Physiological Effects of Alcohol and Drugs	3.0
ADS/PSY	120	Introduction to Counseling	3.0
ADS/PSY	130	Group Leadership and Group Process	3.0
ADS	200	Family counseling Approaches to Alcohol and Drug Abuse	3.0
ADS/PSY	210	Crisis Intervention and Referral Techniques	3.0
ADS/PSY	220	Practicum	3.0
ADS/PSY	221	Practicum	3.0
ADS	240	Ethics and Legal Standards in Alcohol Counseling	3.0
ADS	251	Dual Diagnosis	3.0

#### II. Minimum of six (6.0) units selected from:

ADS/SOC	150	Sociology of Minority Groups (3.0)
ADS	176	Sex and Gambling Addiction (1.0)
ADS	177	Anger Management (1.0)
ADS	178	Life Skills (1.0)
ADS	230	Alcohol and Drug Prevention and Education (3.0)
PSY	101	Introduction to Psychology (3.0)
PSY	144	The Psychology of Interpersonal Relationships (3.0)
PSY	204	Developmental Psychology: Conception to Death (3.0)
PSY	208	Abnormal Psychology (3.0)
SW	220	Introduction to Social Work (3.0)
SOC	101	Introduction to Sociology (3.0)

**Total Major Units** 36.0

#### **CERTIFICATE PROGRAM**

#### ADDICTION DISORDER STUDIES CERTIFICATE

Thirty-six (36.0) units required for the certificate.

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

Required for	the major (30.0 ur	nits)	
ADS	101	Alcoholism: Intervention, Treatment, and Recovery	3.0
ADS	110	Physiological Effects of Alcohol and Drugs	3.0
ADS/PSY	120	Introduction to Counseling	3.0
ADS/PSY	130	Group Leadership and Group Process	3.0
ADS	200	Family counseling Approaches to Alcohol and Drug Abuse	3.0
ADS/PSY	210	Crisis Intervention and Referral Techniques	3.0
ADS/PSY	220	Practicum	3.0
ADS/PSY	221	Practicum	3.0
ADS	240	Ethics and Legal Standards in Alcohol Counseling	3.0
ADS	251	Dual Diagnosis	3.0

#### II. Minii

į	nimum of	six (6.0) units select	ted from:
	ADS/SOC	150	Sociology of Minority Groups (3.0)
	ADS	176	Sex and Gambling Addiction (1.0)
	ADS	177	Anger Management (1.0)
	ADS	178	Life Skills (1.0)
	ADS	230	Alcohol and Drug Prevention and Education (3.0)
	PSY	101	Introduction to Psychology (3.0)
	PSY	144	The Psychology of Interpersonal Relationships (3.0)
	PSY	204	Developmental Psychology: Conception to Death (3.0)
	PSY	208	Abnormal Psychology (3.0)
	SW	220	Introduction to Social Work (3.0)
	SOC	101	Introduction to Sociology (3.0)

**Total Certificate Units** 36.0

6.0

## **ADMINISTRATION OF JUSTICE**

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### DESCRIPTION

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

#### **PROGRAM LEARNING OUTCOMES**

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

#### ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

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

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

#### **CAREER OPPORTUNITIES**

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

- Police Officer
- Industrial Security Officer
- Deputy Sheriff
- Evidence Technician
- Animal Control
- Computer
- Forensics
- Highway Patrol Officer
- Alcoholism Counselor
- Police Clerk
- FBI Agent
- Accident Investigator
- Polygraph Operator

- Forest Ranger
- Customs Agent
- Investigator Trainer
- Drug Enforcement
- Insurance Investigator
- Code Enforcement
- Border Patrol AgentCriminal Investigator
- Legal Secretary
- Legal SecretaryFingerprint 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
- Officer Agent Drug Abuse
- Corrections Officer

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu – CSU System Information

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

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

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

#### FINANCIAL AID

## **ADMINISTRATION OF JUSTICE**

#### **ASSOCIATE DEGREE PROGRAM**

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

Twenty-four (24.0) units required for the major.

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

#### I. Required courses for the major (18.0 units)

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

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

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

Total Major Units 24.0

#### **CERTIFICATE PROGRAM**

#### **ADMINISTRATION OF JUSTICE CERTIFICATE**

Twenty-two (22.0) units required for the certificate.

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

#### I. Required courses for the certificate (22.0)

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

Total Certificate Units 22.0

## ADMINISTRATION OF JUSTICE (For Transfer)

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

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

The Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

#### PROGRAM LEARNING OUTCOMES

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

#### ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

#### **CAREER OPPORTUNITIES**

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

- Police Officer
- Industrial Security Officer
- Deputy Sheriff
- Evidence Technician
- Animal Control
- Computer
- Forensics
- · Highway Patrol Officer
- · Alcoholism Counselor
- Police Clerk
- FBI Agent
- · Accident Investigator
- Polygraph Operator

- Forest Ranger
- Customs Agent
- Investigator Trainer
- Drug Enforcement
- Insurance Investigator
- Code Enforcement
- Border Patrol Agent
- Criminal Investigator
- Legal Secretary
- Fingerprint Classifier Store Detective
- Security Specialist
- Matron

- Police Dispatcher
- Warden
- Park Ranger
- Correctional Counselor
- Law
- Paralegal
- Probation Officer
- Parole Agent
- Counselor
- Private Detective
- Jailer
- Officer Agent Drug Abuse
- Corrections Officer

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

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

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

#### **FINANCIAL AID**

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

financial-aid-and-scholarships/

## **ADMINISTRATION OF JUSTICE (For Transfer)**

#### **ASSOCIATE DEGREE PROGRAM**

#### **ADMINISTRATION OF JUSTICE**

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

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

#### REQUIREMENTS FOR THE DEGREE

**Total Maximum Units:** 

- 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.

III.	Eighteen	to Nineteen (1	18-19) units required for the major	
	A. Requ	uired for the N	Лаjor (6) units	
	AJ	100	Introduction to the Administration of Justice	3.0
	AJ	102	Concepts of Criminal Law	3.0
	B. Sele	ct six (6) units	from:	6.0
	AJ	104	Legal Aspects of Evidence (3.0)	
	AJ	106	Principles & Procedures of the Justice System (3.0)	
	AJ	110	Law Enforcement Community Relations (3.0)	
	AJ	222	Criminal Investigation (3.0)	
	AJ	223	Juvenile Control (3.0)	
	CSI	100	Introduction to Correctional Systems (3.0)	
	C. Sele	ct six to seven	(6.0-7.0) units from	6.0-7.0
	MATH	119	Elementary Statistics (4.0)	
	PSY	101	Introduction to Psychology (3.0)	
	SOC	101	Introduction to Sociology (3.0)	
Total	Major Units			18.0-19.0
CSU-GE or IGETC Pattern			37.0-39.0	
Elect	Electives (as needed to reach 60 CSU transferable units)			

60.0

## AGRICULTURE BUSINESS (For Transfer)

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

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

The Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

#### **PROGRAM LEARNING OUTCOMES**

- 1. Demonstrate understanding of market trends and influential factors, display critical thinking skills related to production and marketing development, data interpretation as applied to 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 a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

#### **CAREER OPPORTUNITIES**

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

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

- Accountant
- Appraiser
- Bookkeeper
- Business Manager
- Business Owner • Commodity Broker
- Community Development
- Consultant
- Elevator Management
- 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

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

## **AGRICULTURE BUSINESS (For Transfer)**

#### **ASSOCIATE DEGREE PROGRAM**

#### **AGRICULTURE BUSINESS**

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

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

#### REQUIREMENTS FOR THE DEGREE

- I. Units/GPA Must complete a maximum of 60 CSU-transferable semester units with a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. NOTE: While a minimum of 2.0 is required for admission, some institutions and majors may require a higher GPA. Please consult with a counselor for more information.
- II. General Education Must complete one of the following general education transfer patterns:
   A. California State University General Education Breadth Pattern (CSU GE-B) 39 units minimum
   B. Intersegmental General Education Transfer Curriculum (IGETC) 37 units minimum
- III. Twenty-two to Thirty (22-30) units required for the major

#### Required for the Major (13-14 units)

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

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

9.0-10.0

AG	134	Agricultural Business Organization (3.0)

AG 136 Agricultural Sales, Communication, and Service Management (3.0)
AG 138 Computer Applications in Agriculture (3.0)

AG 140 Principles of Plant Science (4.0)

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

Any course not selected from List A above

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

Total Major Units 22.0-30.0 CSU-GE or IGETC Pattern 37.0-39.0

Electives (as needed to reach 60 CSU transferable units)

Total Maximum Units: 60.0

## AGRICULTURE BUSINESS MANAGEMENT

#### **DEGREES, CERTIFICATES AND AWARDS**

Certificate of Achievement

#### **DESCRIPTION**

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

#### PROGRAM LEARNING OUTCOMES

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

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

#### **CAREER OPPORTUNITIES**

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

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

- Accountant
- Appraiser
- Bookkeeper
- Business Manager
- Business Owner
- Commodity Broker
- Community Development
- Consultant
- Elevator Management
- 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

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

#### **FINANCIAL AID**

## **AGRICULTURE BUSINESS MANAGEMENT**

#### **CERTIFICATE PROGRAM**

#### **AGRICULTURE BUSINESS MANAGEMENT**

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

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

#### I. Required courses for the certificate (15.0)

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

#### II. Acceptable courses for the certificate (select one)

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

Total Certificate Units 18.0-19.0

## AGRICULTURE PLANT SCIENCE (For Transfer)

#### **DEGREES. CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

The Associate in Science in Agriculture Plant Science for Transfer Degree provides for the application of the various principles of the biological and physical sciences in agriculture. The course offerings are fundamental and broad in scope so that students can transfer and prepare to seek employment. Careers may include Agricultural Products Inspector, Crop Consultant, Soil Surveyor, Farm Manager/Operator, Land-Use Planner, Plant Breeder, and Organic Certification Specialist.

The Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

• Organic Certification Specialist

• Soil Conservation Specialist

• Water Quality Specialist

• Youth Development Specialist

• Waste Management Specialist

• Plant Breeder

• Research Technician

· Sales Representative

Seed Production

#### **PROGRAM LEARNING OUTCOMES**

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

#### **ASSOCIATE DEGREE PROGRAM (For Transfer)**

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

#### CAREER OPPORTUNITIES

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

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

• 4-H Association Youth Specialist

• Genetic Engineering Scientist

Land Reclamation Specialist

International Agronomist

Crop Scout/Consultant

• Education Specialist

• Farming Operation

· Land-Use Planner

Farm Manager

- Agribusiness Representative
- Agricultural Products Inspector
- Agronomist
- Chemical Fertilizer Sales
- College Instructor
- Cooperative Extension Agent
- · Cooperative Manager
- Crop Consultant
- Crop Production

- Agronomic Production Manager Conservation/Environmental Technician

- County Agricultural Extension Agents High School Agriculture Teacher
- Plant Geneticist Post secondary Teacher Seed, Chemical and Fertilizer Consultant
- · Soil Surveyor Vocational Agriculture Teacher

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

## **AGRICULTURE PLANT SCIENCE (For Transfer)**

#### **ASSOCIATE DEGREE PROGRAM**

#### **AGRICULTURE PLANT SCIENCE**

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

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

#### REQUIREMENTS FOR THE DEGREE

AG

230

- I. Units/GPA Must complete a maximum of 60 CSU-transferable semester units with a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. NOTE: While a minimum of 2.0 is required for admission, some institutions and majors may require a higher GPA. Please consult with a counselor for more information.
- II. General Education Must complete one of the following general education transfer patterns:
   A. California State University General Education Breadth Pattern (CSU GE-B) 39 units minimum
   B. Intersegmental General Education Transfer Curriculum (IGETC) 37 units minimum
- III. Twenty-one to Twenty-eight (21-28) units required for the major

rwenty-o	ne to Twenty	-eight (21-28) units required for the major	
Require	ed for the Ma	ijor (21-22 units)	
AG	120	Soil Science	3.0
CHEM	100	Introduction to Chemistry	4.0
OR			
CHEM	200	General Inorganic Chemistry I	5.0
AG	130	Agricultural Economics	3.0
OR			
ECON	101	Introduction to Macro Economics	3.0
MATH	119	Elementary Statistics	4.0
AG	140	Principles of Plant Science	4.0
AG	245	Plant Propagation/Production	3.0
Select (	(0-6 units)		0.0-6.0
AG	170	Irrigation and Drainage (3.0)	
AG	220	Irrigation and Drainage (3.0)	

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

Fertilizer and Soil Amendments (3.0)

## **AGRICULTURE PLANT SCIENCE**

#### **DEGREES, CERTIFICATES AND AWARDS**

Certificate of Achievement

#### **DESCRIPTION**

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

• Organic Certification Specialist

Soil Conservation Specialist

• Youth Development Specialist

• Waste Management Specialist

Water Quality Specialist

• Plant Breeder

• Research Technician

· Sales Representative

Seed Production

#### PROGRAM LEARNING OUTCOMES

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

#### **CERTIFICATE OF ACHIEVEMENT PROGRAMS**

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

#### **CAREER OPPORTUNITIES**

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

• 4-H Association Youth Specialist

• Genetic Engineering Scientist

• International Agronomist

· Land Reclamation Specialist

Crop Scout/Consultant

Education Specialist

• Farming Operation

· Land-Use Planner

• Farm Manager

- Agribusiness Representative
- Agricultural Products Inspector
- Agronomist
- Chemical Fertilizer Sales
- College Instructor
- Cooperative Extension Agent
- Cooperative Manager
- Crop Consultant
- Crop Production

- Agronomic Production Manager Conservation/Environmental Technician
- County Agricultural Extension Agents High School Agriculture Teacher
- Plant Geneticist Post secondary Teacher Seed, Chemical and Fertilizer Consultant
- Soil Surveyor Vocational Agriculture Teacher

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

## **AGRICULTURE PLANT SCIENCE**

#### **CERTIFICATE PROGRAM**

#### **AGRICULTURE PLANT SCIENCE**

Nineteen (19.0) units required for the certificate.

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

#### I. Required courses for the certificate (10.0)

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

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

))
(3.0)
(

Total Major Units 19.0

## AIR CONDITIONING AND REFRIGERATION TECHNOLOGY

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

Air Conditioning and Refrigeration Technology (ACR) is a constantly changing, self gratifying program designed to satisfy the mechanically oriented person. The Air Conditioning and Refrigeration major and certificate are designed to provide instruction in manipulative skills, technical knowledge, and related trade information which will prepare the student with entry level skills for employment in the rapidly growing service industry of Air Conditioning and Refrigeration.



#### PROGRAM LEARNING OUTCOMES

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

#### **ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS**

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

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

#### CAREER OPPORTUNITIES

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

- ACR Contractor
- Dispatcher
- Service Manager

- ACR Mechanic
- Electrician
- Service Technician

- ACR Installer
- Manufacturers Service Rep
- Sheet Metal Technician
- ACR and Heating Engineer Sales Engineer
- **Gainful Employment:** Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: http://www.imperial.edu/courses-and-programs/programs-of-study/

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu – CSU System Information

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

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

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

#### **FINANCIAL AID**

## AIR CONDITIONING AND REFRIGERATION TECHNOLOGY

#### **ASSOCIATE DEGREE PROGRAM**

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

Thirty (30.0) units required for the major.

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

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

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

Total Major Units 30.0

#### **CERTIFICATE PROGRAM**

#### AIR CONDITIONING AND REFRIGERATION TECHNOLOGY CERTIFICATE

Seventeen (17.0) units required for the certificate.

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

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

ACR	101	Air Conditioning & Refrigeration Systems	3.0
ACR	102	Residential Air Conditioning Systems	3.0
ACR	103	Air Conditioning Electrical Circuits and Controls	3.0
ACR	104	Air Condition Heating Systems	3.0
ACR	105	Heat Load Calculation and Measurements	2.0
ACR	106	Air Conditioning Ventilation Duct Systems	3.0

Total Certificate Units 17.0

## **ALTERNATIVE ENERGY - SOLAR TECHNOLOGY**

#### **DEGREES. CERTIFICATES AND AWARDS**

Certificate of Achievement

#### **DESCRIPTION**

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



#### **PROGRAM LEARNING OUTCOMES**

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

#### **CERTIFICATE OF ACHIEVEMENT PROGRAM**

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

#### **FINANCIAL AID**

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

#### **CAREER OPPORTUNITIES**

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

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

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

## **ALTERNATIVE ENERGY - SOLAR TECHNOLOGY**

#### **CERTIFICATE PROGRAM**

#### **ALTERNATIVE ENERGY-SOLAR TECHNOLOGY**

Twenty-two (22.0) units required for the certificate.

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

#### Required courses for the certificate.

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

**Total Certificate Units** 22.0

## ANTHROPOLOGY (For Transfer)

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

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

The Associate in Arts for Transfer (AA-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

# ANTHROPOLOG THRONGH FOSSILS

#### PROGRAM LEARNING OUTCOMES

- 1. Global Cultural Diversity by recognizing the various social institutions, linguistic diversity, the ways societies have adapted to different environments, and modern 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 scientificevidence of environmental adaptation and the study of genetics. (Biological/Physical Anthropology)
- 3. Cultural change and development by comparing and contrasting the different stages of cultural development at various geographic regions of the world and the causal factors that lead towards civilizations, monumental architecture, writing, and social stratification. (Archaeology)
- 4. Comparing and contrasting the Indigenous Cultures of North America, their prehistory, language and social diversity, mythology, and adaptation to a diverse geography and environment. (American Indian

#### ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

#### **CAREER OPPORTUNITIES**

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

- Archaeologist
- Linguist
- Museum Curator
- Health Researcher
- Redevelopment Specialist
- Industrial Consultant
- Artifacts Conservator
- · Resource Manager
- Ethnic Relations Specialist

Medical Anthropologist

• Museum Program Director

Forensic Anthropologist

Primatologist

Zoo Director

Folklorist

• Museum Registrar

- Population Analyst
- Urban Planner
- Exhibit Designer
- Expedition Guide
- Film Ethnographer
- Social Gerontologist
- · College Faculty Member
- Environmental Impact Analyst Bilingual Education Consultant

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

## **ANTHROPOLOGY (For Transfer)**

#### ASSOCIATE DEGREE PROGRAM

#### **ANTHROPOLOGY**

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

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

#### REQUIREMENTS FOR THE DEGREE

- 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	3 units)
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ANTH	100	Physical Anthropology	3.0
ANTH	102	Cultural Anthropology	3.0
ANTH	120	Introduction to Archaeology	3.0
MATH	119	Elementary Statistics	4.0
B. Select one (3-4) units:			3.0-4.0

GFOL 100 General Geology (4.0)

Research Methods in Psychology (3.0) **PSY** 212

C. Select one (3) units: 3.0

Any course from List B not already used.

AIS/ANTH 106 Indians of North America (3.0) AIS/ANTH 108 Indians of the Southwest (3.0) HIST/LAS 130 Early Latin America (3.0) HIST/LAS 131 Modern Latin America (3.0) HIST/LAS 132 History of Mexico (3.0) East Asian History (3.0) HIST 140 HIST 150 Survey of African History (3.0) HIST 160 Middle East from 600 (3.0) HIST 220 Women in American History (3.0) HIST/LAS 225 Mexican American History (3.0) 100 Religions of the Modern World (3.0) **RELS** 

**Total Major Units** 19.0-20.0 CSU-GE or IGETC Pattern 37.0-39.0 Electives (as needed to reach 60 CSU transferable units)

**Total Maximum Units:** 60.0

### **AUTOMOTIVE TECHNOLOGY**

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### DESCRIPTION

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



#### **PROGRAM LEARNING OUTCOMES**

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

#### **ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS**

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

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

#### **CAREER OPPORTUNITIES**

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

- Tune-up Technician
- Electrical Specialist
- Industrial Engineer

- Brake Specialist
- Service Writer
- Automotive Engineer

- General Technician
- Transmission Specialist
- Electrical Engineer

- Alignment Specialist Service Management
- · Quick Service Tech
- Industrial Technology
- Engine Performance/Drivability Specialist

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

## **AUTOMOTIVE TECHNOLOGY**

#### **ASSOCIATE DEGREE PROGRAM**

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

Thirty-nine (39.0) units required for the major.

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

#### I. Required courses for the major (39.0 units)

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

Total Major Units 39.0

#### **CERTIFICATE PROGRAM**

#### **AUTOMOTIVE TECHNOLOGY CERTIFICATE**

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

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

#### I. Required courses for the certificate (39.0)

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

Total Certificate Units 39.0

## **BRAKES, SUSPENSION AND STEERING** SPECIALIZATION (Auto Technology)

#### **DEGREES, CERTIFICATES AND AWARDS**

Certificate of Achievement

#### **DESCRIPTION**

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

#### PROGRAM LEARNING OUTCOMES

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

#### **CERTIFICATE OF ACHIEVEMENT PROGRAM**

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

#### **FINANCIAL AID**

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

#### **CAREER OPPORTUNITIES**

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

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

## **BRAKES, SUSPENSION AND STEERING SPECIALIZATION (Auto Technology)**

#### **CERTIFICATE PROGRAM**

#### **AUTOMOTIVE BRAKES, SUSPENSION AND STEERING SPECIALIZATION**

Twenty (20.0) units required for the certificate.

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

#### Required courses for the certificate.

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

**Total Certificate Units** 20.0

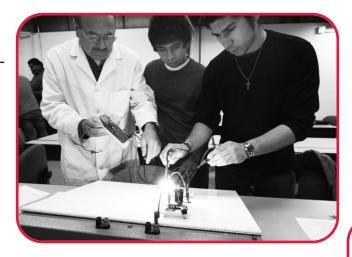
## **ELECTRICAL/ELECTRONIC AND AIR CONDITIONING SPECIALIZATION (Auto Technology)**

#### **DEGREES, CERTIFICATES AND AWARDS**

Certificate of Achievement

#### **DESCRIPTION**

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



#### **PROGRAM LEARNING OUTCOMES**

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

#### **CERTIFICATE OF ACHIEVEMENT PROGRAM**

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

#### **CAREER OPPORTUNITIES**

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

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

#### **FINANCIAL AID**

## **ELECTRICAL/ELECTRONIC AND AIR CONDITIONING SPECIALIZATION (Auto Technology)**

#### **CERTIFICATE PROGRAM**

#### **ELECTRICAL/ELECTRONIC AND AIR CONDITIONING SPECIALIZATION**

Eighteen (18.0) units required for the certificate.

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

#### I. Required courses for the certificate.

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

Total Certificate Units 18.0

## ENGINE PERFORMANCE AND DRIVABILITY SPECIALIZATION

(Auto Technology)

#### **DEGREES, CERTIFICATES AND AWARDS**

Certificate of Achievement

#### **DESCRIPTION**

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



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

#### **CERTIFICATE OF ACHIEVEMENT PROGRAM**

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

#### **CAREER OPPORTUNITIES**

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

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

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



#### **FINANCIAL AID**

## **ENGINE PERFORMANCE AND DRIVABILITY SPECIALIZATION** (Auto Technology)

#### **CERTIFICATE PROGRAM**

#### **ENGINE PERFORMANCE AND DRIVABILITY SPECIALIZATION**

Twenty-two (22.0) units required for the certificate.

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

#### Required courses for the certificate.

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

**Total Certificate Units** 22.0

## **ENGINE REPAIR AND MACHINIST SPECIALIZATION** (Auto Technology)

#### **DEGREES, CERTIFICATES AND AWARDS**

Certificate of Achievement

#### **DESCRIPTION**

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



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

#### **CERTIFICATE OF ACHIEVEMENT PROGRAM**

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

#### **CAREER OPPORTUNITIES**

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

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#### **FINANCIAL AID**

## **ENGINE REPAIR AND MACHINIST SPECIALIZATION** (Auto Technology)

#### **CERTIFICATE PROGRAM**

#### **ENGINE REPAIR AND MACHINIST SPECIALIZATION**

Twenty-two (22.0) units required for the certificate.

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

#### Required courses for the certificate.

Α	ΛUT	075	Basic Shop Skills	3.0
Α	ΛUT	110	Engine Technology	4.0
Α	ΛUT	120	Automotive Machine Shop	4.0
Α	ΛUT	122	High Performance Engine Blueprinting I	4.0
V	VELD	100	Welding Technology	5.0
V	VE	201	Employment Readiness	1.0
٧	VE	220	Internship	1.0

**Total Certificate Units** 22.0

## TRANSMISSION AND POWER TRAIN SPECIALIZATION (Auto Technology)

#### **DEGREES, CERTIFICATES AND AWARDS**

Certificate of Achievement

#### **DESCRIPTION**

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

#### **PROGRAM LEARNING OUTCOMES**

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

#### **CERTIFICATE OF ACHIEVEMENT PROGRAM**

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

#### **FINANCIAL AID**

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

#### **CAREER OPPORTUNITIES**

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

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## TRANSMISSION AND POWER TRAIN SPECIALIZATION (Auto Technology)

#### **CERTIFICATE PROGRAM**

#### TRANSMISSION AND POWER TRAIN SPECIALIZATION

Twenty (20.0) units required for the certificate.

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

#### I. Required courses for the certificate.

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

Total Certificate Units 20.0

## BEHAVIORAL SCIENCE

#### **DEGREES, CERTIFICATES AND AWARDS**

Associate in Arts Degree (A.A.)

#### **DESCRIPTION**

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

• Interviewer/Researcher

Social Program Planner

Law Enforcement Officer

Mental Health Counselor

Market Researcher

#### **PROGRAM LEARNING OUTCOMES**

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

#### ASSOCIATE DEGREE PROGRAM

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

#### **CAREER OPPORTUNITIES**

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

• Public Relations Consultant

- All Human Service Careers
- Employment Counselor Lawver
- Sociologist Social Worker
- Youth Counselor Criminologist
- Public Opinion Analyst
- Social Scientist
- Gerontologist • Child Care Program

Statistician

- Developer
- Recreation Program Director Urban and Regional Planner
- Parole, Probation or Correctional Officer Community Organization Worker
- University and College Teachers

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#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

#### **FINANCIAL AID**

## BEHAVIORAL SCIENCE

#### ASSOCIATE DEGREE PROGRAM

101

Learning

PSY

PSY/CDEV 104

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

Required courses for the major (18.0 units)

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

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

Anthropology and Biology				
ANTH	100	Physical Anthropology		
ANTH	102	Cultural Anthropology		
BIOL	100	Principles of Biological Science		
BIOL	122	General Zoology II		
Psycholo	gy and	Child Development		
CDEV	103	Child, Family and Community		
MATH	119	Elementary Statistics		
<u>OR</u>				
PSY	214	Statistical Methods in Behavioral Sciences (4.0)		

Introduction to Psychology

Child Growth and Development

PSY/ADS	120	Introduction to Counseling	3.0
PSY	142	Psychology of Adjustment	3.0
PSY	144	The Psychology of Interpersonal Relationships	3.0
PSY	146	Psychology of Human Sexuality	3.0
PSY	200	Biological Psychology	3.0
PSY	202	Learning	3.0

**PSY** 204 Developmental Psychology: Conception to Death 3.0 PSY/SOC 206 Social Psychology 3.0 **PSY** Abnormal Psychology 208 3.0 **PSY** 212 Research Methods in Psychology 3.0 PSY/ADS 220/221 Practicum 3.0

**Sociology and Social Work** SOC 101 Introduction to Sociology 3.0 SOC 102 **Contemporary Social Problems** 3.0

SOC 110 Marriage and the Family 3.0 SOC/ADS 150 Sociology of Minority Groups 3.0 SOC/PSY 206 Social Psychology 3.0 Criminology (Formerly SOC/AJ 124) SOC/AJ 224 3.0 Introduction to Social Work SW 220 3.0

**Total Major Units** 18.0

3.0 3.0 4.0 4.0

3.0 4.0

3.0

3.0

### **BIOLOGY (For Transfer)**

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

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

The Associate in Arts for Transfer (AA-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.



#### PROGRAM LEARNING OUTCOMES

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

#### **ASSOCIATE DEGREE PROGRAM (For Transfer)**

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

#### **CAREER OPPORTUNITIES**

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

Nutritionist

Pathologist

Physiologist

Paleontologist

Pharmacologist

• Science Teacher

Science Writer

Zoologist

- 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

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

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

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

#### **FINANCIAL AID**

### **BIOLOGY (For Transfer)**

#### **ASSOCIATE DEGREE PROGRAM**

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

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

#### REQUIREMENTS FOR THE DEGREE

**Total Maximum Units:** 

- Units/GPA Must complete a maximum of 60 CSU-transferable semester units with a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. NOTE: While a minimum of 2.0 is required for admission, some institutions and majors may require a higher GPA. Please consult with a counselor for more information.
- II. **General Education** – Must complete one of the following general education transfer patterns: A. California State University General Education Breadth Pattern (CSU GE-B) for STEM – 33 units minimum B. Intersegmental General Education Transfer Curriculum (IGETC) for STEM – 31 units minimum
- III. Thirty (30) units required for the major

Require	ed for the I	Major (13 units)		
BIOL	180	General Biology: Molecules, Cells, and Genetics	4.0	
BIOL	182	General Biology: Organismal Biology	4.0	
CHEM	200	General Inorganic Chemistry I	5.0	
CHEM	202	General Inorganic Chemistry II	5.0	
MATH	192	Analytic Geometry and Calculus I	4.0	
PHYS	200	General Physics I	4.0	
PHYS	202	General Physics II	4.0	
Total Major Units	5		30.0	
CSU-GE or IGETC for STEM Pattern				
Electives (as needed to reach 60 CSU transferable units)				

60.0

### BUILDING CONSTRUCTION TECHNOLOGY

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### DESCRIPTION

The Building Construction Technology Associate in Science degree along with the certificate and specializations in Carpentry and Concrete Masonry, are designed to provide instruction in manipulative skills, technical knowledge, and related trade information, which will prepare the student for employment in the building construction industry. The course work for the associate degree also emphasizes subject areas that are significant to the construction worker such as engineering fundamentals, construction management, business administration, humanities and social sciences, and the development of analytical and communication skills through the general education requirements.

#### **PROGRAM LEARNING OUTCOMES**

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

#### ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

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

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

#### **CAREER OPPORTUNITIES**

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

- Construction Manager
- Construction Estimator
- Civil Engineer

- General Contractor
- Technical Salesperson
- Structural Engineer

- Sub-Contractor · Project Manager
- Construction Consultant Architect
- Environmental Engineer
- Construction Scheduler or Planner Forensic Construction Specialist

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



#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

### **BUILDING CONSTRUCTION TECHNOLOGY**

#### **ASSOCIATE DEGREE PROGRAM**

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

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

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

#### I. Required for the major (25.0 units)

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

Total Major Units 25.0

### **CERTIFICATE PROGRAM**

#### **BUILDING CONSTRUCTION TECHNOLOGY CERTIFICATE**

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

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

#### I. Required for the certificate (25.0 units)

BLDC	101	Safety Standards (Cal/OSHA) 30-Hour Card 3.0
BLDC	110	Construction Blueprints, Specifications, Measurements & Codes 3.0
BLDC	130	Carpentry Layout & Framing 4.
BLDC	135	Residential Plumbing Applications 3.0
BLDC	140	Building Construction Methods & Materials 3.0
BLDC	145	Concrete Formwork, Layout & Setting 3.0
BLDC	170	Essentials of Efficient Green Construction 3.0
BLDC	180	Building Planning & Cost Estimation 3.0

Total Certificate Units 25.0

### BUILDING CONSTRUCTION TECHNOLOGY

#### **SPECIALIZATION CERTIFICATES**

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

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

#### BUILDING CONSTRUCTION TECHNOLOGY: CARPENTRY SPECIALIZATION - Major Plus 7.0 Units

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

#### PROGRAM LEARNING OUTCOMES

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

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

BLDC 150	Carpentry Methods, Materials & Tools	4.0
BLDC 190	Carpentry Trim & Detail Work	3.0
Total Major Units Building Construction Technolo Total Certificate Units:	gy: Carpentry Specialization Units	25.0 7.0 <b>32.0</b>

#### BUILDING CONSTRUCTION TECHNOLOGY: CONCRETE MASONRY SPECIALIZATION - Major Plus 8.0 Units

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

#### PROGRAM LEARNING OUTCOMES

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

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

BLDC	165	Concrete Materials, Methods & Tools	4.0
BLDC	185	Concrete Footings, Flatwork & Detail Work	4.0
Total Major Units Building Construct Total Certificate U		gy: Concrete Masonry Specialization Units	25.0 8.0 <b>33.0</b>

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### **BUSINESS ACCOUNTING TECHNICIAN**

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

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

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

#### **PROGRAM LEARNING OUTCOMES**

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

#### ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

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

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

#### **CAREER OPPORTUNITIES**

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

- Accounting
- Certified Public Accountant
- Franchise Tax Board Agent

- Account Executive
- · Chief Financial Officer Controller
- Government Accountant

- Accountant
- Government Auditor

- Auditor
- Cost Accountant
- Internal Auditor

- Bank Examiner
- Cost Analyst
- Investment Analyst

- Bank Teller
- Credit Analyst
- · Loan Officer

- Budget Analyst Budget Officer
- Credit Manager
- Tax Accountant

- · Certified Internal Auditor
- Estate Planner • FBI Agent
- Tax Consultant

Treasurer

- Certified Management Accountant
   Internal Revenue Service Agent

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

### **BUSINESS ACCOUNTING TECHNICIAN**

#### **ASSOCIATE DEGREE PROGRAM**

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

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

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

#### I. Required courses for the major (25.0 units)

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

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

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

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

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

Total Major Units 28.0

#### **CERTIFICATE PROGRAM**

#### **BUSINESS ACCOUNTING TECHNICIAN CERTIFICATE**

Twenty-eight (28.0) units require for the certificate.

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

#### I. Required courses for the certificate (25.0 units)

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

#### S elect One course from the following (3.0 units)

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

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

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

Total Certificate Units 28.0

<sup>\*\*</sup> It is recommended that BUS 010 be taken as preparation for BUS 210.

<sup>\*\*</sup> It is recommended that BUS 010 be taken as preparation for BUS 210.

### **BUSINESS ADMINISTRATION (For Transfer)**

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

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

The Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

#### PROGRAM LEARNING OUTCOMES

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

#### ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer

(AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

#### **CAREER OPPORTUNITIES**

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

- Accounting
- Appraiser
- Banking
- Business Entrepreneur
- Communications Analyst
- Database Specialist
- Escrow Officer
- Promotion
- Sales
- FBI Agent
- Finance
- Financial Services

- Human Resources Manager
- Loan Officer
- Public Administration
- Health Administration
- Import /Export Agent
- Information Systems Specialist
- Inspection
- Management
- Marketing
- Marketing Manager
- Merchandising Manager
- Product Manager

- Personnel Manager
- Programmer/Analyst
- · Purchasing Marketing
- Real Estate
- Mortgage Broker
- Property Manager
- Real Estate Broker
- · Sales Representative
- Small Business Owner
- Transportation Administration
- Utilities Administration

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

### **BUSINESS ADMINISTRATION (For Transfer)**

#### **ASSOCIATE DEGREE PROGRAM**

#### **BUSINESS ADMINISTRATION**

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

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

#### REQUIREMENTS FOR THE DEGREE

- Units/GPA Must complete a maximum of 60 CSU-transferable semester units with a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. NOTE: While a minimum of 2.0 is required for admission, some institutions and majors may require a higher GPA. Please consult with a counselor for more information.
- II. General Education Must complete one of the following general education transfer patterns:
   A. California State University General Education Breadth Pattern (CSU GE-B) 39 units minimum
   B. Intersegmental General Education Transfer Curriculum (IGETC) 37 units minimum
- III. Twenty-six to twenty-seven (26-27) units required for the major.

A. Requ	uired for the Major		
BUS	126	Business and the Legal Environment	3.0
BUS	210	Principles of Financial Accounting	4.0
BUS	220	Principles of Managerial Accounting	4.0
<b>ECON</b>	101	Introduction to Micro Economics	3.0
<b>ECON</b>	102	Intro to Macro Economics	3.0
B. Selec	ct three/four (3-4) ເ	ınits from:	3.0-4.0
MATH	119	Elementary Statistics (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:

CIS 101 Introduction to Information Systems (3.0)

BUS 124 Introduction to Business (3.0)

or

BUS 260 Business Communications (3.0)

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

6.0

### BUSINESS ADMINISTRATIVE ASSISTANT

#### **DEGREES. CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

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

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

#### PROGRAM LEARNING OUTCOMES

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

#### ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

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

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

### **CAREER OPPORTUNITIES**

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

- Administrative Assistant
- Secretary
- · Records Manager

- Office Technician
- Bookkeeper
- Medical Office Assistant

- Executive Secretary
- Receptionist Word Processor
- (see Allied Health program)

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

### **BUSINESS ADMINISTRATIVE ASSISTANT**

#### **ASSOCIATE DEGREE PROGRAM**

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

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

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

#### I. Required courses for the major (28.0 units)

BUS	105	Business Office Math	3.0
BUS	126	Business and the Legal Environment	3.0
BUS	136	Human Relations in Management	3.0
BUS	172	Office Procedures for the Workplace	3.0
BUS	180	Microsoft Office Suite for the Workplace	4.0
BUS	210**	Principles of Financial Accounting	4.0
BUS	260	Business Communications	3.0
CIS	101	Introduction to Information Systems	3.0
WE	201*	Employment Readiness	1.0
WE	220*	Internship	1.0

<sup>\*</sup> It is recommended that the work experience courses be taken after the 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 and Accuracy, may be helpful in obtaining this skill level.)

Total Major Units 28.0

#### **CERTIFICATE PROGRAM**

#### **BUSINESS ADMINISTRATIVE ASSISTANT CERTIFICATE**

Twenty-eight (28.0) units and skill level required for the certificate.

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

#### . Required courses for the certificate (28.0 units)

105	Business Office Math	3.0
126	Business and the Legal Environment	3.0
136	Human Relations in Management	3.0
172	Office Procedures for the Workplace	3.0
180	Microsoft Office Suite for the Workplace	4.0
210**	Principles of Financial Accounting	4.0
260	Business Communications	3.0
101	Introduction to Information Systems	3.0
201*	Employment Readiness	1.0
220*	Internship	1.0
	126 136 172 180 210** 260 101 201*	126 Business and the Legal Environment 136 Human Relations in Management 172 Office Procedures for the Workplace 180 Microsoft Office Suite for the Workplace 210** Principles of Financial Accounting 260 Business Communications 101 Introduction to Information Systems 201* Employment Readiness

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

#### II. Required skill level for the certificate

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

Total Certificate Units 28.0

 $<sup>^{**}</sup>$  It is recommended that BUS 010 be taken as preparation for BUS 210.

<sup>\*\*</sup> It is recommended that BUS 010 be taken as preparation for BUS 210.

### **BUSINESS MANAGEMENT**

#### **DEGREES. CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

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

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

#### **PROGRAM LEARNING OUTCOMES**

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

#### ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

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

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

#### **CAREER OPPORTUNITIES**

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

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

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

### **BUSINESS MANAGEMENT**

#### **ASSOCIATE DEGREE PROGRAM**

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

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

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

#### Required courses for the major (19.0 units)

BUS	124	Introduction to Business	3.0
BUS	126	Business and the Legal Environment	3.0
BUS	132	Business Management	3.0
BUS	210	Principles of Financial Accounting	4.0
BUS	260	Business Communications	3.0
CIS	101	Introduction to Information Systems	3.0

#### Acceptable courses for the major (minimum of 6.0 units from the following courses)

C	eptable c	ourses for the major	(minimum of 6.0 units from the following courses)
	BUS	063	Essentials in Workplace Communication (3.0)
	BUS	100	Practical Accounting (3.0)
	BUS	120	Retail Management (3.0)
	BUS	134	Management Concepts of Supervision (3.0)
	BUS	136	Human Relations in Management (3.0)
	BUS	144	Principals of Marketing (3.0)
	BUS	145	Human Resources Management (3.0)
	BUS	148	Personal Finance (3.0)
	BUS	220	Principles of Managerial Accounting (4.0)
	CIS	108	Computer Accounting (3.0)
	CIS	124	Excel I (1.0)
	CIS	125	Excel II (1.0)
	ECON	101	Intro to Micro Economics (3.0)
	ECON	102	Intro to Macro Economics (3.0)
	WE	201	Employment Readiness (1.0)
	WE	220	Internship (1.0)

**Total Major Units** 25.0

#### **CERTIFICATE PROGRAM**

#### **BUSINESS MANAGEMENT CERTIFICATE**

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

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

#### Required courses for the certificate (19.0 units)

BUS	124	Introduction to Business	3.0
BUS	126	Business and the Legal Environment	3.0
BUS	132	Business Management	3.0
BUS	210	Principles of Financial Accounting	4.0
BUS	260	Business Communications	3.0
CIS	101	Intro to Information Systems	3.0

### Acceptable courses for the certificate (minimum of 6.0 units from the following courses)

eptable c	ourses for	the certificate (minimum of 6.0 units from the following co
BUS	063	Essentials in Workplace Communication (3.0)
BUS	100	Practical Accounting (3.0)
BUS	120	Retail Management (3.0)
BUS	134	Management Concepts of Supervision (3.0)
BUS	136	Human Relations in Management (3.0)
BUS	144	Principals of Marketing (3.0)
BUS	145	Human Resources Management (3.0)
BUS	148	Personal Finance (3.0)
BUS	220	Principles of Managerial Accounting (4.0)
CIS	108	Computer Accounting (3.0)
CIS	124	Excel I (1.0)
CIS	125	Excel II (1.0)
ECON	101	Intro to Micro Economics (3.0)
ECON	102	Intro to Macro Economics (3.0)
WE	201	Employment Readiness (1.0)
WE	220	Internship (1.0)

**Total Certificate Units** 25.0

### **BUSINESS OFFICE TECHNICIAN**

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

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

This program provides students with entry level competencies for employment in an office environment with the latest technology applications. Students will become team players, communicators, leaders, and self-starters with a high level of organizational skills and confidence. Interpersonal and analytical skills will not only help students do well in the workplace, but also provide possible career advancement opportunities.

#### **PROGRAM LEARNING OUTCOMES**

- 1. Solve business-related math problems.
- 2. Design and create business documents using Microsoft Office Suite.
- 3. Apply accurate written, verbal and nonverbal techniques in order to communicate effectively.

#### ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

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

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

#### **CAREER OPPORTUNITIES**

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

- Administrative Assistant
- Secretary
- Records Manager

- Office Technician
- Bookkeeper
- Medical Office Assistant

- Executive SecretaryAdministrative Manager
- ReceptionistWord Processor
- (See Allied Health program)

• Computer Applications Specialist

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

#### TRANSFER PREPARATION

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

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

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

#### **FINANCIAL AID**

### **BUSINESS OFFICE TECHNICIAN**

#### **ASSOCIATE DEGREE PROGRAM**

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

Twenty-nine (29.0) units and skill level required for the major.

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

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

BUS	059	Practical English for the Workplace	3.0
BUS	061	Business English	3.0
BUS	063	Essentials in Workplace Communication	3.0
BUS	105	Business Office Math	3.0
BUS	164	Microsoft Word for the Workplace	3.0
BUS	169	Records Management	2.0
BUS	172	Office Procedures for the Workplace	3.0
BUS	180	Microsoft Office Suite for the Workplace	4.0
BUS	260	Business Communications	3.0
WE	201*	Employment Readiness	1.0
WE	220*	Internship	1.0
* It is roa		have all averagion as a surress has talian after the assemblation of at least 12	

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

#### III. Required skill level for the major

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

Total Major Units 29.0

#### **CERTIFICATE PROGRAM**

#### **BUSINESS OFFICE TECHNICIAN CERTIFICATE**

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

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

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

		-: (= (= ,	
BUS	059	Practical English for the Workplace	3.0
BUS	061	Business English	3.0
BUS	063	Essentials in Workplace Communication	3.0
BUS	105	Business Office Math	3.0
BUS	164	Microsoft Word for the Workplace	3.0
BUS	169	Records Management	2.0
BUS	172	Office Procedures for the Workplace	3.0
BUS	180	Microsoft Office Suite for the Workplace	4.0
WE	201*	Employment Readiness	1.0
WE	220*	Internship	1.0

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

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

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

Total Certificate Units 26.0

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

#### **DEGREES, CERTIFICATES AND AWARDS**

Certificate of Achievement

#### **DESCRIPTION**

Students transferring to the California State University system have the opportunity to complete their lower division general education requirements at Imperial Valley College (IVC). This pattern of general education consists of 39 semester units. Earning a CSU/GE-Breadth Certificate of Achievement will enable IVC to officially acknowledge the significant educational achievement the student has completed at IVC. For specific course identification that clear the CSU/GE-Breadth requirements for each section please see a Counselor for assistance.

CSU/GE-Breadth is separated into 5 separate academic areas. Each area requires a specific unit/course requirement(s). A grade of "C" or better for each course used to satisfy the CSU/GE-Breadth requirements is required. It is recommended, and at some CSU's required, that the CSU/GE-Breadth be completed in its entirety prior to transfer. Students who do not complete the entire program before transfer could be subject to the general education requirements of the campus or college to which they transfer.

#### PROGRAM LEARNING OUTCOMES

1. See GE Program Outcomes/Course Alignment Grid at www.imperial.edu/faculty-and-staff/ campus-committess/student-learning-outcomes/

#### **CERTIFICATE OF ACHIEVEMENT PROGRAM**

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

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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www.CSUMentor.edu - CSU System Information

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

#### **FINANCIAL AID**

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

#### **CERTIFICATE PROGRAM**

**CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION BREADTH (CSU GE-B) CERTIFICATE** Students must complete a minimum of 39 semester units used to satisfy the CSU GE-B requirements.

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

## CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION BREATH (CSU GE-B) REQUIREMENTS For specific course identification that clear the CSU GE-B requirements for each section, please see a Counselor for assistance.

for each section, please see a Counselor for assistance.	
AREA A – ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING (9 semester or 12/15 quarter units)	Minimum Units Required Per Area
Area A1: Oral Communication (3 semester/4 quarter units)	3
Area A2: Written Communication (3 semester/4 quarter units)	3
Area A3: Critical Thinking (3 semester/4 quarter units)	3
AREA B – SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING Minimum: 9 semester or 12/15 quarter units with at least one lab course from either area.	
Area B1: Physical Science – One course required	3
Area B2: Life Science – One course required	3
Area B3: Laboratory Activity – One Course required (see Area B1 and B2 for a laboratory course)	
Area B4: Mathematics/Quantitative Reasoning – One Course required	3
AREA C – ARTS AND HUMANITIES - Nine (9) semester or 12/15 quarter units Three (3) courses, with at least one course from the Arts and one Course from the Humanities. The third course from either area.	
<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
AREA D – AMERICAN INSTITUTIONS (AI) AND SOCIAL SCIENCE (Areas D0 thru D9) Nine (9) semester or 12/15 quarter units. A least three courses from at least two (2) academic disciplines.	
Area AI/D6 (US-2/US-3): Political Science (POLS) 102	3
<b>Area Al/DI (US-1):</b> History (HIST) 120 <u>or</u> 121	3
Area D: Human Social, Political and Economic Institutions and Behavior – One course required	3
AREA E – LIFELONG UNDERSTANDING AND SELF-DEVELOPMENT One Course (3 semester/4 quarter units)	
Area E: Understanding and Self Development	3
TOTAL MINIMUM UNITS REQUIRED	39

**NOTE - CSU/GE Certification:** Earning this Certificate of Achievement will not replace the CSU/GE Certification document. The "certification" of CSU General Education Breadth is a separate process. The student must request CSU/GE Certification at the time he/she requests a final IVC transcript to be sent to the CSU or other school he/she plans on attending.

#### **DEGREES, CERTIFICATES AND AWARDS**

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

Specialization Certificates: Administration, Children with Special Needs, Infant/Toddler, and School Age

#### **DESCRIPTION**

Child Development is the study of the physical, socio-emotional and cognitive growth and development of the child from infancy through adolescence. The Child Development program provides an educational and practical foundation for students interested in working with children. In addition to theoretical principles, the curriculum offers practical skills and on-site training that will prepare students for employment in the field of education. The program leads to an associate's degree in Child Development, a certificate for the position of Associate Teacher, and specialization certificates in Administration, Children with Special Needs, Infant/Toddler, School Age. The program also fulfills the required child development course work for the state issued Child Development Permit. Information regarding this permit and/or the Child Development certificate is available from the Child, Family and Consumer Sciences Department.

#### **PROGRAM LEARNING OUTCOMES**

- 1. Exhibit grounding in a child development knowledge base.
- 2. Demonstrate knowledge in building relationships with children, family and community.
- 3. Observe, document, and assess to support young children and families.
- 4. Demonstrate developmentally effective approaches to create positive relationships and supportive interactions as the foundation in working with children and families from diverse societies.
- 5. Use content knowledge to build meaningful curriculum.
- 6. Demonstrate Professionalism.

#### **ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS**

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

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#### **CAREER OPPORTUNITIES**

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

- · Adoption Counselor
- Child Advocate
- Child Care Coordinator
- Camp Counselor
- Child Life Specialist
- Children's Hospital Worker
- Child Life Specialist
- Child Psychologist
- · Early Childhood • Teacher/Administrator
- Early Childhood Special
- Education Specialist
- Family Child Care Provider
- Home Based Educator
- · Marriage/Family Counselor
- Music/Art Therapist
- Pediatric Psychologist · School-Age Care Provider
- Social Worker
- Special Education Assistant Special Education Teacher
- Before/After School Teacher/Director Child Development Specialist
- Community College Instructor Consultant to Educational Toy Producers
- Distributor of Educational Toys Early Childhood Instructional Aide Elementary School Teacher
- Employer-Sponsored Child Care Teacher/Director Infant Day Care Teacher/Director
- K-12 Instructional Assistant
   Parent/Adult Education Instructor
   Planned Parenthood Worker
- Playground/Environment Designer Preschool Teacher or Administrator
- · Resource and Referral Coordinator

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



#### TRANSFER PREPARATION

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

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www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

#### **ASSOCIATE DEGREE PROGRAM**

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

Thirty to Thirty One (30.0 - 31.0) units required for the major.

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

#### I. Required Courses for the major (26.0 units)

CDEV	100	Principles & Practices of Teaching Young Children	3.0
CDEV	101	Health, Safety and Nutrition	3.0
CDEV	102	First Aid & CPR for Teachers of Young Children	1.0
CDEV	103	Children, Family and Community	3.0
CDEV/PSY	104	Child Growth and Development	3.0
CDEV	105	Introduction to Curriculum	3.0
CDEV	106	Observation and Assessment	3.0
CDEV	107	Teaching in a Diverse Society	3.0
CDEV	200	Practicum-Field Experience	4.0

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

iect	tour to i	nve units from the	e following (4.0-5.0 units; two courses):
CD	EV	120	Language & Literature for Early Childhood (2.0)
CD	EV	121	Art for Young Children (2.0)
CD	EV	122	Science and Math for Early Childhood (2.0)
CD	EV	123	Music & Movement for Early Childhood (2.0)
CD	EV	124	Creative Cooking for Children (2.0)
CD	EV	125	Multilingual & Multicultural Curriculum for Young Children (3.0)

Total Major Units 30.0-31.0

#### **CERTIFICATE PROGRAM**

#### **CHILD DEVELOPMENT ASSOCIATE TEACHER**

Sixteen (16.0) units required for the certificate.

The Child Development Associate Teacher Certificate of Achievement is designed for students who are interested in working with young children as preschool associate teachers, daycare providers, and other child development careers in early childhood. The Early Childhood Associate Teacher Certificate provides students with a background of knowledge and skills in child growth and development. The certificate meets the requirements for the Child Development Permit Matrix: Associate Teacher Permit, requiring 12 units in early childhood, first aid and CPR, and the additional courses required by most child care providers for employment, totaling 16 units.

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

#### **PROGRAM LEARNING OUTCOMES**

- 1. Describe and apply principles of cognitive, physical, and social emotional development for young children birth to adolescence.
- 2. Identify components of quality early childhood programs.
- 3. Assist in the planning and implementation of developmentally appropriate activities and environmental design.
- 4. Observe and document children's development in partnership with families for positive influence on children's development.

#### I. Required Courses for the certificate

CDEV 101	Health, Safety and Nutrition	3.0
CDEV 102	First Aid and CPR for Teachers of Young Children	1.0
CDEV 103	Children, Family and Community	3.0
CDEV/PSY 104	Child Growth and Development	3.0
CDEV 105	Introduction to Curriculum	3.0
CDEV 106	Observation and Assessment	3.0

Note: To be eligible for the State of California Child Development Permit; Associate Teacher students must complete the following experience requirements: fifty (50) days of three or more hours per day within two years.

Total Certificate Units 16.0

#### **SPECIALIZATION CERTIFICATES**

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

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

#### CHILD DEVELOPMENT ADMINISTRATION SPECIALIZATION - Major Plus 9.0 Units

The Administration Specialization Certificate is a certificate demonstrating a completion of specialized course work above the major in the area of Administration. This specialization certificate will prepare students to supervise and manage early childhood programs.

#### PROGRAM LEARNING OUTCOMES

- 1 Prioritize, organize and manage the logistics of an early Care and Education program including; staff training, evaluation, budget, and community relations.
- 2 Supervise staff, assistants, aids, and teachers in an early care and education setting.
- 3 Create a developmentally appropriate learning environment for children in an early care and education setting.
- 4 Assess the development of children for the purposes of curriculum planning and implementation.
- 5 Recognize, integrate and value the individualized needs of the diverse children and their families.

#### The major plus nine (9.0) additional units in Administration

CDEV	210	Administration and Supervision	3.0
CDEV	211	Advanced Management Functions	3.0
CDEV	212	Adult Supervision in Child Development Programs	3.0
Total Major Units			30.0-31.0

Child Development Administration Specialization Units 9.0 **Total Certificate Units:** 39.0-40.0

#### CHILD DEVELOPMENT CHILDREN WITH SPECIAL NEEDS SPECIALIZATION - Major Plus 6.0 Units

The Child Development Certificate with Specialization in Special Needs focuses on professional preparation for employment with children with special needs and their families in a variety of early childhood settings. Emphasis will be placed on early intervention, curriculum strategies, screening and assessment tools, laws affecting special education and collaboration with families and professionals.

#### **PROGRAM LEARNING OUTCOMES**

- 1 Students will be prepared for employment in early intervention programs, inclusive early childhood programs, and early special education programs in a variety of early childhood settings.
- 2 Students will recognize various exceptionalities and conditions of children and identify interventions and curriculum strategies.
- 3 Students will gain knowledge in special education laws both federal and state, and regulations impacting care and education of children with special needs.

#### The major plus six (6.0) units in Associate Teacher course work.

CDEV	240	Introduction to Children with Special Needs	3.0	
CDEV	241	Curriculum and Strategies for Children with Special Needs	3.0	
T . 114			200240	
Total Major Units			30.0-31.0	
Child Development Children with Special Needs Specialization Units				

36.0-37.0

**Total Certificate Units:** 

#### **SPECIALIZATION CERTIFICATES**

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

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

#### CHILD DEVELOPMENT INFANT/TODDLER SPECIALIZATION - Major Plus 6.0 Units

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

#### PROGRAM LEARNING OUTCOMES

- 1 Recognize the importance of infancy as a unique time in children's development that requires specialized developmentally appropriate activities, routines, interactions, and guidance.
- 2 Distinguish the unique needs of children less than three years from older children in areas ofhealth, safety, environmental design, curriculum, and social emotional development.
- 3 Understands the importance of establishing positive child, family, and provider relationships.

#### I. The major plus six (6.0) units in Infant/Toddler course work.

CDEV	220	Infant/Toddler Development	3.0
CDEV	221	Infant/Toddler Curriculum	3.0

Child Development Infant/Toddler Specialization Units 6.0

Total Certificate Units: 36.0-37.0

#### CHILD DEVELOPMENT SCHOOL-AGE SPECIALIZATION CERTIFICATE - Major Plus 6.0 Units

The School-Age Specialization Certificate is a certificate demonstrating a completion of specialized course work above the major in working with school-age children. This certificate will also meet the requirements for the specialization field in applying for the Master Teacher Permit.

#### **PROGRAM LEARNING OUTCOMES**

**Total Major Units** 

- 1. Create appropriate environments for a variety of before and after-school programs, and full day programs.
- 2. Demonstrate respectful and positive interactions that value diverse children and families.
- 3. Demonstrate positive quidance strategies that promote self discipline and positive interactions among peers.

#### I. The major plus six (6.0) units in School-Age course work.

		( ,	
CDEV	230	School-Age Development	3.0
CDEV	231	School-Age Curriculum	3.0

Total Major Units

Child Development School-Age Specialization Units

Total Certificate Units:

30.0-31.0

6.0

36.0-37.0

30.0-31.0

### CISCO CCNA DISCOVERY

#### **DEGREES. CERTIFICATES AND AWARDS**

Certificate of Achievement

#### **DESCRIPTION**

The Cisco CCNA Discovery program provides general networking theory, practical experience, soft-skills development, and opportunities for career exploration. It teaches networking based on application, covering networking concepts within the context of network environments students may encounter in their daily lives -- from small office and home office (SOHO) networking to more complex enterprise and theoretical networking models later in the curriculum. The program prepares students for two different Cisco certification exams. After completing the program, students will be prepared to take the industry-standard Cisco CCNA certification exam. In addition, students may opt to take the CCENT certification as a first step toward earning the CCNA certification. CCENT certifies the practical skills required for entry-level information and communication technology skills and demonstrates a student's aptitude and competence to work in an environment that features Cisco networking devices and software.



The Cisco CCNA Discovery curriculum is primarily designed for students who are seeking entry-level information and communication technology skills for positions such as network administrator, network engineer, network technician, computer technicians, network installer, and help desk technician.

#### PROGRAM LEARNING OUTCOMES

- 1. Demonstrate aptitude and competence for working with Cisco routers, switches and Cisco IOS.
- 2. Show the practical skills required for associate-level networking support positions.
- 3. Demonstrate skills necessary to pass two different Cisco certification exams, CCENT or CCNA.

#### **CERTIFICATE OF ACHIEVEMENT PROGRAM**

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

### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

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

#### **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

- Computer Technician
- Database Programmer
- Network Technician
- Network Administrator
- System Administrator
- System Operator
- System Manager
- Help Desk Technician
- Computing Support Specialist
- Applications Specialist

• Computing Applications Specialist

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

### **CISCO CCNA DISCOVERY**

### **CERTIFICATE PROGRAM**

#### **CISCO CCNA DISCOVERY CERTIFICATE**

Fourteen to seventeen (14.0-17.0) units required for the certificate.

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

#### I. Required courses for the certificate (14.0-17.0 units)

CIS	160	CISCO IT Essentials: Hardware and Software	4.0
CIS	162	CISCO CCNA Discovery 1: Introduction to Networks	4.0
CIS	163	CISCO CCNA Discovery 2: Routing and Switching Essentials	4.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0-4.0

Total Certificate Units 14.0-17.0

### **COMMUNICATION STUDIES (For Transfer)**

#### **DEGREES, CERTIFICATES AND AWARDS**

Associate in Arts Degree in Communication Studies for Transfer (AA-T)

#### **DESCRIPTION**

Communication Studies is a broad-based discipline concerned with the exchange of messages in interpersonal and mediated situations and with the impact of such exchanges on society. Courses focus on understanding the communication process and developing skills to communicate effectively. This associate's degree will also provide the student with the knowledge base in analytical, critical and practical skills that will help students to understand and improve communications practices and systems as they occur within and among individuals, groups, organizations and societies.

The Associate in Arts for Transfer (AA-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

#### PROGRAM LEARNING OUTCOMES

- 1. Students will be able to construct and articulate a basic case for a parliamentary debate.
- 2. Students will be able to recognize and avoid using ten logical fallacies during classroom presentations.
- 3. Students will be able to write and submit five properly-worded debate propositions.

#### ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

#### CAREER OPPORTUNITIES

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

- Community Relations Director
- Organizational Trainer
- Organizational Newsletter Editor
- Public Information Specialist
- Media Technician
- Organizational Consultant
- Personnel Staff
- Public Service Agency Staff
- Corporate Media Director
- Communication Consultant
- Public Relations Professional

Lawyer

Politician

Staff Analyst

• Focus Group Leader

Political Campaign Staff

• Public Affairs Director

· Consumer Market Researcher

• Advertising Account Executive

- Video Editor
- Video Producer or Director
- Health Educator
- Fund Raiser
- Multimedia Project Manager
- Community College Instructor
- Lobbyist
- Speech Writer
- Minister
- Organizational Trainer and Developer Media Sales and Promotion Staff

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### FINANCIAL AID

### **COMMUNICATION STUDIES (For Transfer)**

#### **ASSOCIATE DEGREE PROGRAM**

#### **COMMUNICATION STUDIES**

Associate in Arts Degree in Communication Studies for Transfer (AA-T) – 18.0-19.0 units

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

#### REQUIREMENTS FOR THE DEGREE

- I. Units/GPA Must complete a maximum of 60 CSU-transferable semester units with a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. NOTE: While a minimum of 2.0 is required for admission, some institutions and majors may require a higher GPA. Please consult with a counselor for more information.
- II. General Education Must complete one of the following general education transfer patterns:
   A. California State University General Education Breadth Pattern (CSU GE-B) 39 units minimum
   B. Intersegmental General Education Transfer Curriculum (IGETC) 37 units minimum
- III. Eighteen to nineteen (18 -19) units required for the major.

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COMM 100 Oral Communication 3.0 A. Select six (6) units from: 6.0

COMM 125 Interpersonal Communication (3.0) COMM 130 Small Group Communication (3.0) COMM 180 Argumentation and Debate (3.0)

B. Select six to seven (6.0-7.0) units from: 6.0-7.0

<sup>\*</sup>Any course that has articulation as lower division preparation for the communication studies major at a CSU.

COMM	150	Intercultural Communication (3.0)
ENGL	102	Introduction to Literature (3.0)
ENGL	201	Advanced Composition (3.0)
HIST	110	Early Western Civilization (3.0)
HIST	111	Modern Western Civilization (3.0)
JRN	100	Introduction to Journalism (3.0)
MATH	119	Elementary Statistics (4.0)

PSY 144 The Psychology of Interpersonal Relationships (3.0)

C. Select three (3) units from:

#### \*Any Section A or B course not used above

ANTH 102 Cultural Anthropology (3.0)
PSY 101 Introduction to Psychology (3.0)
SOC 101 Introduction to Sociology (3.0)

Total Major Units

CSU-GE or IGETC Pattern

Electives (as needed to reach 60 CSU transferable units)

18.0-19.0

37.0-39.0

Total Maximum Units: 60.0

3.0

<sup>\*</sup>Any Section A course not used above

### COMPUTER INFORMATION SYSTEMS

#### **DEGREES, CERTIFICATES AND AWARDS**

Associate in Science Degree (A.S.)

#### **DESCRIPTION**

Computer Information Systems are the tools that facilitate the effective and efficient transformation of data into information. Careers in today's information systems require knowledge and hands-on experience in microcomputer applications, programming, operating systems, and networking. This program provides the lower division coursework for advanced degrees and should be followed if a student's goal is to transfer to a four-year institution for continued study in computer information systems. Since requirements vary at each four-year school, transfer students should consult with a counselor to develop a program for the specific school they wish to attend. The program in Computer Information Systems offers students an opportunity to earn an associate's degree as well as coursework in general CIS electives for students in other fields of study campus-wide.



- 1. Evaluate and interpret business and computer data and reach reasoned conclusions.
- 2. Communicate effectively to relevant populations.
- 3. Create computer programs using a program language that incorporates good design principles and meets specifications.

#### **ASSOCIATE DEGREE PROGRAM**

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

#### **CAREER OPPORTUNITIES**

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

- Programmer
- Applications Programmer
- Systems Programmer
- Information Specialist
- Programmer Analyst
- Software Engineer
- Systems Analyst
- · Systems Integrator
- Project Manager

- Web Developer
- Web Designer
- Webmaster
- Data Administrator
- Database Administrator

Network Technician

Network Administrator

System Administrator

• Help Desk Technician

Applications Specialist

System Operator

System Manager

- Database Manager
- Database Operator
- Database Programmer
- Computer Technician
- Computing Applications Specialist Computing Support Specialist

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



#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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www.CSUMentor.edu – CSU System

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

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

#### **FINANCIAL AID**

### **COMPUTER INFORMATION SYSTEMS**

### **ASSOCIATE DEGREE PROGRAM**

### **COMPUTER INFORMATION SYSTEMS MAJOR – A.S. DEGREE**

Thirty (30.0) units required for the major.

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

I.	Required	courses for the m	ajor (21.0 units)	
	BUS	126	Business and the Legal Environment	3.0
	BUS	210	Principles of Financial Accounting	4.0
	BUS	220	Principles of Managerial Accounting	4.0
	CIS	101	Introduction to Information Systems	3.0
	CIS	125	Excel II	1.0
	ECON	101	Introduction to Micro Economics	3.0
	ECON	102	Introduction to Macro Economics	3.0
	Select s	six (6.0) programı	ming units:	
	CIS	202*	Programming in Visual Basic (3.0)	
	CIS	210*	Programming in C++ (3.0)	
	CS	170*	Introduction to Unix/Linux (3.0)	
	CS	221*	Introduction to Object-Oriented Programming in Java (3.0)	
II.	Select at le	east three (3.0) ele	ective units:	
	BUS	240	Computer Accounting (3.0)	
	BUS	260	Business Communications (3.0)	
	CIS	104	Introduction to Telecommunications (3.0)	
	CIS	124	Excel I (1.0)	
	CIS	128	Microsoft Access (1.0)	
	CIS	137	Web Development Tools (3.0)	
	CIS	155	Flash (3.0)	
	CIS	160	CISCO IT Essentials: Hardware & Software (4.0)	
	CIS	202*	Programming in Visual Basic (3.0)	
	CIS	210*	Programming in C++ (3.0)	
	CIS	212	Web Development Programming (3.0)	
	CIS	214	PHP and MySQL (3.0)	
	CS	170*	Introduction to Unix/Linux (3.0)	
	CS	221*	Introduction to Object-Oriented Programming in Java (3.0)	
	WE	201	Employment Readiness (1.0)	
	WE	220	Internship (1.0-4.0)	

Total Major Units 30.0

\*If not used for section I. programming units.

### COMPUTER SCIENCE (For Transfer)

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

Computer Science is the study of computer software design. development, and programming. Computer scientists seek to advance the fundamental understanding of how information is processed, as well as the practical design of software and hardware to accomplish specific functions.

The Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.



#### PROGRAM LEARNING OUTCOMES

- 1. Manage a programming project from start to finish, both individually and in teams.
- 2. Think critically and utilize qualitative and quantitative reasoning skills to design and implement an effective problem solution.
- 3. Apply algorithmic and symbolic thinking to the problem-solving process.

#### ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

#### **CAREER OPPORTUNITIES**

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

- Systems Programmer
- · Software Designer
- Computer Researcher
- Systems Administrator
- Security Systems Designer
- Database Programmer
- Consultant
- Educator
- Documentation/Technical Writer
- Technical Sales and Marketing Specialist
- Scientific Application Programmer
- Computer Services Coordinator
- Computer Graphics Specialist

- 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
  - Technical Product Support Personnel • Management Information Specialist
  - Computer Operations Manager
  - · Data Communications Manager

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

#### TRANSFER PREPARATION

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

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www.CSUMentor.edu - CSU System Information

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

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

#### **FINANCIAL AID**

### **COMPUTER SCIENCE (For Transfer)**

#### **ASSOCIATE DEGREE PROGRAM**

#### COMPUTER SCIENCE

Associate in Science Degree in Computer Science for Transfer (AS-T) – 28.0 units

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

#### **REQUIREMENTS FOR THE DEGREE**

- Units/GPA Must complete a maximum of 60 CSU-transferable semester units with a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. NOTE: While a minimum of 2.0 is required for admission, some institutions and majors may require a higher GPA. Please consult with a counselor for more information.
- II. General Education Must complete one of the following general education transfer patterns:
  - A. California State University General Education Breadth Pattern (CSU GE-B) 39 units minimum
  - B. Intersegmental General Education Transfer Curriculum (IGETC) 37 units minimum
- III. Twenty-eight (28) units required for the major

#### Required for the Major

CS	221	Introduction to Object Oriented Programming in Java	3.0
CS	231	Introduction to Data Structures	3.0
CS	281	Assembly Language and Machine Organization	3.0
MATH	192	Analytic Geometry and Calculus I	4.0
MATH	194	Analytic Geometry and Calculus II	4.0
MATH	240	Discrete Mathematics	3.0
PHYS	200	General Physics I	4.0
PHYS	202	General Physics II	4.0

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

### CORRECTIONAL SCIENCE

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

The Correctional Science program offers an Associate in Science Degree and a Certificate of Achievement. The program provides the foundational education required for an individual's career entry into the criminal justice field, specifically correctional operations and probation/parole case investigations. The courses range from concepts of criminal law, evidence, investigation and reporting to criminology, aspects of social change, and corrections investigations.

#### PROGRAM LEARNING OUTCOMES

- 1. Identify the basic concepts between Probation and Parole and the role they play in the criminal justice arena.
- 2. Identify the methods used and the purposes of institutional safety and how it relates to the structure and organization of inmate control and supervision.
- 3. Identify the various kinds of interventions available and the techniques used in the industry.

#### **ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS**

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

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

#### **CAREER OPPORTUNITIES**

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

 Correctional Officer Security Guard

#### **Related Career Opportunities**

 Fire Inspectors • Fire Investigators

Bailiffs

Jailors

- Criminal Investigators

Deputy Sheriffs

Investigators

Private Detectives

- Special Agents
- Immigration Inspectors
- Customs Inspectors
- Police Detectives Sheriffs
- Transit and Railroad Police

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



#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

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

#### **FINANCIAL AID**

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

financial-aid-and-scholarships/

### **CORRECTIONAL SCIENCE**

#### **ASSOCIATE DEGREE PROGRAM**

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

Twenty-four (24.0) units required for this major.

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

#### I. Required courses for the major (15.0 units)

AJ	108	Public Safety Report Writing (Formerly AJ 120)	3.0
CSI	100	Introduction to Corrections	3.0
CSI	104	Concepts of Probation and Parole	3.0
CSI	206	Correctional Interviewing and Counseling (Formerly CSI 106)	3.0
CSI	208	Control and Supervision of Inmates (Formerly CSI 108)	3.0

#### II. Select nine (9.0) units from the following courses:

AJ	100	Introduction to Administration of Justice (3.0)
AJ	102	Concepts of Criminal Law (3.0)
AJ	110	Law Enforcement Community Relations (3.0)
AJ	141	Arrest and Firearms (3.5)
AJ	222	Criminal Investigation (Formerly AJ 122) (3.0)
ΑJ	223	Juvenile Control (Formerly AJ 123) (3.0)

Total Major Units 24.0

#### **CERTIFICATE PROGRAM**

#### **CORRECTIONAL SCIENCE CERTIFICATE**

Twenty-five (25.0) units required for this certificate.

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

### I. Required courses for the certificate (19.0 units)

AJ	108	Public Safety Report Writing (Formerly AJ 120)	3.0
CSI	100	Introduction to Corrections	3.0
CSI	104	Concepts of Probation and Parole	3.0
CSI	206	Correctional Interviewing and Counseling (Formerly CSI 106)	3.0
CSI	208	Control and Supervision of Inmates (Formerly CSI 108)	3.0
ENGL	110	Composition and Reading	4.0

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

ΑJ	100	Introduction to Administration of Justice (3.0)
ΑJ	102	Concepts of Criminal Law (3.0)
ΑJ	110	Law Enforcement Community Relations (3.0)
ΑJ	141	Arrest and Firearms (3.5)
ΑJ	222	Criminal Investigation (Formerly AJ 122) (3.0)
ΑJ	223	Juvenile Control (Formerly AJ 123) (3.0)

Total Certificate Units 25.0

## **DIESEL FARM MACHINERY** AND HEAVY EQUIPMENT

#### **DEGREES, CERTIFICATES AND AWARDS**

Certificate of Achievement

#### DESCRIPTION

This Certificate program is designed to prepare students for employment positions in the field of diesel technology. In this program, students will be maintaining, servicing, and repairing: agricultural hydraulic equipment, construction machines, train locomotive engines, farm tractors, stationary diesel engines and diesel powered highway transportation units. This program will be integrated with the automotive technology program by allowing students the opportunity to specialize in diesel and heavy equipment technology. In addition students will be able to operate diesel engines using alternative fuels such as biodiesel, compressed natural gas, liquefied natural gas, alcohols, hydrogen, and fuel cells. Upon successful completion of this diesel program, students are prepared to take the Automotive Service Excellence (ASE) Certification Exam in Diesel Engines (T2), Preventive Maintenance for tasks (T8), and Alternative Fuels (T6)

#### PROGRAM LEARNING OUTCOMES

- 1. The student will be able to demonstrate safe operation of hand tools and equipment.
- 2. The student will be able to identify major agricultural equipment components, construction machines and transportation units.
- 3. The student will be able to diagnose major component failures, recommend repairs, and perform typical major component repairs.

#### CERTIFICATE OF ACHIEVEMENT PROGRAM

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

#### **CAREER OPPORTUNITIES**

- Farm Equipment Technician
- Bus Maintenance and Repair Technician
- Heavy Equipment Maintanance and Repair Technician
- Diesel Truck Maintenance and Repair Technician

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

#### **FINANCIAL AID**

# DIESEL FARM MACHINERY AND HEAVY EQUIPMENT

### **CERTIFICATE PROGRAM**

### **DIESEL FARM MACHINERY AND HEAVY EQUIPMENT**

Twenty (20.0) units required for the certificate.

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

### I. Required courses for the certificate.

AUT	110	Engine Technology	4.0
AUT	140	Diesel Engine Maintenance and Repair	4.0
AUT	165	Diesel Preventive Maintenance and Inspection	4.0
AUT	240	Diesel Engine Tune-Up	3.0
AUT	285	Alternative Fuels for Diesel Engines	4.0
WE	201	Employment Readiness	1.0

Total Certificate Units 20.0

### **DIGITAL DESIGN AND PRODUCTION**

#### **DEGREES. CERTIFICATES AND AWARDS**

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

**PROGRAM LEARNING OUTCOMES** 

#### **DESCRIPTION**

The Digital Design and Production program is an interdisciplinary program that combines technical knowledge with design, communication, and problem solving skills. It includes software applications that allow a student to produce multimedia and graphics for a digital world. Career paths chosen by students pursuing undergraduate studies in Digital Design and Production commonly include graphic design, web and video production. Students learn how to process information and then make this information available to audiences via electronic media. The program provides students with the entrylevel competencies for employment which requires knowledge to produce a variety of computer, Web, and/or multimedia graphics, animation, sound and video production, and/or content materials. The program provides students with the ability to freelanceor work from within small design firms to develop web pages and multimedia for small or large businesses.

- 1. Produce and present ideas visually and apply principles of development in multimedia.
- 2. Demonstrate visual techniques and design web page and web layouts with appropriate software that is technically and visually sound.
- 3. Create digital publications that are professionally designed and modified to fit the needs of clients.

#### **ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS**

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

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

#### **CAREER OPPORTUNITIES**

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

Video Designer

Video Production Assistant

• Web Page Designer

Video Editing

Webmaster

- Background Artist
- Content Development
- Digital Artist
- 3D Animator
- Game Artist
- Graphics Production
- Information Architect

- Production Assistant
  - Product Modeling

Interface Design

Lavout Design

- Product Animator
- Storyboard Artist
- Web/Multimedia Development Web/Multimedia Programming

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



#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

### DIGITAL DESIGN AND PRODUCTION

#### **ASSOCIATE DEGREE PROGRAM**

201

CIS

CIS

CIS

WF

#### **DIGITAL DESIGN AND PRODUCTION MAJOR- A.S. DEGREE**

Twenty-five/twenty-six (25.0-26.0) units for the major.

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

I.	Required courses for the major (20.0 units)			
	ART	160	Graphic Design	
	CIS	137	Web Development	
	CIS	149	Computer Graphic	

3.0 nt Tools 3.0 149 Computer Graphics - Photoshop 3.0 150 Computer Graphics - Illustrator 3.0 155 Flash 3.0 180 **Advanced Computer Graphics** 3.0

WE Internship 220 Select one course from the following:

ART Design (3.0) 110 ART Advertising/Graphic Design (3.0) 260 CIS 212 Web Development Programming (3.0)

2.0-3.0 II. Select one course from the following:

**Employment Readiness** 

Business Plan Development (2.0) BUS 122 Principles of Marketing (3.0) BUS 144 BUS 260 Business Communications (3.0)

**Total Major Units** 25.0 - 26.0

#### **CERTIFICATE PROGRAM**

#### **DIGITAL DESIGN AND PRODUCTION CERTIFICATE**

Twenty-two / Twenty-three (22.0-23.0) units for the certificate.

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

#### Required courses for the major (20.0 units)

	ART	160	Graphic Design	3.0
	CIS	137	Web Development Tools	3.0
	CIS	149	Computer Graphics - Photoshop	3.0
	CIS	150	Computer Graphics - Illustrator	3.0
	CIS	155	Flash	3.0
	CIS	180	Advanced Computer Graphics	3.0
	WE	201	Employment Readiness	1.0
	WE	220	Internship	1.0
II.	Select or	ne course fr	om the following:	3.0

#### Select one course from the following: Docion (2 0)

AKI	110	Design (3.0)
ART	260	Advertising/Graphic Design (3.0)
BUS	122	Business Plan Development (2.0)
BUS	144	Principles of Marketing (3.0)
BUS	260	<b>Business Communications (3.0)</b>
CIS	212	Web Development Programming (3.0)

**Total Certificate Units** 22.0-23.0

1.0

1.0

3.0

# **EARLY CHILDHOOD EDUCATION (For Transfer)**

#### **DEGREES, CERTIFICATES AND AWARDS**

Associate in Science Degree in Early Childhood Education for Transfer (AS-T)

#### **DESCRIPTION**

Early Childhood Education is the study of the physical, socio-emotional and cognitive growth and development of the child from conception through adolescence. The purpose of this major is to provide a sound academic program in child development and to prepare students to work with children and families in a variety of school and community settings. Early Childhood Education students pursue careers in day care and preschool teaching and administration; parent education; elementary school teaching; community college teaching; or work with a variety of counseling, social service and community agencies.

The Associate in Science in Early Childhood Education for Transfer is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree are quaranteed admission to the CSU system, but not to a particular campus or major.

#### PROGRAM LEARNING OUTCOMES

- 1. Exhibit grounding in a child development knowledge base.
- 2. Demonstrate knowledge in building relationships with children, family and community.
- 3. Observe, document, and assess to support young children and families.
- 4. Demonstrate developmentally effective approaches to create positive relationships and supportive interactions as the foundation in working with children and families from diverse societies.
- 5. Use content knowledge to build meaningful curriculum.
- 6. Demonstrate Professionalism.

#### ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

#### CAREER OPPORTUNITIES

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

- Adoption Counselor
- Before and After School Teacher/Director
- · Child Life Specialist
- Community College Instructor
- · Counselor Career,
- Counselor Community
- · Counselor Marriage/Family/Child
- · Counselor School
- Early Childhood Special Education Specialist
- Elementary School Teacher
- · Child Care Teacher/Director
- Infant Day Care Teacher/Director
- Parent Education Instructor
- Pediatric Psychologist
- Preschool Teacher/Administrator
- Resource and Referral Coordinator
- Social Worker

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

# **EARLY CHILDHOOD EDUCATION (For Transfer)**

#### **ASSOCIATE DEGREE PROGRAM**

#### **EARLY CHILDHOOD EDUCATION**

Associate in Science Degree in Early Childhood Education for Transfer (AS-T) – 25.0 units.

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

#### REQUIREMENTS FOR THE DEGREE

- I. Units/GPA Must complete a maximum of 60 CSU-transferable semester units with a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. NOTE: While a minimum of 2.0 is required for admission, some institutions and majors may require a higher GPA. Please consult with a counselor for more information.
- II. General Education Must complete one of the following general education transfer patterns:
   A. California State University General Education Breadth Pattern (CSU GE-B) 39 units minimum
   B. Intersegmental General Education Transfer Curriculum (IGETC) 37 units minimum
- III. Associate Degree Major Core 25.0 units

CDEV	100	Principles & Practices of Teaching Young Children	3.0
CDEV	101	Health, Safety and Nutrition	3.0
CDEV	103	Children, Family and Community	3.0
CDEV/PSY	104	Child Growth and Development	3.0
CDEV	105	Introduction to Curriculum	3.0
CDEV	106	Observation and Assessment	3.0
CDEV	107	Teaching in a Diverse Society	3.0
CDEV	200	Practicum-Field Experience	4.0

Total Major Units	25.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	
Total Maximum Units:	60.0

## **ELECTRICAL TECHNOLOGY**

#### **DEGREES, CERTIFICATES AND AWARDS**

Associate in Science Degree (A.S.) Certificate of Achievement Specialization Certificates in Electrical Wiring, Electronics, and Solar Energy

#### **DESCRIPTION**

The Electrical Technology program offers an Associate in Science degree, Certificate of Achievement and Specialization Certificates that are designed to provide students with the comprehensive understanding and manipulative skills, technical knowledge, and related trade information required to become technicians or operators in industrial technology and energy related industries or light manufacturing equipment.

This program will allow students to comply with the necessary requirements for certification up to Grade I level. Once the student becomes a state certified operator, he or she will qualify to seek employment in the industrial technology disciplines anywhere in the State. Imperial Valley College has partial program certification from the Division of Labor Standards for Electrician Certification.

#### PROGRAM LEARNING OUTCOMES

- 1. Demonstrate knowledge of OSH safety practices required installation and repairs of electrical
- 2. Use written and verbal communication skills to related trade and technical information for blueprint.
- 3. Understand and demonstrate the necessary skills to become employed in the electrical field.

#### ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

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

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

#### CAREER OPPORTUNITIES

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

- Electrical Installer
- Commercial Electrical Installer
- Electrical Maintenance Technician
- Flectrician
- Industrial Maintenance Electrician
- Environmental Engineer

- Solar Engineer
- Electrical Engineer
- Environmental Scientist
- Environmental Engineer

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu – CSU System Information

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

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

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

#### **FINANCIAL AID**

# **ELECTRICAL TECHNOLOGY**

## **ASSOCIATE DEGREE PROGRAM**

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

Twenty (20.0) units required for the major.

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

## I. Required courses for the major (20.0 units).

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

Total Major Units 20.0

## **CERTIFICATE PROGRAM**

## **ELECTRICAL TECHNOLOGY CERTIFICATE**

Twenty (20.0) units required for the certificate.

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

## I. Required courses for the certificate (20.0 units).

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

Total Certificate Units 20.0

## **ELECTRICAL TECHNOLOGY**

#### **SPECIALIZATION CERTIFICATES**

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

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

#### ELECTRICAL TECHNOLOGY: ELECTRICAL WIRING SPECIALIZATION - Major Plus 9.0 Units

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

#### **PROGRAM LEARNING OUTCOMES**

- 1. Service and repair electrical appliances, overprotection devices.
- 2. Safety procedures to install and calculate capacities for light system, motors and transformers.
- 3. Internship.

#### The major plus nine (9.0) additional units in Electrical Wiring course work.

Total Certificate Units:				29.0
Electrical Technology: Electrical Wiring Specialization Units				9.0
Total Major Units			20.0	
	WE	220	Internship	1.0
	EWIR	135	Electrical Equipment & Special Conditions	4.0
	EWIR	125	Electrical Feeder Services and Circuits	4.0

## ELECTRICAL TECHNOLOGY: ELECTRONICS SPECIALIZATION - Major Plus 7.0 Units

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

### **PROGRAM LEARNING OUTCOMES**

ELTR

- 1. Assembly Electronic Devices with Instrumentation Circuits.
- 2. Identify logic circuits used on computer and audiovisual equipment.
- 3. Take internship opportunities for work experience and job placement.

## The major plus seven (7.0) additional units in Electronics course work.

ELTR	240	Digital Logic Circuits	3.0
WE	220	Internship	1.0
Total Major Unit	S		20.0
Electrical Technology: Electronics Specialization Units			7.0
Total Certificate Units:			27.0

**Digital Instrumentation Measurements** 

3.0

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## **ELECTRICAL TRADES**

## **DEGREES, CERTIFICATES AND AWARDS**

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

#### DESCRIPTION

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



#### PROGRAM LEARNING OUTCOMES

- 1. Demonstrate knowledge of OSH standard safety procedures appropriate to the power utility industry. In addition, the student will use mathematical functions pertaining to 0 percentages, fractions, decimals, weights, measurements, algebraic equations, and fundamentals of geometry applicable to electrical and electronics.
- 2. Describe the functions and characteristic of transmission and distribution system and their components which consist of high voltage AC power, electrical diagrams, safety in the workplace, and a section on rope, rigging and hand signals.
- 3. Demonstrate and understand the basic introductio0n to framing, setting, guying poles, installation of conductors and grounds and the laying out and constructing of an underground line system.

#### ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

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

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

#### **CAREER OPPORTUNITIES**

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

- · Applications Engineer
- Apprentice
- · Biomedical Engineer · Communication Engineer
- · Controls Engineer
- · Computer Engineer
- Design Engineer
- · Electrical Apprentice
- Electronic Engineer
- Generation Apprentice
- Mechanic Apprentice
- · Lineman Apprentice
- Meter Technician Apprentice
- · Project Engineer
- Product Engineer
- Product Design Engineer
- Research Engineer
- Power Engineer • Test Engineer
- Substation Apprentice
- Systems Engineer
- ADA/Telecommunications Apprentice Systems Protection Technician Apprentice

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

## **ELECTRICAL TRADES**

## **ASSOCIATE DEGREE PROGRAM**

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

Nineteen (19.0) units required for the major.

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

## I. Required courses for the major (19.0 units)

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

Total Major Units 19.0

## **CERTIFICATE PROGRAM**

#### **ELECTRICAL TRADES CERTIFICATE**

Nineteen (16.0) units required for the certificate.

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

## I. Required courses for the certificate (19.0 units)

ELTT	101	Electrical Trades I	4.0
ELTT	102	Electrical Trades II	4.0
ELTT	103	Electrical Trades III	4.0
ELTT	104	Electrical Trades IV	4.0

Total Certificate Units 16.0

# **ELEMENTARY TEACHER EDUCATION (For Transfer)**

#### **DEGREES, CERTIFICATES AND AWARDS**

Associate in Arts Degree in Elementary Teacher Education for Transfer (AA-T)

#### DESCRIPTION

The Associate in Arts in Elementary Teacher Education for Transfer Degree will provide the foundational knowledge to students who want to earn a Baccalaureate Degree in Liberal Studies and Integrated Teacher Education Programs. This major will provide an education experience which prepares students to think critically, write clearly and effectively, analyze evidence, and appreciate the differences between subject areas.

The Associate in Arts for Transfer (AA-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

#### PROGRAM LEARNING OUTCOMES

- 1. Students will understand the historical context of elementary education, including its relationship to contemporary society and culture.
- 2. Students will develop a comprehensive professional portfolio for the teaching profession.

#### ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System

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

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

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

#### **CAREER OPPORTUNITIES**

The Elementary Teacher Education major is specifically designed to prepare students in the multiple disciplines that teachers in the kindergarten through middle school grades must have studied. Thus it is framed for students who intend to become teachers in K-8 schools and is not recommended as a general major for those who wish to pursue a variety of career fields other than teaching.

• Elementary School Teacher Middle School Teacher

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

#### FINANCIAL AID

# **ELEMENTARY TEACHER EDUCATION (For Transfer)**

#### **ASSOCIATE DEGREE PROGRAM**

#### **ELEMENTARY TEACHER EDUCATION**

Associate in Arts Degree in Elementary Teacher Education for Transfer (AA-T)

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

#### REQUIREMENTS FOR THE DEGREE

- I. Units/GPA Must complete a maximum of 60 CSU-transferable semester units with a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. NOTE: While a minimum of 2.0 is required for admission, some institutions and majors may require a higher GPA. Please consult with a counselor for more information.
- II. General Education Must complete one of the following general education transfer patterns:
   A. California State University General Education Breadth Pattern (CSU GE-B) 39 units minimum
   B. Intersegmental General Education Transfer Curriculum (IGETC) 37 units minimum
- III. Forty-eight to Sixty (48-60) units required for the major.

Required for the Major (42 units)				
BIOL	100	Principles of Biological Science	4.0	
CDEV/PSY	104	Child Growth and Development	3.0	
COMM	100	Oral Communication	3.0	
EDUC	200	Introduction to Elementary Classroom Teaching	3.0	
ENGL	102	Introduction to Literature	3.0	
ENGL	110	Composition and Reading	4.0	
GEOG	108	World Regional Geography	3.0	
GEOL	100	General Geology	4.0	
GEOL	110	Earth and Space Science	3.0	
HIST	100	Early World History	3.0	
HIST	120	United States History: Prehistory to Reconstruction	3.0	
MATH	110	Number Systems in Elementary Mathematics	3.0	
POLS	102	American Government and Politics	3.0	

#### List A: Select one course (3 units)

ENGL	201	Advanced Composition	3.0
READ	111	Reading IV: Analytical and Critical Reading	3.0

#### List B: Select one course (3 units)

ART	102	History of Art II	3.0
MUS	102	Introduction to Music Literature and Listening	3.0
THEA	100	Introduction to Theatre	3.0

### List C: (0-12 additional units)

HE	102	Health Education	3.0
MATH	112	Geometry in Elementary Mathematics	3.0
MATH	114	Children's Mathematical Thinking	1.0
MUS	100	Introduction to Music	3.0
PE	211	Physical Education in the Elementary School	3.0

Total Maximum Units:	60.0
Electives (as needed to reach 60 CSU transferable units)	
CSU-GE or IGETC Pattern	37.0-39.0
Total Major Units	48.0-60.0

## **EMERGENCY MEDICAL SERVICES**

#### **DEGREES. CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

The Associate's Degree and Certificate of Achievement in Emergency Medical Services prepares the student for licensure as a Paramedic (EMT-P) and to care for the sick and injured at the scene of an emergency and/or during transport to a healthcare facility. Acceptance into the program requires successful completion of the application process, high school diploma or GED, approval by the EMS Faculty Coordinator and the EMS Medical Director, current EMT certificate with at least one (1) year experience, current American Heart Association BLS/CPR certification, and for the applicant to be at least 18 years of age prior to any clinical experience. Contact the Nursing and Allied Health Department for more specifics



## **PROGRAM LEARNING OUTCOMES**

- 1. Students meet or exceed pass rates set for national licensing exam (National Registry).
- 2. Students meet or exceed pass rates set for national licensing skills exam (National Registry).
- 3. Students meet the minimal certification standards for ACLS, PALS, and BLS Instructor.

#### ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

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

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

#### **CAREER OPPORTUNITIES**

The Emergency Medical Services Associate Degree and/or Certificate of Achievement prepares the student to apply for and qualify for licensure as a Paramedic (EPT-P) and to care for the sick and injured at the scene of an emergency and/or during transport to a healthcare facility.

Paramedic

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu – CSU System Information

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

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

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

#### **FINANCIAL AID**

## **EMERGENCY MEDICAL SERVICES**

#### ASSOCIATE DEGREE PROGRAM

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

Thirty-nine and one-half (39.5) units are required for this major.

The Associate's Degree in emergency medical services prepares the student for licensure as a Paramedic (EMT-P) and to care for the sick and injured at the scene of an emergency and/or during transport to a healthcare facility. Acceptance into the program requires: successful completion of the application process, high school diploma or GED, approval by the EMS Faculty Coordinator and the EMS Medical Director, current EMT certificate with at least one (1) year experience, current American Heart Association BLS/CPR certification, and for the applicant to be at least 18 years of age prior to any clinical experience. Contact the Nursing and Allied Health Department for more specifics.

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

#### I. Prerequisites for the major (7.5 units)

EMT	105	Emer. Medical Technician I (or state certification)	7.5
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#### II. Required courses for the major (39.5 units)

<b>EMTP</b>	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
<b>EMTP</b>	225	EMT- Paramedic Clinical 1	3.5
<b>EMTP</b>	235	EMT- Paramedic Field 1	6.5
<b>EMTP</b>	245	EMT- Paramedic Field 2	5.5

**Total Major Units** 39.5

#### **CERTIFICATE PROGRAM**

### **EMERGENCY MEDICAL SERVICES CERTIFICATE**

Thirty-nine and one-half (39.5) units required for the certificate.

The certificate program prepares the student for licensure as a Paramedic (EMT-P) and to care for the sick and injured at the scene of an emergency and/or during transport to a healthcare facility. Acceptance into the program requires successful completion of the application process, high school diploma or GED, approval by the EMS Faculty Coordinator and the EMS Medical Director, current certification as an EMT certificate with at least one (1) year experience, current American Heart Association BLS/CPR certification, and for the applicant to be at least 18 years of age prior to any clinical experience. Contact the Nursing and Allied Health Department for more specifics.

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

#### I. Prerequisites for the major (7.5 units) Emor Modical Tochnician I (or state cortification)

EMT	105	Emer. Medical Technician I (or state certification)	7.5
Required c	ourses foi	the major (39.5 units)	
EMTD	200	Introduction to Advanced Probacnital Cara - Paramedic	ο ο

EMILL	200	introduction to Advanced Prenospital Care - Paramedic	9.0
<b>EMTP</b>	202	Trauma Emergencies - Paramedic	3.5
EMTP	204	Medical Emergencies - Paramedic	6.0
<b>EMTP</b>	206	Emergency Medical Services Operations - Paramedic	5.5
<b>EMTP</b>	225	EMT- Paramedic Clinical 1	3.5
<b>EMTP</b>	235	EMT- Paramedic Field 1	6.5
EMTP	245	EMT- Paramedic Field 2	5.5

**Total Certificate Units** 39.5

II.

## ENERGY EFFICIENCY TECHNOLOGY

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

The Energy Efficiency Technology Associate in Science Degree and Certificate are designed to provide instruction in manipulative skills, technical knowledge, and technical information from the Building Performance Institute, which will prepare the student for employment in energy efficiency, home performance and energy auditing with emphasis in green building retrofits. The course work for the associate degree also emphasizes subject areas that are significant to the construction worker such as building sciences, environmental sciences, and the development of analytical and communication skills through the general education requirements.



#### PROGRAM LEARNING OUTCOMES

- 1. Calculate the quantities of air leakage in cubic feet per minute using the following formula.
- 2. Create a reliable cost estimate for insulating an attic with loose fill insulation based on square footage.
- 3. Students will perform a duct blaster test to determine leakage of a system.

#### ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

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

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

### **CAREER OPPORTUNITIES**

Of the career opportunities identified some will usually require the completion of degree requirements at 4-year colleges and universities. Green Careers also exist in fields such as Hydrology (Water), Solar, Geo-Science, Ecology, Wind Energy, Infrastructure/Green Building, Atmospheric Science and Geothermal.

- Green Architect
- · Energy Auditor/Designer
- Sales

- Business Development
- Installer · Solar Energy Engineer
- Field Services Technician Finance

- Construction Technician
- Manager
- Engineering
- Marketing
- Energy Optimization Specialist Energy & Environmental Specialist
- Energy and Utilities Consultant

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

### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

# **ENERGY EFFICIENCY TECHNOLOGY**

## **ASSOCIATE DEGREE PROGRAM**

## **ENERGY EFFICIENCY TECHNOLOGY MAJOR - A.S. DEGREE**

Twenty-four (24.0) units are required for this major.

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

## I. Required courses for the major (24.0 units)

BLDC	101	Safety Standards (Cal/OSHA) 30-Hour Cards	3.0
BLDC	110	Construction Blueprints, Specifications, Measurements and Codes	3.0
BLDC	115	Energy Fundamentals	3.0
BLDC	155	Solar Thermal and Water Efficiency	3.0
BLDC	170	Essentials of Efficient Green Construction	3.0
BLDC	175	Home Performance Retrofits	3.0
ENVS/A	G 110	Environmental Science	3.0
RNEW	150	Solar Energy Systems PV1	3.0

Total Major Units 24.0

#### **CERTIFICATE PROGRAM**

## **ENERGY EFFICIENCY TECHNOLOGY CERTIFICATE**

Twenty-four (24.0) units are required for this certificate.

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

## I. Required courses for the certificate (24.0 units)

BLDC	101	Safety Standards (Cal/OSHA) 30-Hour Cards	3.0
BLDC	110	Construction Blueprints, Specifications, Measurements and Codes	3.0
BLDC	115	Energy Fundamentals	3.0
BLDC	155	Solar Thermal and Water Efficiency	3.0
BLDC	170	Essentials of Efficient Green Construction	3.0
BLDC	175	Home Performance Retrofits	3.0
ENVS/AC	G 110	Environmental Science	3.0
RNEW	150	Solar Energy Systems PV1	3.0

Total Certificate Units 24.0

# **ENGLISH (For Transfer)**

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

English is an academic discipline focusing on the development of language skills through composition, critical thinking, and the study of literature of the English language and of literature in translation as it bears upon British or American literature. It also embraces the study of linguistics, expository and creative writing and critical and analytical reading. A major in English equips the student with a wide variety of intellectual skills and correlated career opportunities.

The Associate in Arts for Transfer (AA-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

#### **PROGRAM LEARNING OUTCOMES**

- 1. Demonstrate command of rules regarding plagiarism and academic ethics.
- 2. Explicate and evaluate textual material in literature and rhetoric.
- 3. Produce an effective research paper using logical reasoning and analysis.

#### **ASSOCIATE DEGREE PROGRAM (For Transfer)**

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

#### **CAREER OPPORTUNITIES**

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

- Advertising Researcher
- Civil Servant
- Technical Writer
- Contract Specialist
- Journalist
- Business Administrator
- Diplomat
- Information Specialist
- Interpreter Librarian
- Methods Analyst

- Public Relations Editor/Evaluator
- Insurance Examiner
- Lawver
- Writer
- Lexicographer
- Manager
- Program Developer
- Publisher
- Teacher
- Writing Consultant

- · Advertising Person
- Arts Program Administrator
- Business Administrator
- Columnist/Journalist
- Creative Writer
- Drama/Film Critic
- Film/TV Scriptwriter
- Legislative Assistant
- Public Relations Person
- Researcher

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu – CSU System Information

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

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

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

## **FINANCIAL AID**

# **ENGLISH (For Transfer)**

#### **ASSOCIATE DEGREE PROGRAM**

#### **ENGLISH**

Associate in Arts Degree in English for Transfer (AA-T) – 18.0 units

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

#### REQUIREMENTS FOR THE DEGREE

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

  A. California State University General Education Breadth Pattern (CSU GE-B) 39 units minimum
  - B. Intersegmental General Education Transfer Curriculum (IGETC) 37 units minimum
- III. Eighteen (18) units required for the major.

A. Required for the Majo	ne Maior	for the	uired	Rec	A.
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ENGL	102	Introduction to Literature	3.0
ENGL	201	Advanced Composition	3.0
B. Sele	ct six (6) units from	n:	6.0
ENGL	220	Survey of American Literature I (3.0)	

LIVOL	220	Julycy of Afficiation Literature 1 (3.0)
ENGL	221	Survey of American Literature II (3.0)
ENGL	222	Survey of World Literature (3.0)
ENGL	223	Survey of World Literature (3.0)
ENGL	224	Survey of British Literature I (3.0)
ENGL	225	Survey of British Literature II (3.0)

#### C. Select three (3) units from:

3.0

\*Any course from Section B (above) not already used or any English course that has articulation as lower division preparation for the English major at a CSU.

ENGL	226	Introduction to Mythology (3.0)

or

HUM 226 Introduction to Mythology (3.0)

ENGL 250 Creative Writing (3.0)

#### D. Select a minimum of three (3) units from:

3.0

\*Any course from Section B or C (above) not already used, any CSU transferable English course, any language courses other than English which is articulated to fulfill CSU GE Area C, or any CSU transferable literature course offered in another department. Foreign Lanugage - See Transfer Institution

ROZ	260	Business Communications (3.0)
ENGL	270	Introduction to Linguistics (3.0)
	220	Introduction to Film History and

FILM 230 Introduction to Film History and Criticism (3.0)

HUM 100 Intro to the Humanities (3.0)
THEA 100 Introduction to Theatre (3.0)

Total Major Units 18.0 CSU-GE or IGETC Pattern 37.0-39.0

Electives (as needed to reach 60 CSU transferable units)

Total Maximum Units:

60.0

## FIRE TECHNOLOGY

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

Fire Technology involves the study of fire behavior, protection and control techniques, including the understanding of the environment and ecology systems involved. The Fire Technology program is designed to prepare students for entry-level status in public or private fire protection agencies, to survey career options and opportunities, and to upgrade fire personnel.



#### **PROGRAM LEARNING OUTCOMES**

- 1. Students will be able to apply emergency incident management strategies in relationship to incident command systems in public and private fire protection careers.
- 2. Students will demonstrate management concepts and practices including decision making, leader styles, personnel evaluations & counseling techniques. Assessment: Exams and reports for FIRE 229.
- 3. Demonstrate knowledge of the different types of non-water based fire suppression systems and how each is used to extinguish fire.

#### **ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS**

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

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

#### **CAREER OPPORTUNITIES**

- · City and County Fire Department Personnel
- Forestry Fire Control

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

## **FIRE TECHNOLOGY**

### ASSOCIATE DEGREE PROGRAM

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

Thirty-three (33.0) units are required for this major.

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

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

#### I. Required courses for the major (18.0 units)

FIRE	100	Fire Protection Organization	3.0
FIRE	101	Fire Prevention Technology	3.0
FIRE	102	Fire Protection Equipment & Systems	3.0
FIRE	103	Building Construction for the Fire Protection	3.0
FIRE	104	Fire Behavior and Combustion	3.0
FIRE	108	Fire & Emergency Services Safety and Survival	3.0

## II. Select 15.0 units from the following acceptable courses for the major

AJ	108*	Public Safety Report Writing (3.0)
CIS	101	Introduction to Information Systems (3.0)
EMT*10	5*	Emergency Medical Technician I (7.5)
FIRE	109*	Hazardous Materials 1st Responder (2.0)
FIRE	220**	Fire Apparatus 1A (2.5)
FIRE	221**	Fire Apparatus 1B (2.5)
FIRE	222**	Fire Investigation 1A (2.5)
FIRE	223**	Fire Investigation 1B (2.5)
FIRE	231**	Incident Command System (ICS 300) (1.5)
FIRE	240**	Training Instructor 1A (1.5)

<sup>\*</sup> Recommended – AJ 108, EMT 105, and FIRE 109

Total Major Units 33.0

<sup>\*\*</sup> FOR FIRE 220 – 242: Core courses required. Fire Fighter II and/or experience requirement as mandated by State Fire Training Course Information and Required Materials Manual, California Department of Forestry and Fire Protection, May 2008.

## **FIRE TECHNOLOGY**

## **CERTIFICATE PROGRAM**

#### FIRE TECHNOLOGY CERTIFICATE

Thirty-three (33.0) units are required for this certificate.

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

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

#### I. Required courses for the certificate (18.0 units)

	FIRE	100	Fire Protection Organization	3.0
	FIRE	101	Fire Prevention Technology	3.0
	FIRE	102	Fire Protection Equipment & Systems	3.0
	FIRE	103	Building Construction for the Fire Protection	3.0
	FIRE	104	Fire Behavior and Combustion	3.0
	FIRE	108	Fire & Emergency Services Safety and Survival	3.0
II.	Select 1	15.0 units 1	from the following acceptable courses for the certificate	
	AJ	108*	Public Safety Report Writing	3.0
	CIS	101	Introduction to Information Systems	3.0
	EMT*	105*	Emergency Medical Technician I	7.5
	FIRE	109*	Hazardous Materials 1st Responder	2.0
	FIRE	220**	Fire Apparatus 1A	2.5
	FIRE	221**	Fire Apparatus 1B	2.5
	FIRE	222**	Fire Investigation 1A	2.5
	FIRE	223**	Fire Investigation 1B	2.5
	FIRE	231**	Incident Command System (ICS 300)	1.5
	FIRE	240**	Training Instructor 1A	1.5

Recommended – AJ 108, EMT 105, and FIRE 109

**Total Certificate Units** 33.0

<sup>\*\*</sup> FOR FIRE 220 – 242: Core courses required. Fire Fighter II and/or experience requirement as mandated by State Fire Training Course Information and Required Materials Manual, California Department of Forestry and Fire Protection, May 2008.

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## FIREFIGHTER I

#### **DEGREES, CERTIFICATES AND AWARDS**

Certificate of Achievement

#### **DESCRIPTION**

The Firefighter I Certificate of Achievement program will cover the principles, precedures, and techniques of firefighting and rescue. Technical and manipulative skills and concepts of fire control, fire behavior, tactics and strategy, and emergency management will be reviewed and put into practice during this program. The student will be trained according to the standards of the Office of State Fire Marshall (OSFM) and National Fire Protection Association (NFPA). Students completing this certificate program will be qualified to test for employment with agencies and departments hiring entry level firefighters.



## **PROGRAM LEARNING OUTCOMES**

- 1. Students will demonstrate knowledge and appropriate use of fire equipment for a given firefighting scenario.
- 2. Students will demonstrate appropriate selection and implementation of firefighting methods and application of the Incident Command and Emergency Management Systems.
- 3. Students will demonstrate knowledge of the Unified Command system and use of its branches and divisions.

### **CERTIFICATE OF ACHIEVEMENT PROGRAM**

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

#### **FINANCIAL AID**

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

## CAREER OPPORTUNITIES

- City and County Fire Department Personnel
- Forestry Fire Control

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

## **FIREFIGHTER I**

## **CERTIFICATE PROGRAM**

#### FIREFIGHTER I CERTIFICATE

Twenty-two and one-half (22.5) units required for the certificate.

Successful completion of this certificate will meet the educational requirements for a California State FireMarshall Firefighter I Certificate. Upon completion of the certificate program the candidate is required to be affiliated with a fire agency for one year of parttime/volunteer or 6 months of full-time work experience as a firefighter to meet the requirement of work experience. The candidate's work experience must be verified by the agency's Fire Chief with a written letter to the California State Fire Marshall.

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

## I. Required for the certificate (22.5 units)

FIRE	140	Fire - First Responders	9.5
FIRE	142	Firefighter Academy 1	10.0
FIRE	144	Firefighter Academy 2	3.0

Total Certificate Units 22.5

## **FRENCH**

#### **DEGREES, CERTIFICATES AND AWARDS**

Associate in Art Degree (A.A.)

#### **DESCRIPTION**

The French program helps prepare its majors and minors for careers not only in teaching but in many other fields as well, such as business, journalism and government service. To that end it offers courses that enable students to grow intellectually and to live and work successfully in areas where the French language is spoken.

#### **PROGRAM LEARNING OUTCOMES**

- 1. Acquire the ability to use French for oral understanding, speaking, reading and writing.
- 2. Aquire knowledge about French culture.

#### ASSOCIATE DEGREE PROGRAM

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### CAREER OPPORTUNITIES

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

Trade and Commerce

Interpreter/Translator

Banking Representative

• Buyer/Sales Representative

• Foreign/Diplomatic Service

Export/Import

- Airlines Personnel
- Travel Industry
- Media Personnel
- Foreign Correspondent
- Language Teacher • Bilingual/Foreign Secretary
- Public Relations
- U.S. Immigration/Customs
- International Business Personnel
- · Foreign Publications/Textbook Editor

• U.S. Information Agency

Peace Corps

Research Assistant

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

#### **FINANCIAL AID**

# **FRENCH**

## **ASSOCIATE DEGREE PROGRAM**

## FRENCH MAJOR - A.A. DEGREE

Twenty (20.0) units required for the major.

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

I. Required courses for the major (20.0 ur	iits)
--	-------

FREN	100	Elementary French I	5.0
FREN	110	Elementary French II	5.0
FREN	201	Intermediate French I	5.0
FREN	211	Intermediate French II	5.0

Total Major Units 20.0

## GENERAL SCIENCE

#### **DEGREES. CERTIFICATES AND AWARDS**

Associate in Science Degree (A.S.)

#### **DESCRIPTION**

The Associate of Science General Sciences degree emphasizes the role of science, scientific inquiry and technology in our world. Students will apply a problem solving strategy such as the scientific method or other systematic process of inquiry and recognize the contributions of science and technology in our world. This program provides a broad study in the fields of biological and physical sciences in preparation for transfer to a four-year program and continuation of studies in upper division science courses in fields of anthropology, astronomy, biology, chemistry, environmental science, geography, geology, engineering and physics.

The most reliable guide for appropriate course combinations in this major will be the catalog from the specific college to which the student will transfer. Please see a counselor for assistance.



- 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.

#### **CAREER OPPORTUNITIES**

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

Geographer

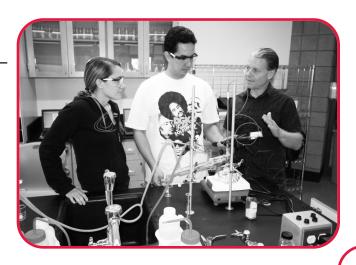
· And many more!

Geologist

Engineer

- Lab Technician Astronomer
- Biologist Field Writer
- Scientific Writer College Teacher • Elementary Teacher Chemist
- Secondary Teacher Environmentalist
- Scientific Researcher Physicist

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



## TRANSFER PREPARATION

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

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www.CSUMentor.edu – CSU System Information

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

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

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

#### **FINANCIAL AID**

# **GENERAL SCIENCE**

## **ASSOCIATE DEGREE PROGRAM**

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

Eighteen (18.0) units minimum required for this major.

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

## I. Required for the major (18.0 units)

AREA I – Se	elect one (1) co	urse from the following:	
ANTH	100	Physical Anthropology	3.0
BIOL	100	Principles of Biological Science	4.0
BIOL	120	General Zoology I	4.0
BIOL	122	General Zoology II	4.0
BIOL	140	General Botany	3.0
BIOL	150	Human Genetics	3.0
BIOL	180	General Biology: Molecules, Cells, and Genetics	4.0
BIOL	182	General Biology: Principles of Organismal Biology	4.0
AREA II – S	Select one (1) co	ourse from the following:	
ASTR	100	Principles of Astronomy	3.0
CHEM	100	Introduction to Chemistry	4.0
CHEM	160	Introduction to General, Organic & Biochemistry	5.0
ENVS/A	G110	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 remaini	ng courses from the following to reach eighteen (18.0) units:	
BIOL	200	Human Anatomy & Physiology I	4.0
BIOL	202	Human Anatomy & Physiology II	4.0
BIOL	204	Human Anatomy	4.0
BIOL	206	Human Physiology	4.0
BIOL	220	General Microbiology	5.0
CHEM	200	General Inorganic Chemistry I	5.0
CHEM	202	General Inorganic Chemistry II	5.0
CHEM	204	Organic Chemistry I	5.0
CHEM	206	Organic Chemistry II	5.0
CS	221	Introduction to Object Oriented Programming in Java	3.0
MATH	190	Pre-Calculus	5.0
MATH	192	Analytic Geometry and Calculus I	4.0
MATH	194	Analytic Geometry and Calculus II	4.0
MATH	210	Multivariable Calculus	4.0
PHYS	200	General Physics I	4.0
PHYS	202	General Physics II	4.0
PHYS	204	General Physics III	4.0
		·	

**Total Major Units** 

18.0

# **HISTORY (For Transfer)**

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### DESCRIPTION

History is the study of all human experience. It examines the people, institutions, ideas, and events of the past. The study of history contributes to cultural literacy, global awareness, and develops critical thinking skills, while helping students understand the present. Historical study provides a solid, fundamental preparation for careers in business, industry, government, and education. It also serves as excellent preparation for law school, Foreign Service, international work, urban affairs, and library science. History is an academic discipline offering both breadth and focus. While it can be valuable for those going into other professions, it also produces a person capable of handling many different jobs and positions where critical analytical skills are in demand.

The Associate in Arts for Transfer (AA-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

#### PROGRAM LEARNING OUTCOMES

- 1. Display knowledge of important societies, cultures, people, and events in the history of the world, describing the causes and impacts of key historical events.
- 2. Identify and describe how and why different people, societies, and cultures have interacted with each other and how those interactions changed and influenced human communities in different times and places.
- 3. Research, evaluate, analyze, and interpret different types of historical texts and information and effectively present conclusions and results in well-crafted oral and/or written forms.

#### ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

### **CAREER OPPORTUNITIES**

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

- Historian
- Museum Curator
- · Market Research

- Pre-Law/Lawyer
- State Park Historian Librarian
- Travel Historical Societies

- Foreign Service Teacher
- Businessperson
- Journalist

- Archivist
- Writer

- Researcher/Research Analyst
- Consultant
- Communications

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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www.CSUMentor.edu - CSU System Information

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

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

#### FINANCIAL AID

# **HISTORY (For Transfer)**

#### **ASSOCIATE DEGREE PROGRAM**

Associate in Arts Degree in History for Transfer (AA-T) - 18.0-20.0 units

#### REQUIREMENTS FOR THE DEGREE

- Units/GPA Must complete a maximum of 60 CSU-transferable semester units with a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. NOTE: While a minimum of 2.0 is required for admission, some institutions and majors may require a higher GPA. Please consult with a counselor for more information.
- II. **General Education** – Must complete one of the following general education transfer patterns: A. California State University General Education Breadth Pattern (CSU GE-B) - 39 units minimum
  - B. Intersegmental General Education Transfer Curriculum (IGETC) 37 units minimum
- III. Eighteen to Twenty (18-20) units required for the major.

Required	for the	Major	(6 units)	۱
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List A: Select two (6 units):			6.0
HIST	121	United States History: Reconstruction to Present	3.0
HIST	120	United States History: Prehistory to Reconstruction	3.0

#### List A: Select two (6 units):

Select one from: Early World History (3.0) HIST

OR

HIST Early Western Civilizations (3.0) 110

AND

Select one from:

HIST Modern Word History (3.0)

OR

HIST 111 Modern Western Civilizations (3.0)

List B: Select one course from each area (6-8 units): 6.0-8.0

Indians of North America (3.0)

Area 1 (3-5 units):

106

AIS/ANTH

AIS/ANTH	108	Indians of the Southwest (3.0)
ARAB	100	Elementary Arabic (5.0)
ART	106	Women Artists (3.0)
ENGL	223	Survey of World Literature (3.0)
ENGL/HUM	226	Introduction to Mythology (3.0)
FREN	100	Elementary French I (5.0)
EDENI	110	EL . E . L II /E O\

**FREN** 110 Elementary French II (5.0) **FREN** 201 Intermediate French I (5.0) Intermediate French II (5.0) **FREN** 211 **FREN** 230

Intermediate Conversational French I (3.0) **GEOG** 108 World Regional Geography (3.0)

HIST 100\* Early World History (3.0) HIST 101\* Modern World History (3.0) HIST/LAS Early Latin America (3.0) 130 HIST/LAS Modern Latin America (3.0) 131 History of Mexico (3.0) HIST/LAS 132 HIST 140 East Asian History (3.0)

HIST 150 Survey of African History (3.0) HIST Middle East from 600 (3.0) 160 HIST 220 Women in American History (3.0) HIST/LAS 225 Mexican American History (3.0) HUM/SPAN 262

Introduction to Chicano/a Studies (3.0) **POLS** Introduction to International Relations (3.0) 106 RELS 100 Religions of the Modern World (3.0)

**SPAN** Elementary Spanish I (5.0) 100 Elementary Spanish II (5.0) **SPAN** 110 **SPAN** Intermediate Spanish I (5.0) 200 **SPAN** 210 Intermediate Spanish II (5.0)

Bilingual Spanish I (5.0) **SPAN** 220 SPAN 221 Bilingual Spanish II (5.0) Bilingual Oral Spanish (3.0) **SPAN** 222

SPAN Introduction to Spanish American Literature (3.0) 225

# **HISTORY (For Transfer)**

Area 2 (3 units):			
ANTH	102	Cultural Anthropology (3.0)	
ANTH	120	Introduction to Archaeology (3.0)	
ART	100	History of Art I (3.0)	
ART	102	History of Art II (3.0)	
ART	104	History of Modern Art (3.0)	
ECON	101	Introduction to Microeconomics (3.0)	
ECON	102	Introduction to Macroeconomics (3.0)	
FILM	230	Introduction to Film History and Criticism (3.0)	
GEOG	102	Cultural Geography (3.0)	
HIST	100*	Early World History (3.0)	
HIST	101*	Modern World History (3.0)	
HIST	110*	Early Western Civilizations (3.0)	
HIST	111*	Modern Western Civilizations (3.0)	
HIST/LAS	130*	Early Latin America (3.0)	
HIST/LAS	131*	Modern Latin America (3.0)	
HIST/LAS	132*	History of Mexico (3.0)	
HIST	140*	East Asian History (3.0)	
HIST	150*	Survey of African History (3.0)	
HIST	160*	Middle East from 600 (3.0)	
HIST	220*	Women in American History (3.0)	
HIST	222	History of California (3.0)	
HIST/LAS	225*	Mexican American History (3.0)	
HUM	100	Introduction to Humanities (3.0)	
HUM/SPAN	262*	Introduction to Chicano/a Studies (3.0)	
PHIL	100	Introduction to Philosophy I (3.0)	
PHIL	102	Introduction to Philosophy II (3.0)	
POLS	100	Introduction to Political Science (3.0)	
PSY	101	Introduction to Psychology (3.0)	
SOC	101	Introduction to Sociology (3.0)	

\*If not used from List A or List B Area 1

Total Major Units CSU-GE or IGETC Pattern 18.0- 20.0 37.0-39.0

Electives (as needed to reach 60 CSU transferable units)

**Total Maximum Units:** 60.0 This Page Intentionally Left Blank

## **HUMANITIES**

#### **DEGREES, CERTIFICATES AND AWARDS**

Associate in Arts Degree (A.A.)

#### **DESCRIPTION**

The Associate of Arts degree in Humanities is an interdisciplinary program that integrates several different academic traditions. The program offers students a rare opportunity to discover the heritage of art, culture, and learning through lectures and readings of great texts; make connections between ideas in the past and issues in the present; and improve skills in critical reading, listening, writing, and discussion.

#### **PROGRAM LEARNING OUTCOMES**

- 1. Student will be able to think critically in reading about topics in philosophy, religion, art and music, thereby identifying problems.
- 2. Demonstrate an awareness of the impact of societal expectations and behaviors on individuals and cultures.
- 3. Analyze, discuss and debate the impact on the development of theory and cultural practices.

#### ASSOCIATE DEGREE PROGRAM

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

### **CAREER OPPORTUNITIES**

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

· Pre-Theology/Clergy

Publishing

Teaching

Theology

Travel

Writer

Public Relations

Banking

Businessperson

Communications

- Human Service Careers

- Law
- Consultant Counseling
- · Creative Writing
- Education
- Foreign Service Government
- Journalist
- Librarian
- Library Science
- · Literary Research
- Ministry
- Museum Work
- · Pre-Law/Lawyer

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

#### TRANSFER PREPARATION

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

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

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

#### **FINANCIAL AID**

# **HUMANITIES**

## **ASSOCIATE DEGREE PROGRAM**

#### **HUMANITIES MAJOR – A.A. DEGREE**

Twenty-four (24.0) units required for the major.

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

	ea for the	major (24.0 ui	iits)			
Α.	Three (3	3.0) units requi	red from the following:			
	HUM	100	Introduction to Humanities	3		
В.	Must se	lect six (6.0) ur	nits from the following:			
	ART	100*	History of Art I	3		
	ART	102*	History of Art II	3		
	ART	104*	History and Appreciation of Modern Art	:		
	ART	106*	Woman Artists			
C.	Must select six (6.0) units from the following:					
	ART	100*	History of Art I			
	ART	102*	History of Art II			
	ART	104*	History and Appreciation of Modern Art			
	ART	106*	Woman Artists			
	ART	110	Design			
	ART	120	Drawing I			
	ART	262	Gallery Display			
	MUS	100	Introduction to Music Foundations			
	MUS	102	Introduction to Music Literature and Listening			
	MUS	110	Beginning Musicianship			
	MUS	120	Beginning Harmony			
	MUS	156	College-Community Chorus			
	MUS	171	Chamber Orchestra			
	MUS	172	Community Band			
	MUS	175	Instrumental Ensemble			
	MUS	178	Symphony Orchestra			
D.	Must se	lect three (3.0)	units from the following:			
	HIST	110	Early Western Civilization			
	HIST	111	Modern Western Civilization			
	PHIL	100	Introduction to Philosophy I			
	PHIL	102	Introduction to Philosophy II			
	RELS	100	Religions of the Modern World			
E.	Must select six (6.0) units from the following:					
	AMSL	100	American Sign Language 1			
	AMSL	102	American Sign Language 2			
	COMM	100	Oral Communication			
	COMM	110	Intermediate Public Speaking			
	COMM	180	Argumentation and Debate			
	ENGL	102	Introduction to Literature			
	ENGL	222	Survey of World Literature			
	ENGL	223	Survey of World Literature			
	ENGL/HU		Introduction to Mythology			
	FILM	230	Introduction to Film History and Criticism			
	ENGL	250	Creative Writing			
	FREN	100	Elementary French I			
	FREN	110	Elementary French II			
	FREN	201	Intermediate French I			
	FREN	211	Intermediate French II			
	HUM/SPA		Introduction to Chicano/a Studies			
	SPAN	100	Elementary Spanish I			
	SPAN	110	Elementary Spanish II			
	SPAN	200	Intermediate Spanish I			
	SPAN	210	Intermediate Spanish II			
	SPAN	220	Bilingual Spanish I			
	SIMI	220	Dillingual Spanish II			

<sup>\*</sup> Courses designated with an asterisk may be counted in one area only.

SPAN

THEA

221

120

**Total Major Units** 24.0

Bilingual Spanish II

Fundamentals of Acting

5.0

3.0

# INTERSEGMENTAL GENERAL EDUCATION **TRANSFER CURRICULUM (IGETC)**

#### **DEGREES, CERTIFICATES AND AWARDS**

Certificate of Achievement

#### **DESCRIPTION**

Completion of ALL of the requirements in the Intersegmental General Education Transfer Curriculum (IGETC) will permit a student to transfer from a community college to a campus in either the California State University (CSU) or University of California (UC) system without the need, after transfer, to take additional lower-division general education courses to satisfy campus general education requirements.

IGETC is separated into six separate academic areas. Each area requires a specific unit/course requirement(s). A grade of "C" or higher is required for each course used to satisfy IGETC requirements. It is recommended IGETC be completed in its entirety prior to transfer. Students who do not complete the entire program before transfer could be subject to the general education requirements of the campus or college to which they transfer.

#### PROGRAM LEARNING OUTCOMES

1. See GE Program Outcomes/Course Alignment Grid at www.imperial.edu/faculty-and-staff/ campus-committess/student-learning-outcomes/

## **CERTIFICATE OF ACHIEVEMENT PROGRAM**

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

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

#### TRANSFER PREPARATION

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

### **FINANCIAL AID**

# INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

#### **CERTIFICATE PROGRAM**

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) CERTIFICATE Students must complete a minimum of 37 units used to satisfy the IGETC requirements.

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

### INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) For specific course identifications that clear the IGETC requirements for each section, please see a Counselor for assistance

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AREA 1. ENGLISH COMMUNICATION CSU – Three Courses Required: One course each from Categories 1A, 1B and 1C. UC – Two Courses Required: One course each from Categories 1A and 1B. NAU – Three Courses Required: One course each from Categories 1A, 1B and 1C.	Minimum Units Required Per Area
1A: English Composition (3 semester/4.5 Quarter Units Minimum)	3
1B: Critical Thinking–English Composition (3 semester/4.5 Quarter Units Minimum)	3
1C: Oral Communication (3 semester/4.5 Quarter Units Minimum)	3
AREA 2. MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING One Course: 3 Semester/4.5 Quarter Units Minimum	
2A: Mathematical Concepts and Quantitative Reasoning	3
AREA 3. ARTS AND HUMANITIES – Nine (9) semester or 12/15 quarter units Three (3) courses, with at least one course from the Arts and one Course from the Humanities. The third course from either area.	
3A: Arts; 3B: Humanities+; and, 3A: Arts <u>or</u> 3B: Humanities+	9
AREA 4. SOCIAL AND BEHAVIORAL SCIENCES – Nine (9) semester or 12/15 quarter units Three (3) courses from at least two (2) academic areas.	9
AREA 5. PHYSICAL AND BIOLOGICAL SCIENCES – Minimum – 7/9 semester or 9/12 quarter units One Physical Science course and One Biological Science course with at least one lab course from either area to be included.	
5A Physical Science; 5B Biological Science (One course MUST have a laboratory component.)	7-9
AREA 6A: Language Other Than English (LOTE)	

Students transferring to UC are required to demonstrate competence (proficiency) in a language other than English equal to two years of high school study. Competence may be demonstrated through the following mechanism:

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.

**Total Certificate Units** 37.0 37.0 **Total Minimum Units:** 

NOTE - IGETC Certification: Earning this Certificate of Achievement will not replace the IGETC Certification document. The "certification" of IGETC is a separate process. The student must request IGETC Certification at the time he/she requests a final IVC transcript to be sent to the UC/CSU or other school he/she plans on attending.

<sup>1)</sup> Satisfactory completion of two years of high school coursework (US high school or high school in country where the language of instruction is English) in a language other than English, with a grade of "C" or better in each course. The two years must be in the same language.

<sup>3)</sup> Satisfactory completion, with "C" grades or better, of two years of formal schooling at the sixth grade-level or higher in an institution where the language of instruction is not English. Appropriate documentation must be presented to substantiate that the required coursework was completed. 4) Satisfactory score on the SAT II: Subject Test in languages other than English.

<sup>5)</sup> Satisfactory score, 3 or higher, in the College Board Advanced Placement examination in languages other than English.

NOTE: The student is advised to see a counselor for assistance determining the completion of the IGETC Language Other Than English AREA 6A requirement.

# KINESIOLOGY (For Transfer)

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

Kinesiology, also known as physical education, is both an activity curriculum and an academic area of study concerned with the physical and psychological aspects of human movement. Exercise, activity and sports are an important component in the development of well-rounded individuals interested in physical well-being and the productive use of leisure time.

The Associate in Arts in Kinesiology for Transfer (AA-T) is intended for students who plan to complete a bachelor's degree in a similarmajor at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major.

#### **PROGRAM LEARNING OUTCOMES**

- 1. Identify common injuries in the field of athletics and physical education, and then discuss short-term and long-term treatment plans.
- 2. List various occupations in the field of physical education and exercise science, and then sum marize the educational requirements for employment in each field.
- 3. Demonstrate skills needed to meet the minimal certification standards when performing first aid and CPR as required by either the American Red Cross (ARC) or American Heart Association
- 4. Demonstrate safe and effective exercise techniques, as well as improved fitness in the four areas of exercise principles (Cardio-respiratory Endurance, Muscular Strength and Endurance, Flexibility, and Body Composition).

## **ASSOCIATE DEGREE PROGRAM (For Transfer)**

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

#### **CAREER OPPORTUNITIES**

Virtually all two-year career programs in business or technology fields also require a solid foundation in mathematics. Many BA/BS level careers require extensive background in Mathematics.

- · Certified Athletic Trainer
- Referee
- Competitor
- Correctional Officer
- Teacher
- Exercise Test Technologist
- Recreationand Fitness Worker

• Amusement and Recreation Attendant

• Strength Conditioning Specialist

- 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
- Sports Information Director

• Physical Therapy Assistant

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

#### **FINANCIAL AID**

# **KINESIOLOGY (For Transfer)**

#### **ASSOCIATE DEGREE PROGRAM**

#### **KINESIOLOGY**

Associate in Arts Degree in Kinesiology for Transfer (AA-T) - 21.0-23.0

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

#### REQUIREMENTS FOR THE DEGREE

- I. Units/GPA Must complete a maximum of 60 CSU-transferable semester units with a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. NOTE: While a minimum of 2.0 is required for admission, some institutions and majors may require a higher GPA. Please consult with a counselor for more information.
- II. General Education Must complete one of the following general education transfer patterns:
  - A. California State University General Education Breadth Pattern (CSU GE-B) 39 units minimum
  - B. Intersegmental General Education Transfer Curriculum (IGETC) 37 units minimum
- III. Associate Degree Major Core 21.0-23.0 units

A. Req	uired for the Ma	jor (11.0) units	
PE	209	Introduction to Kinesiology	3.0
BIOL	204	Human Anatomy	4.0
BIOL	206	Human Physiology	4.0
B. Selec	ct a maximum of	fone (1) course from any three (3) of the following areas for a minimum of three units:	3.0
Aquation	cs:		
PE	121	Beginning to Intermediate Swimming (1.0)	
PE	142	Advanced Swimming (1.0)	
Fitness	:		
DE	104	Weight Training (1.0)	

PE	104	Weight Training (1.0)		
PE	106	Walking/Jogging Fitness (1.0)		
PE	111	Aerobics - Step (1.0)		
Individual Sports:				
PE	126 *	Tennis (1.0)		

 PE
 127 \*
 Tennis - Advanced (1.0)

 PE
 170 \*
 Beginning Bowling (1.0)

 PE
 171 \*
 Intermediate Bowling (1.0)

 PE
 172 \*
 Advanced Bowling (1.0)

### **Team Sports:**

PE

112

113

PE	120	Softball (1.0)
PE	126 *	Tennis (1.0)
PE	127 *	Tennis - Advanced (1.0)
PE	128	Volleyball (1.0)
PE	129	Volleyball - Advanced (1.0)
PE	143	Advanced Basketball - Men (1.0)
PE	144	Advanced Basketball - Women (1.0)
PE	170 *	Beginning Bowling (1.0)
PE	171 *	Intermediate Bowling (1.0)
PE	172 *	Advanced Bowling (1.0)

C. Select two courses (7.0-9.0) units from	7.0-9.0
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BIOL	100		Principles Of Biological Science (4	1.0)
CHEM	100		Introduction To Chemistry (4.0)	
CHEM	200		General Inorganic Chemistry I (5.	0)
HE	104		First Aid and CPR (3.0)	
MATH	119		Elementary Statistics (4.0)	
PHYS	200		General Physics I (4.0)	
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\*Courses designated with an asterisk may be counted in one area only.

Basketball - Men (1.0)

Basketball - Women (1.0)

Total Maximum Units:	60.0
Electives (as needed to reach 60 CSU transferable units)	
CSU-GE or IGETC Pattern	37.0-39.0
Total Major Units	21.0-23.0

## MATHEMATICS (For Transfer)

#### **DEGREES. CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

Mathematics, one of the oldest disciplines, is the study of order, structure, and form for the sciences and technology. Areas of mathematics include arithmetic, algebra, geometry, calculus, and various other theoretical and applied subjects. Mathematics is the foundation for many fields of study, including biological, physical, computer, behavioral, and social sciences, as well as engineering. Students may take mathematics courses to prepare for a mathematics major, to meet prerequisites in related disciplines, or to fulfill general education requirements.

The Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

### **PROGRAM LEARNING OUTCOMES**

- 1. Students will use mathematical reasoning to solve problems and a generalized problem solving process to work word problems.
- 2. Students will learn mathematics through modeling real-world situations.
- 3. Students will use appropriate technology to enhance their mathematical thinking and understanding, solve mathematical problems, and judge the reasonableness of their results.

#### ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

#### **CAREER OPPORTUNITIES**

Virtually all two-year career programs in business or technology fields also require a solid foundation in mathematics. Many BA/BS level careers require extensive background in Mathematics.

- Auditor
- Actuary
- Appraiser
- Assessor
- Biology/Agriculture
- Budget Analyst
- Business/Economics
- Casualty Rater Chemistry
- Controller
- Education

- Engineer
- Engineering Analyst
- Finance Director
- Financial Analyst
- Industry
- Investment Analyst
- Loan Officer
- · Marketing/Advertising

Please click on our Programs of Study link to view the information for each certificate program: http://www.imperial.edu/courses-and-programs/programs-of-study/

- Mathematician
- Mathematics
- Numerical Analyst

- Operations Analyst Opinion Polling
- Physical Science
- Public Health
- Sociology
- Statistician
- Systems Analyst
- Tax Collector
- Teacher
- Technical Writer

**Gainful Employment:** Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC.

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu – CSU System Information

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

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

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

#### **FINANCIAL AID**

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

## **MATHEMATICS (For Transfer)**

## **ASSOCIATE DEGREE PROGRAM**

#### **MATHEMATICS**

Associate in Science Degree in Mathematics for Transfer (AS-T) – 18.0-19.0 units

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

## REQUIREMENTS FOR THE DEGREE

- 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.

\*If not used for required courses under section B above.

Electives (as needed to reach 60 CSU transferable units)

A.	Red	uired	for	the	Ma	jor
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MATH	192	Analytic Geometry and Calculus I	4.0
MATH	194	Analytic Geometry and Calculus II	4.0
MATH	210	Multivariable Calculus	4.0
B. Selec	t one course from:		3.0
MATH	220	Elementary Differential Equations (3.0)	
MATH	230	Introduction to Linear Algebra with Applications (3.0)	
C. Selec	t one course from:		3.0-4.0
CIS	210	Programming in C++ (3.0)	
CS	221	Introduction to Object-Oriented Programming in Java (3.0)	
CS	231	Introduction to Data Structures (3.0)	
MATH	119	Elementary Statistics (4.0)	
MATH	220 *	Elementary Differential Equations (3.0)	
MATH	230 *	Introduction to Linear Algebra with Applications (3.0)	
MATH	240	Discrete Mathematics (3.0)	
PHYS	200	General Physics I (4.0)	

Total Major Units 18.0-19.0 CSU-GE or IGETC Pattern 37.0-39.0

Total Maximum Units: 60.0

## MEDICAL ASSISTANT

#### **DEGREES. CERTIFICATES AND AWARDS**

Certificate of Achievement

#### DESCRIPTION

The Medical Assistant program prepares people to work under the direction of physicians and registered nurses in medical offices and clinics. Students who complete the certificate in medical assistant will have the knowledge which will allow them to comprehend and communicate with medical professionals effectively and may provide enhanced employment opportunities in the field once they gain relevant job experience.

#### PROGRAM LEARNING OUTCOMES

- 1. Successfully complete front office/administrative externship with an employer assessment of student.
- 2. Successfully complete back office/clinical externship with an employer assessment of the student.
- 3. Successfully identify correct medical terminology used in patient care and procedures.

#### **CERTIFICATE OF ACHIEVEMENT PROGRAM**

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

#### **FINANCIAL AID**

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

#### CAREER OPPORTUNITIES

Medical Assistant

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

## **MEDICAL ASSISTANT**

## **CERTIFICATE OF ACHIEVEMENT**

## **MEDICAL ASSISTANT**

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

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

## I. Required courses for the certificate (26.5 units)

AHP	100	Medical Terminology	3.0
MA	070	Administrative Medical Assistant I	4.5
MA	072	Administrative Medical Assistant II	4.5
MA	074	Clinical Externship I	2.0
MA	080	Specimen Collection & Lab Procedures	3.5
MA	082	Exam Room Procedures	3.5
MA	084	Pharmacology & Administration	3.5
MA	086	Clinical Externship II	2.0

Total Certificate Units 26.5

## MUSIC (For Transfer)

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

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

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

The Associate in Arts for Transfer (AA-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

## **PROGRAM LEARNING OUTCOMES**

- 1. History: The student will know the stylistic and historic periods of music, and the music terminology needed to identify and understand all the elements of music.
- 2. Music Theory: The student will have knowledge of key signatures, evolution of harmonic development and fundamental keyboard understanding and skills.
- 3. Performing Skills: The student will gain performing skills in different types of repertoire from a variety of musical periods.

#### **ASSOCIATE DEGREE PROGRAM (For Transfer)**

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

#### CAREER OPPORTUNITIES

The music program is designed to promote interest and excellence in general musical knowledge and performance. The program also serves students interested in transferring to four year schools as well as offering preparation for careers in music. Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Conductor
- Soloist
- Composer
- Private Teaching
- Music Librarian Music Therapy
- Music Criticism
- Music Publishing

- 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

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



#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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www.CSUMentor.edu – CSU System Information

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

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

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

## **FINANCIAL AID**

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/

## **MUSIC (For Transfer)**

## **ASSOCIATE DEGREE PROGRAM**

Associate in Arts Degree in Music for Transfer (AA-T) – 24.0 units

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

#### REQUIREMENTS FOR THE DEGREE

- 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.
- **General Education** Must complete one of the following general education transfer patterns: II.
  - 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-Four (24) units required for the major. III.

## Required for the Major

		,	
MUS	110	Beginning Musicianship I	1.0
MUS	112	Beginning Musicianship II	1.0
MUS	120	Beginning Harmony I	3.0
MUS	122	Beginning Harmony II	3.0
MUS	210	Intermediate Musicianship I	1.0
MUS	212	Intermediate Musicianship II	1.0
MUS	220	Intermediate Harmony I	3.0
MUS	222	Intermediate Harmony II	3.0
MUS	163	Applied Music I	1.0
MUS	164	Applied Music II	1.0
MUS	165	Applied Music III	1.0
MUS	166	Applied Music IV	1.0

NOTE(S): MUS 110 and 120 must be taken concurrently and the sequence followed through MUS 212 and 222

#### Ensemble (4.0 units)

4.0

Students must sign up for one performance ensemble from the following list for each semester enrolled.

MIIC	156	Paginning Callage Charus (1.0)
MUS	156	Beginning College Chorus (1.0)
MUS	157	Intermediate College Chorus (1.0
MUS	171	Chamber Orchestra (1.0)
MUS	172	College-Community Band (1.0)
MUS	175	Instrumental Ensemble (1.0)
MUS	177	Stage Band (1.0)
MUS	178	Symphony Orchestra (1.0)

<sup>\*</sup>Credit for MUS 163-166 is obtained through "credit-by-exam." After certifying 15 hours of private studio instruction with an approved instructor, the student will perform live before a jury consisting of the studio instructor and at least one member of the IVC music department faculty (See Note 2). The literature performed must be from the department approved sequence of literature of equivalent difficulty. This exam will be taped. The grade will be recommended by the private instructor in concurrence with the IVC faculty member(s) serving on the jury, with the department head having the final determination in case of a dispute.

**Total Major Units** 24.0 CSU-GE or IGETC Pattern 37.0-39.0 Electives (as needed to reach 60 CSU transferable units) **Total Maximum Units:** 60.0

<sup>\*</sup>If the studio instructor is also an IVC music faculty member, no other is needed.

## **DEGREES, CERTIFICATES AND AWARDS**

Associate in Science Degree (A.S.) – Registered Nursing (R.N.) Associate in Science Degree (A.S.) – Licensed Vocational Nurse (L.V.N.) Certificate of Achievement - Licensed Vocational Nurse

## **DESCRIPTION**

The Division of Health and Public Safety offers programs leading to the associate degree in Registered Nursing (R.N.) and associate degree in Licensed Vocational Nursing (L.V.N) along with an Licensed Vocational Nursing (L.V.N.) certificate.

The **Registered Nursing** program is designed to provide the education necessary for licensure eligibility and practice as a Registered Nurse (R.N.). Acceptance into the program requires successful completion of all prerequisites and successful completion of the application and selection processes.

The Vocational Nursing Program is designed to provide the education necessary for licensure eligibility and practice as a Licensed Vocational Nurse (L.V.N.). Acceptance into the program required successful completion of all prerequisites and successful completion of the application and selection processes.

All required prerequisites and nursing courses must be completed with a grade of "C" or better. Contact the Nursing and Allied Health Department for more specifics.

LVN to RN Student - Advanced placement options are found in the Nursing Appendix at the end of the Imperial Valley College general catalog.

#### **PROGRAM LEARNING OUTCOMES**

#### Nursing - R.N. (Associate Degree)

- 1. Students meet or exceed pass rates set for national licensing exam (NCLEX-RN).
- 2. Student cohort "complete on-time" rate.
- 3. Students demonstrate comprehensive knowledge of registered nursing prior to exiting NURS 227.

#### Nursing - V.N. (Vocational)

- 1. Students meet or exceed pass rates set for national licensing exam (NCLEX-VN).
- 2. Student cohort "complete on-time" rate.
- 3. Students demonstrate comprehensive knowledge of vocational nursing prior to exiting VN 132.

#### **ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS**

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

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

#### **CAREER OPPORTUNITIES**

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

• Mental Health Nurse

Critical Care Nurse

• Extended Care Nurse

Traveling Nurse

• Physician's Office Nurse

• Clinics and Industry Nurse

- Registered Nurse (B.S.N.)
- Hospital Nurse
- Medical Nurse
- Surgical Nurse

- Emergency Room Nurse
- Operating Room Nurse
- Oncology Nurse • Rehabilitation Nurse
  - Community Health Nurse
- Pediatrics Nurse Home Health Nurse

Advanced Practice (M.S.) roles: Clinical Nurse Specialist, Educator, Nurse Practitioner, Case Manager, and School Nurse

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



## TRANSFER PREPARATION

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

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

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

#### **FINANCIAL AID**

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

www.imperial.edu/students/ financial-aid-and-scholarships/

#### **ASSOCIATE DEGREE PROGRAM**

## NURSING - ASSOCIATE DEGREE (R.N) MAJOR - A.S. DEGREE

#### **Admission Requirements**

#### Prerequisites for the major

• ENGL	110	Composition and Reading	4.0
<ul> <li>BIOL</li> </ul>	220	General Microbiology	5.0
<ul> <li>BIOL</li> </ul>	200	Human Anatomy & Physiology I	4.0
AND			
BIOL	202	Human Anatomy & Physiology II	4.0
<u>OR</u>			
BIOL	204	Human Anatomy	4.0
AND			
BIOL	206	Human Physiology	4.0
<ul> <li>SOC</li> </ul>	101	Introduction to Sociology	3.0
OR			
ANTH	102	Cultural Anthropology	3.0
<ul> <li>PSY</li> </ul>	204	Developmental Psychology: Conception to Death	3.0

- Math Competency: A score of 7006 or 2006 or higher on the ACCUPLACER™ College Level Mathematics test OR MATH 091 OR MATH 090 (Intermediate Algebra) OR an advanced level mathematics course with a grade of "C" or higher.
- Reading Competency: A placement score of 5010 or 3006 on the ACCUPLACER™ Reading Test OR ENGL 110 (Composition and Reading) OR ENGL 101 (Composition and Rhetoric) with a grade of "C" or higher.
- 2. TEAS Exam: Must pass exam at the predetermined minimum cut score (or higher) as set by the college and the State of California.
- 3. Background: Must pass a criminal background check as a requirement of the clinical agencies.
- 4. Drug Screen: Must pass a drug screen as defined by the Nursing Program as a requirement of the clinical agencies.
- American Heart BLSL/CPR Certification: Must be current.

#### **Additional Program Requirements**

#### **Degree Requirements**

<ul><li>COMM</li></ul>	100	Oral Communication	3.0
• PE	100	Lifetime Exercise Science	2.0
• PE		Activity Course	1.0
<ul> <li>Humaniti</li> </ul>	es Elective		3.0
American Institution Requirement			6.0

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

#### 3. **Registered Nursing Program Specific Courses:**

Semestei	r 1:		
NURS	107	Nursing Fundamentals	7.0
NURS	109	Pharmacology	1.0
Semester	2:		
NURS	123	Pharmacology II	1.5
NURS	127	Medical Surgical Nursing I	4.0
NURS	128	Nursing Care of the Childbearing Family	4.0
Semester	3:		
NURS	218	Nursing Care of the Childrearing Family	3.5
NURS	219	Psychiatric and Mental Health Nursing *	3.0
NURS	223	Medical Surgical and Geriatric Nursing	5.0
*NURS 21	9 may be taken sur	mmer before or after 3rd semester	
Semester	4:		
NURS	227	Medical-Surgical Nursing III/Preceptorship	8.0

<sup>\*\*</sup> Clinical experience may include a rotation outside of county.

**Total Nursing Units** 37.0

## **ASSOCIATE DEGREE PROGRAM**

#### NURSING - VOCATIONAL NURSING (V.N.) MAJOR - A.S. DEGREE

#### **Admission Requirements**

1. Prerequisites for	the major
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<ul> <li>AHP</li> </ul>	100	Medical Terminology	3.0
<ul> <li>BIOL</li> </ul>	200	Human Anatomy & Physiology I	4.0
AND			
BIOL	202	Human Anatomy & Physiology II	4.0
<u>OR</u>			
BIOL	204	Human Anatomy	4.0
AND			
BIOL	206	Human Physiology	4.0
<ul> <li>ENGL</li> </ul>	110	Composition and Reading	4.0
<ul> <li>PSY</li> </ul>	101	Introduction to Psychology	3.0

- **Background:** Must pass a criminal background check as a requirement of the clinical agencies. 2.
- 3. Drug Screen: Must pass a drug screen as defined by the Nursing Program as a requirement of the clinical agencies.
- American Heart BLSL/CPR Certification: Must be current. 4.

## **Additional Program Requirements**

## **Additional Degree Requirements**

aditional De	gree nequirements		
<ul><li>COMM</li></ul>	100	Oral Communication	3.0
• PE	100	Lifetime Exercise Science	2.0
• PE		Activity Course	1.0
Humanities Elective			3.0
<ul> <li>America</li> </ul>	n Institution Requirem	nent	6.0

#### **Progression Policy**

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

#### **Vocational Nursing Program Specific Courses:**

Semest	er 1:		
VN	110	Introduction to Client Care I	5.0
VN	112	Introduction to Client Care II	5.0
VN	114	Pharmacology I	1.5
VN	116	Patient Care Management & Critical Thinking	2.5
PSY	204	Developmental Psychology: Conception to Death	3.0
Semeste	er 2:		
VN	120	Maternity Cycle	5.5
VN	122	Common Health Problems I	5.5
VN	124	Pharmacology II	2.0
Semeste	r 3:		
VN	130	Common Health Problems II	5.5
VN	132	Common Health Problems III	5.5

**Total Nursing Units** 41.0

## **CERTIFICATE OF ACHIEVEMENT PROGRAM**

#### **NURSING - VOCATIONAL NURSING (V.N.) CERTIFICATE**

#### **Admission Requirements**

## 1. Prerequisites for the major

<ul> <li>AHP</li> </ul>	100	Medical Terminology	3.0
<ul> <li>BIOL</li> </ul>	200	Human Anatomy & Physiology I	4.0
AND			
BIOL	202	Human Anatomy & Physiology II	4.0
<u>OR</u>			
BIOL	204	Human Anatomy	4.0
AND			
BIOL	206	Human Physiology	4.0
<ul> <li>ENGL</li> </ul>	110	Composition and Reading	4.0
<ul> <li>PSY</li> </ul>	101	Introduction to Psychology	3.0

- 2. Background: Must pass a criminal background check as a requirement of the clinical agencies.
- 3. Drug Screen: Must pass a drug screen as defined by the Nursing Program as a requirement of the clinical agencies.
- 4. American Heart BLSL/CPR Certification: Must be current.

## **Additional Program Requirements**

## 1. Progression Policy

VN

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

3. Vocational Nursing Program Specific Courses:

132

Semeste	er 1:		
VN	110	Introduction to Client Care I	5.0
VN	112	Introduction to Client Care II	5.0
VN	114	Pharmacology I	1.5
VN	116	Patient Care Management & Critical Thinking	2.5
PSY	204	Developmental Psychology: Conception to Death	3.0
Semeste	er 2:		
VN	120	Maternity Cycle	5.5
VN	122	Common Health Problems I	5.5
VN	124	Pharmacology II	2.0
Semeste	r 3:		
VN	130	Common Health Problems II	5.5

Total Nursing Units 41.0

Common Health Problems III

5.5

## PHARMACY TECHNICIAN

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

The Pharmacy Technician program offers an Associate of Science Degree and the Certificate of Achievement which will prepare the student for the national certification exam for entry level work as a pharmacy technician. A pharmacy technician helps the licensed pharmacist prepare prescriptions, medications, provides customer services, and performs administrative duties. Pharmacy technicians generally are responsible for receiving prescription requests, preparing the prescription, preparing sterile solutions, counting medications, and administrative duties such as answering the phone, stocking shelves, or operating a cash register. Career roles may be in a retail or mail-order pharmacy; a hospital or nursing home; and an assisted living facility or penal system.

#### **PROGRAM LEARNING OUTCOMES**

- 1. Demonstrate knowledge of accurate calculations for oral and parenteral dosages.
- 2. Demonstrate knowledge of accurate medication compounding and identification of patients that need to be counseled by a licensed pharmacist.
- 3. Demonstrate knowledge of legal requirements related to the pharmacy technician role.

### **ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS**

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## TRANSFER PREPARATION

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#### **Transfer Resources:**

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

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

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

#### **CAREER OPPORTUNITIES**

Completing students will be able to work within a long-term care facility, hospital, retail, or other pharmacy under the direction of a licensed pharmacist.

 Pharmacy Technician · Pharmacy Aide

Other workers who are employed in pharmacies, work with pharmaceutical compounds, or are involved in patient care include: Biological Scientists, Medical Scientists, Physicians and Surgeons, and Registered Nurses.

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

## **FINANCIAL AID**

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## **PHARMACY TECHNICIAN**

## **ASSOCIATE DEGREE PROGRAM**

## **PHARMACY TECHNICIAN MAJOR - A.S. DEGREE**

Eighteen and one half (18.5) units required for the major.

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

## I. Required courses for the major (18.5 units)

AHP	100	Medical Terminology	3.0
PHT	108	Introduction to Pharmacy Technology	2.0
PHT	120	Pharmacy Technician Body Systems I	3.0
PHT	125	Pharmacy Technician Body Systems II	3.0
PHT	130	Calculation and Pharmacology for Pharmacy Technician	3.0
PHT	140	Pharmacy Technician Operations	4.5

Total Major Units 18.5

## **CERTIFICATE PROGRAM**

## **PHARMACY TECHNICIAN CERTIFICATE**

Eighteen and one half (18.5) units required for the certificate.

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

## I. Required courses for the certificate (18.5 units)

AHP	100	Medical Terminology	3.0
PHT	108	Introduction to Pharmacy Technology	2.0
PHT	120	Pharmacy Technician Body Systems I	3.0
PHT	125	Pharmacy Technician Body Systems II	3.0
PHT	130	Calculation & Pharmacology for Pharmacy Technician	3.0
PHT	140	Pharmacy Technician Operations	4.5

Total Certificate Units 18.5

## PHYSICAL EDUCATION

#### **DEGREES, CERTIFICATES AND AWARDS**

Associate in Science Degree (A.S.)

#### **DESCRIPTION**

The Physical Education Associate of Science degree provides an educational and practical foundation for students interested in multiple professions within the area of physical education/kinesiology. Topics include introduction to physical education, care and prevention of athletic injuries, exercise leadership, first aid and CPR, psychology of coaching, nutrition, dance, fitness, and sport. Students who work closely with their counselor can use this degree to prepare for majoring in kinesiology at a four-year institution.

## **PROGRAM LEARNING OUTCOMES**

- 1. List various occupations in the field of physical education and exercise science, and then summarize the educational requirements for employment in each field.
- 2. Identify common injuries in the field of athletics and physical education, and then discuss shortterm and long-term treatment plans.
- 3. Demonstrate skills needed to meet the minimal certification standards when performing first aid and CPR as required by either the American Red Cross (ARC) or American Heart Association (AHA).
- 4. Demonstrate safe and effective exercise techniques, as well as improved fitness in the four areas of exercise principles (Cardio-respiratory Endurance, Muscular Strength and Endurance, Flexibility, and Body Composition).

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## **CAREER OPPORTUNITIES**

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

- Athletic Administrator
- Health and Safety Director Sports Journalist
- Athletic Trainer
- Health/Sport Club Manager
- Teacher

- Personal Trainer
- Public/Private/Non-Profit Organization Recreation Director
- Resort Activities Director/Coordinator

Students earning the Associate in Science degree in Physical Education may find employment as assist level positions in the K-12 school system, the fitness industry or recreational settings.

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



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## **PHYSICAL EDUCATION**

## **ASSOCIATE DEGREE PROGRAM**

## PHYSICAL EDUCATION MAJOR – A.S. DEGREE

Nineteen to twenty (19.0-20.0) units required for the major.

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

ALL	COURSES FOR TH	IS MAJOR	MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER	₹.
I.	I. Required courses for the major (13.0 units)			
	BIOL 100 Principles of Biological Science 4.			
	HE	104	First Aid and CPR	3.0
	PE	209	Introduction to Kinesiology	3.0
	PE	219	Introduction to Athletic Training	3.0
II.	Activity Requi		d at (2) d a state (2.2) to	
	Select a minim	um of one	e course from three (3) areas for a total of four (4.0) units:	
	Adaptive			
	PE	130	Adapted Physical Exercises	1.0
	PE	131	Adapted Sports	1.0
	Aquatics			
	PE	107	Aquatic Exercise	1.0
	PE	121	Beginning to Intermediate Swimming	1.0
	PE	122	Lifeguard Training	2.0
	PE	123	Water Safety Instructor Training	2.0
	PE	142	Advanced Swimming	1.0
	Fitness			
	PE	102	Physical Fitness	1.0
	PE	103	Physical Fitness – Women	1.0
	PE	104	Weight Training	1.0
	PE	106	Walking/Jogging Fitness	1.0
	PE	111	Aerobics – Step	1.0
	Individua	l/Team Sp	oorts	
	PE	112	Basketball – Co-Ed	1.0
	PE	120	Softball	1.0
	PE	126	Tennis	1.0
	PE	127	Tennis – Advanced	1.0
	PE PE	128 129	Volleyball Volleyball – Advanced	1.0 1.0
	PE	143	Advanced Basketball – Men	1.0
	PE	144	Advanced Basketball – Women	1.0
	PE	170	Bowling – Beginning	1.0
	PE	171	Bowling – Intermediate	1.0
	PE	172	Bowling – Advanced	1.0
	Intercelle	giate Athl	latics	
	ATHL	120	Intercollegiate Cross Country and PE	3.0
	ATHL	121	Out-of-Season Intercollegiate Cross Country and PE	3.0
	ATHL	122	Intercollegiate Volleyball and PE	3.0
	ATHL	123	Out-of-Season Intercollegiate Volleyball and PE	3.0
	ATHL	124	Intercollegiate Men's Soccer and PE	3.0
	ATHL	125	Out-of-Season Intercollegiate Men's Soccer and PE	3.0
	ATHL	126	Intercollegiate Women's Soccer and PE	3.0
	ATHL	127	Out-of-Season Intercollegiate Women's Soccer and PE	3.0
	ATHL	128	Intercollegiate Men's Basketball and PE 1	3.0
	ATHL	129	Intercollegiate Men's Basketball and PE 2 Intercollegiate Women's Basketball and PE 1	3.0
	ATHL ATHL	130 131	Intercollegiate Women's Basketball and PE 1	3.0 3.0
	ATHL	132	Out-of-Season Intercollegiate Baseball and PE	3.0
	ATHL	133	Intercollegiate Baseball and PE	3.0
	ATHL	134	Out-of-Season Intercollegiate Softball and PE	3.0
	ATHL	135	Intercollegiate Softball and PE	3.0
	ATHL	136	Out-of-Season Intercollegiate Men's Tennis and PE	3.0
	ATHL	137	Intercollegiate Men's Tennis and PE	3.0
	ATHL	138	Out-of-Season Intercollegiate Women's Tennis and PE	3.0
	ATHL	139	Intercollegiate Women's Tennis and PE	3.0
	Theory/Due -4	eum Pae	iromant Salastana saursa (2.0.2.0it-).	
III.	PE	cum Kequ 200	irement – Select one course (2.0-3.0 units): Theory of Baseball	2.0
	PE	200	Theory of Basketball	2.0
	PE	202	Theory of Softball	2.0
	PE	203	Theory of Volleyball	2.0
	PE	211	PE in the Elementary School	3.0
	PE	221	Psychology of Coaching	2.0
	PE	222	Sports Officiating	3.0
Tota	Total Major Units 19.0-20.0			
1018	iotal Major Offits			.5-20.0

## PHYSICAL SCIENCE

#### **DEGREES, CERTIFICATES AND AWARDS**

Associate in Science Degree (A.S.)

#### **DESCRIPTION**

Physical Science is a branch of science, identified as a natural science, which encompasses the study non-living systems, in contrast to the life sciences. Physical sciences are those fields of study that analyze the natural state and properties of energy paired with any non-living matter. Physics, chemistry, geology (earth science), and astronomy are physical sciences.

Physics is the "fundamental science" because the other natural sciences (biology, chemistry, geology, etc.) deal with systems that obey the laws of physics. The physical laws of matter, energy, and the forces of nature govern the interactions between particles (such as molecules, atoms, or subatomic particles).

Astronomy is a natural science that deals with the study of celestial objects (such as stars, planets, comets, nebulae, star clusters, and galaxies) and phenomena that originate outside the atmosphere of Earth. It is concerned with the evolution, physics, chemistry, meteorology, and motion of celestial objects, as well as the formation and development of the universe. Astronomy is one of the oldest sciences.

Chemistry, built upon physical concepts, addresses phenomena associated with the structure, and composition of matter and the changes it undergoes. Often known as the central science, chemistry connects the fundamental laws of physics to engineering and other natural sciences such as biology, earth science, astronomy and material science.

Earth Science is the science of the planet Earth, the only known life-bearing planet. Its studies include some of the following: Oceanography, Geology, Weather, Soil Science, Physical Geography, etc.

## **PROGRAM LEARNING OUTCOMES**

- 1. Be able to observe repeatable physical interactions, collect data and apply the scientific method to identify their physical origins.
- 2. Demonstrate, in a clear and concise manner, how to analyze and solve problems and to evaluate and test the correctness of the proposed solution.
- 3. Demonstrate a proficiency in their oral and written communications of their scientific work and ideas in group and/or laboratory exercises.

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#### **CAREER OPPORTUNITIES**

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities. A strong mathematical background is required.

- Engineer
- Geographer
- Telescope Operator

- Science Educator
- Meteorologist
- Astronaut

- Chemist Geologist
- Technical Writer
- Space Engineer

- Agriculturist
- Research Physicist Applied Physicist
- Space Scientist

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

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#### **Transfer Resources:**

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

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

## **FINANCIAL AID**

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financial-aid-and-scholarships/

# **PHYSICAL SCIENCE**

## **ASSOCIATE DEGREE PROGRAM**

## **PHYSICAL SCIENCE MAJOR - A.S. DEGREE**

Thirty-Five (35.0) units required for the major.

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

## I. Thirty (30.0) units required:

CHEM	200	General Inorganic Chemistry I	5.0
CHEM	202	General Inorganic Chemistry II	5.0
MATH	192	Analytic Geometry and Calculus I	4.0
MATH	194	Analytic Geometry and Calculus II	4.0
PHYS	200	Principles of Physics I	4.0
PHYS	202	Principles of Physics II	4.0
PHYS	204	Principles of Physics III	4.0

## II. Five (5.0) units selected from:

AG	/ENVS	110	Environmental Science (3.0)
AS	TR	100	Principles of Astronomy (3.0)
CH	ΙΕΜ	204	Organic Chemistry I (5.0)
CH	IEM	206	Organic Chemistry II (5.0)
GE	OG	100	Physical Geography (3.0)
GE	OL	100	General Geology (4.0)
GE	OL	110	Earth and Space Science (3.0)
GE	OL	130	Climate and Weather (3.0)
M	ATH	119	Elementary Statistics (4.0)
M	ATH	210	Multivariable Calculus (4.0)
M	ATH	220	Elem Differential Equations (3.0)
M	ATH	230	Intro to Linear Algebra w/Appl (3.0)
PH	ISC	110	Physical Science (3.0)

Total Major Units 35.0

## **POLITICAL SCIENCE (For Transfer)**

#### **DEGREES, CERTIFICATES AND AWARDS**

Associate in Arts Degree in Political Science for Transfer (AA-T)

#### **DESCRIPTION**

Political Science, or Government, is the study of the acquisition and use of public power and authority. Politics and government affect everyone's life and impinge on activities in many fields. The introductory courses are for the student interested in learning about American Government and different political cultures in the world. The political science major is especially desirable for students who might work for civil government at any level, be commissioned as military officers or who intend to become lawyers. A major and/or minor in political science at a four-year institution is useful in such fields as economics, history, journalism and language or for those who hope to become executives in law enforcement or in many types of businesses.

The Associate in Arts for Transfer (AA-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

#### **PROGRAM LEARNING OUTCOMES**

- 1. Use critical thinking skills to develop an understanding of the international community.
- 2. Develop an appreciation and understanding of the american politial system from historical, political, economic, and social perspectives.
- 3. Develop an understanding of the world's major political ideologies to include liberalism, socialism, communism, and conservatism.

### ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

#### **CAREER OPPORTUNITIES**

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

- Administrative Analyst
- Budget Analyst
- Administrative Aide
- Administrator
- Administrative Assistant
- Lobbvist
- Personnel Manager
- Attorney

- Foreign Service Officer
- · Campaign Aide
- Occupational Analyst
- Elected Official
- Government Worker
- Legislative Aide
- Political Economist Military Officer
- Public Information Officer
- · Political Scientist
- Foreign Trade Specialist
- City Planner
- Public Relations Specialist
- Staff Member
- Public Opinion Surveyor

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

#### TRANSFER PREPARATION

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

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#### **FINANCIAL AID**

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# **POLITICAL SCIENCE (For Transfer)**

## **ASSOCIATE DEGREE PROGRAM**

#### **POLITICAL SCIENCE**

Associate in Arts Degree in Political Science for Transfer (AA-T) – 18.0-19.0 units

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

#### REQUIREMENTS FOR THE DEGREE

- I. Units/GPA Must complete a maximum of 60 CSU-transferable semester units with a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. NOTE: While a minimum of 2.0 is required for admission, some institutions and majors may require a higher GPA. Please consult with a counselor for more information.
- II. General Education Must complete one of the following general education transfer patterns:
   A. California State University General Education Breadth Pattern (CSU GE-B) 39 units minimum
   B. Intersegmental General Education Transfer Curriculum (IGETC) 37 units minimum
- III. Eighteen (18) units required for the major.
  - A. Required for the Major

	,	
POLS 102	American Government & Politics	3.0
B. Select a minimum of nine to ten (9-10) units from:		
POLS 100	Introduction to Political Science (3.0)	
POLS 104	Comparative Politics (3.0)	
POLS 106	Introduction to International Relations (3.0)	
MATH 119	Elementary Statistics (4.0)	
C. Select six (6) units from:		

Any courses not selected above, any CSU transferable political science courses, and/or other courses that are articulated as lower division preparation for the political science major at a CSU, or any CSU transferable introductory course in the social sciences (i.e., articulated

as filling CSU GE Area D.)

ANTH	102	Cultural Anthropology (3.0)
ECON	101	Introduction to Micro Economics (3.0)
ECON	102	Intro to Macro Economics (3.0)
GEOG	102	Cultural Geography (3.0)
HIST	100	Early World History (3.0)
or		
HIST	101	Modern World History (3.0)
HIST	110	Early Western Civilization (3.0)
or		
HIST	111	Modern Western Civilization (3.0)

Total Major Units

CSU-GE or IGETC Pattern

Electives (as needed to reach 60 CSU transferable units)

Total Maximum Units:

18.0-19.0

37.0-39.0

60.0

## PRE-ENGINEERING

#### **DEGREES, CERTIFICATES AND AWARDS**

Associate in Science Degree (A.S.)

## **DESCRIPTION**

The IVC Pre-Engineering program provides a foundation of mathematics, chemistry and physics courses necessary to transfer to a four-year institution and complete a bachelor's degree in engineering. Students should consult the institution to which they wish to transfer for specific lower division requirements.

People working in the field of engineering and related technical fields "bridge the gap" between scientific principles and the application of these principles to the needs of society. An engineer uses experience and judgment, as well as advanced training in engineering, science, and mathematics, to formulate ideas and designs, and to determine standards, specifications, work orders and schedules so that projects can be economically beneficial to mankind. Engineering offers diverse and exciting job opportunities for people with mathematical, scientific, and technical skills.

#### **PROGRAM LEARNING OUTCOMES**

- 1. Have a working knowledge of the theories and principles of physics in the areas of Newtonian mechanics, gravitation, electricity and magnetism, wave motion and physical optics.
- 2. Be acquainted with standard methods of mathematical analysis including trigonometry and analytic geometry, differential and integral calculus, matrices and linear algebra, and the solutions to differential equations.
- 3. Can use the computer to store and process technical data, to access information remotely over the internet, and as a computational tool related to the engineering process.

#### ASSOCIATE DEGREE PROGRAM

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

### **CAREER OPPORTUNITIES**

Of the career opportunities identified, many will require the completion of bachelor's degree requirements at 4-year colleges and universities. Career options include:

Aerospace Engineer Civil Engineer Structural Engineer

**Electrical Engineer Computer Engineer Environmental Engineer** Mechanical Engineer

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

## TRANSFER PREPARATION

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

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#### **FINANCIAL AID**

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## **PRE-ENGINEERING**

## **ASSOCIATE DEGREE PROGRAM**

## **PRE-ENGINEERING – A.S. DEGREE**

Twenty-seven (27.0) units required for the major.

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

l.	Sixteen (1	6.0) units require	d:	
	CHEM	200	General Inorganic Chemistry I	5.0
	ENGR	210	Statics	3.0
	MATH	210	Multivariable Calculus	4.0
	PHYS	200	Principles of Physics I	4.0
II.	Three (3.0	) units selected fr	om:	3.0
	MATH	220*	Elementary Differential Equations (3.0)	
	MATH	230*	Introduction to Linear Algebra w/Applications (3.0)	
III.	Three (3.0	) units selected fi	rom:	3.0
	ENGR	212*	Dynamics (3.0)	
	ENGR	240*	Electronic Circuit Analysis (3.0)	
IV.	Five (5.0)	units selected fro	m	5.0
	CHEM	202	General Inorganic Chemistry II (5.0)	
	CHEM	204	Organic Chemistry I (5.0)	
	CHEM	206	Organic Chemistry II (5.0)	
	CIS	210	Programming in C++ (3.0)	
	CS	221	Introduction to Object-Oriented Programming in Java (3.0)	
	ENGR	212*	Dynamics (3.0)	
	ENGR	240*	Electronic Circuit Analysis (3.0)	
	MATH	119	Elementary Statistics (4.0)	
	MATH	220*	Elementary Differential Equations (3.0)	
	MATH	230*	Introduction to Linear Algebra w/Applications (3.0)	
	PHYS	202	Principles of Physics II (4.0)	
	PHYS	204	Principles of Physics III (4.0)	
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<sup>\*</sup> If not used for required courses under sections II. or III. above.

Total Major Units 27.0

## PSYCHOLOGY (For Transfer)

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

The Psychology program at IVC is designed to benefit both the student pursuing a career in psychology or related disciplines as well as the student desiring to acquire a personal understanding of psychology as it applies to everyday living. Psychology is the scientific study of human behavior and mental processes. It is a broad discipline which involves both pure and practical application of scientific principles as they apply to human development and adjustment. Although professional level positions require a graduate degree, BA holders find satisfying careers in a growing number of fields.

• University Professor

Career Counselor

Behavior Analyst

Training Specialist

• Research Technician

Research Analyst

Mental Health Worker

• Drug Abuse Counselor

The Associate in Arts for Transfer (AA-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

#### **PROGRAM LEARNING OUTCOMES**

- 1. Demonstrate understanding and analyze the major theoretical perspectives, historical trends, and current research in psychology.
- 2. Demonstrate an understanding of the interaction of the biological basis of behavior, cognition and emotion with the environmental basis for behavior, cognition and emotion.
- 3. Demonstrate critical thinking by applying psychological theory and the scientific approach, to understanding and solving diverse personal and social issues related to behavior and/or cognition.

#### ASSOCIATE DEGREE PROGRAM (For Transfer)

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### **CAREER OPPORTUNITIES**

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

- 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
- Personnel Management Specialist Public Health Statistician Trainee
- Community College Instructor Marriage and Family Therapist
- Marriage, Family, Child Counselor Community College Counselor
- Test Validation and Development Specialist Personnel Analyst/Manager

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#### TRANSFER PREPARATION

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## **PSYCHOLOGY (For Transfer)**

## **ASSOCIATE DEGREE PROGRAM**

## **PSYCHOLOGY**

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

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

## REQUIREMENTS FOR THE DEGREE

- I. Units/GPA Must complete a maximum of 60 CSU-transferable semester units with a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. NOTE: While a minimum of 2.0 is required for admission, some institutions and majors may require a higher GPA. Please consult with a counselor for more information.
- II. General Education Must complete one of the following general education transfer patterns:
   A. California State University General Education Breadth Pattern (CSU GE-B) 39 units minimum
   B. Intersegmental General Education Transfer Curriculum (IGETC) 37 units minimum
- III. Nineteen-Twenty (19-20) units required for the major.

## Required for the Major (10 units)

208

nequired for the Major (10 dilits)				
PSY	214	Statistical Methods in Behavioral Sciences	4.0	
<u>OR</u>				
MATH	119	Elementary Statistics (4.0)		
PSY	101	Introduction to Psychology	3.0	
PSY	212	Research Methods in Psychology	3.0	
List A: S	elect one (3-4 unit	s):	3.0-4.0	
BIOL	100	Principles of Biological Science (4.0)		
BIOL	180	General Biology: Molecules, Cells and Genetics (4.0)		
PSY	200	Biological Psychology (3.0)		
List B: Select one (3 units):			3.0-4.0	
Any course from List A not already used.				
PSY	202	Learning (3.0)		
List C: S	elect one (3 units):		3.0	
Any cou	irse from List A or B	not already used.		
PSY	204	Developmental Psych: Conception to Death (3.0)		
PSY/SO	C 206	Social Psychology (3.0)		

Total Major Units	19.0-20.0
CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	

Abnormal Psychology (3.0)

Total Maximum Units: 60.0

## **SOCIAL SCIENCE**

#### **DEGREES, CERTIFICATES AND AWARDS**

Associate in Art Degree (A.A.)

#### DESCRIPTION

The Social Science major is presented with course offerings in American Indian Studies, Anthropology, Economics, Geography, History, Latino/Latina Studies, Political Science, Sociology and Religious Studies. It serves as a knowledge base for the social sciences subject areas and provides subject matter preparation for pursuit of the bachelor's degree at a four-year institution that can lead to the Single Subject Teaching Credential in Social Science.

#### **PROGRAM LEARNING OUTCOMES**

- 1. Demonstrate clear and effective writing about a specified social science concentration of study.
- 2. Demonstrate clear and effective oral communication about a specified social science concentration of study.
- 3. Relate knowledge associated with a specified social science concentration of study to global and indigenous perspectives.

#### ASSOCIATE DEGREE PROGRAM

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

## **CAREER OPPORTUNITIES**

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

- Business
- Historian
- Lobbyist

- College Professor
- Human Relations
- Personnel Specialist

- · Community Service • Economist
- Journalist · Middle School Teacher
- Politian

- Geographer
- Military Service
- Public Relations Sociologist

- Graduate School
- Law Enforcement
- · High School Teacher
- Lawyer
- Government and Civil Service
- **Gainful Employment:** Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: http://www.imperial.edu/courses-and-programs/programs-of-study/

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## **SOCIAL SCIENCE**

## **ASSOCIATE DEGREE PROGRAM**

## **SOCIAL SCIENCE MAJOR - A.A. DEGREE**

Required courses for the major (18.0 units).

The requirements for a major in Social Science may be satisfied by completing eighteen (18.0) units from the following list of courses with grades of "C' or better. At least one course must be taken from four of the following nine fields.

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

American India	n Studies		
AIS/ANTH	106	Indians of North America	3.0
AIS/ANTH	108	Indians of the Southwest	3.0
Anthropology			
ANTH	100	Physical Anthropology	3.0
ANTH	102	Cultural Anthropology	3.0
ANTH/AIS	106	Indians in North America	3.0
ANTH/AIS	108	Indians of the Southwest	3.0
ANTH	120	Introduction to Archaeology	3.0
Economics		3,	
ECON	101	Intro to Microeconomics	3.0
ECON	102	Intro to Microeconomics	3.0
Geography			
GEOG	100	Physical Geography	3.0
GEOG	102	Cultural Geography	3.0
GEOG	108	World Regional Geography	3.0
History		-3 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	United States History: Prehistory to Reconstruction	3.0
HIST	121	United States History: Reconstruction to Present	3.0
HIST/LAS	130	Early Latin America	3.0
HIST/LAS	131	Modern Latin America	3.0
HIST/LAS	132	History of Mexico	3.0
HIST	140	East Asian History	3.0
HIST	150	Survey of African History	3.0
HIST	160	Middle Eastern from 600	3.0
HIST	220	Woman in American History	3.0
HIST	222	History of California	3.0
HIST/LAS	225	Mexican American History	3.0
Latino/Latina S		MCAICAIT AITICITCAIT I IISTOLY	5.0
LAS/HIST	130	Early Latin America	3.0
LAS/HIST	131	Modern Latin America	3.0
LAS/HIST	132	History of Mexico	3.0
LAS/HIST	225	Mexican American History	3.0
Political Science		Mexican American History	3.0
POLS	: 100	Introduction to Political Science	3.0
POLS	100	American Government and Politics	3.0
POLS	102	Comparative Politics	3.0
	104	Introduction to International Relations	
POLS		introduction to international Relations	3.0
Religious Studi		Dalinians of the Madaya World	2.0
RELS	100	Religions of the Modern World	3.0
Sociology	101	lata dustina ta Casiala a	2.0
SOC	101	Introduction to Sociology	3.0
SOC	102	Contemporary Social Problems	3.0

**Total Major Units** 

18.0

## **SOCIOLOGY (For Transfer)**

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

Sociology is the study of the groups people build, the makeup of human groups, and changes in their makeup over time. This study of human groups assists students to learn who we are, to get closer to the truth about social work, and to become aware of ways to achieve desired social ends. Sociology, like other social science disciplines does not educate students in specialized skills. Sociology and other liberal arts majors stress the ability to observe, organize and write clearly, as well as the development of skills in the analysis of data and in collaborating with others.

The Associate in Arts for Transfer (AA-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

#### **PROGRAM LEARNING OUTCOMES**

- 1 Demonstrate an understanding of how social structures (families, schools, churches, laws) influence day to day experiences of individuals.
- 2 Demonstrate the ability to find information, assess evidence and evaluate arguments in empirical studies.
- 3 Demonstrate the ability to be able to find empirical studies and assess the evidence in those

#### **ASSOCIATE DEGREE PROGRAM (For Transfer)**

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

## **CAREER OPPORTUNITIES**

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

- Social Worker
- Teacher
- Criminologist
- Parole/Probation Officer
- Correctional Counselor
- Youth Counselor • Public Health Statistician
- Industrial Sociologist
- Demographer
- Recreational Specialist
- Urban Planner
- Social Ecologist
- Public Relations Consultant
- Interviewer/Researcher Statistician
- Population Analyst
- Public Opinion Analyst
- Migration Specialist
- Employment Counselor
- Writer/Journalist
- Management Analyst
- Budget Analyst
- · Government Research Analyst

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

## TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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

## **FINANCIAL AID**

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

## **SOCIOLOGY (For Transfer)**

## **ASSOCIATE DEGREE PROGRAM**

#### **SOCIOLOGY**

Associate in Arts Degree in Sociology for Transfer (AA-T) – 18.0-19.0 units

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

#### REQUIREMENTS FOR THE DEGREE

- I. Units/GPA Must complete a maximum of 60 CSU-transferable semester units with a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. NOTE: While a minimum of 2.0 is required for admission, some institutions and majors may require a higher GPA. Please consult with a counselor for more information.
- II. General Education Must complete one of the following general education transfer patterns:
   A. California State University General Education Breadth Pattern (CSU GE-B) 39 units minimum
  - B. Intersegmental General Education Transfer Curriculum (IGETC) 37 units minimum
- III. Associate Degree Major Core 18.0-19.0 units

A. Require	d for the Major		
SOC	101	Introduction to Sociology	3.0
B. Select s	ix/seven (6-7) u	nits from:	6.0-7.0
* SOC	102	Contemporary Social Problems (3.0)	
* MATH	119	Elementary Statistics (4.0)	
<u>OR</u>			
* PSY	214	Statistical Methods in Behavioral Sciences (4.0)	
* PSY	212	Research Methods in Psychology (3.0)	
C. Select s	ix (6) units from	:	6.0
* SOC	110	Marriage and the Family (3.0)	
* SOC/AJ	224	Criminology (Formerly SOC/AJ 124) (3.0)	
* SOC/ADS	150	Sociology of Minority Groups (3.0)	
* SOC/PSY	206	Social Psychology (3.0)	
D. Select t	hree (3) units fr	om the following:	3.0
ANTH	102	Cultural Anthropology (3.0)	
GEOG	102	Cultural Geography (3.0)	
* MATH	119	Elementary Statistics (4.0)	
OR			

1717 (1111	117	Licincitally Statistics (4.0)
<u>OR</u>		
* PSY	214	Statistical Methods in Behavioral Sciences (4.0)
PSY	101	Introduction to Psychology (3.0)
* PSY	212	Research Methods in Psychology (3.0)
* SOC	102	Contemporary Social Problems (3.0)
* SOC	110	Marriage and the Family (3.0)
* SOC/AJ	224	Criminology (Formerly SOC/AJ 124) (3.0)
* SOC/ADS	150	Sociology of Minority Groups (3.0)
* SOC/PSY	206	Social Psychology (3.0)

<sup>\*</sup> If not used for required courses under sections B or C, above.

Total Major Units

CSU-GE or IGETC Pattern

Electives (as needed to reach 60 CSU transferable units)

Total Maximum Units:

18.0-19.0

37.0-39.0

60.0

## **SPANISH (For Transfer)**

## **DEGREES, CERTIFICATES AND AWARDS**

Associate in Art Degree in Spanish for Transfer (AA-T)

#### **DESCRIPTION**

The Spanish for Transfer Degree Program offers courses that serve as a foundation for broad liberal education. It serves as preparation for a career in education, and as supplementary preparation for many careers in diverse areas such as emergency services, the legal and medical professions, social work, business, Foreign Service, public relations, journalism, translation and interpretation. The program provides a linguistic and grammatical study of the language and an in-depth look into the culture of Spanish Speaking countries.

#### **PROGRAM LEARNING OUTCOMES**

- 1. Analyze and evaluate literary texts through writing.
- 2. Successfully identify and differentiate between verb tenses in the subjunctive mood.

## ASSOCIATE DEGREE PROGRAM (For Transfer)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

#### **CAREER OPPORTUNITIES**

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

- Banking Representative
- Buyer/Sales Representative
- Civil Service
- Counselor
- Court Interpreter
- Customs Inspector
- Diplomat
- Exchange Coordinator
- Foreign Correspondent
- Foreign Secretary

- Foreign Service Officer

- Immigration Specialist
- Import/Export Agent
- Interpreter/Translator
- IRS/Franchise Tax Board
- Law Enforcement Officer
- Librarian
- Media Personnel
- Medical/Health Worker
- Missionary
- Peace Corps Worker
- Public Relations

- Realtor
- Research Assistant
- Sales Representative
- · Social Worker
- Teacher
- Technical Writer
- Trade and Commerce Expert
- Travel Industry
- U.S. Immigration/Customs
- U.S. Information Agent

• Foreign Publications/Textbook Editor • International Business Personnel

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

#### TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu - CSU System Information

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

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

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## **SPANISH (For Transfer)**

## **ASSOCIATE DEGREE PROGRAM**

#### **SPANISH**

Associate in Arts in Spanish for Transfer (AA-T) – 19.0-23.0 units

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

#### REQUIREMENTS FOR THE DEGREE

- 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.
- **General Education** Must complete one of the following general education transfer patterns: II. A. California State University General Education Breadth Pattern (CSU GE-B) – 39 units minimum B. Intersegmental General Education Transfer Curriculum (IGETC) – 37 units minimum
- Nineteen to Twenty-Three (19-23) units required for the major III.

## Required for the Major (10-20 units)

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SPAN	100	Elementary Spanish I	5.0
SPAN	110	Elementary Spanish II	5.0
SPAN	200	Intermediate Spanish I	5.0
<u>OR</u>			
SPAN	220	Spanish for Heritage Speakers I	5.0
SPAN	210	Intermediate Spanish II	5.0
OR			
SPAN	221	Spanish for Heritage Speakers II	5.0

## List A: Select one course (3 units)

SPAN	222	Bilingual Oral Spanish	3.0
SPAN	225	Introduction to Spanish American Literature	3.0
SPAN/HU	JM 262	Introduction to Chicano/a Studies	3.0

<sup>\*</sup> NOTE: If a student places out of any required course and is not awarded units for that course, the student will have to take additional units to compensate for the course/units needed to reach at least 18 total units in the major (per Title 5 regulations). Appropriate course substitutions may be from List A if not already used or from the Substitution Courses listed below.

## **Substitution Courses:**

ANTH 102	Cultural Anthropology	3.0
COMM 150	Intercultural Communication	3.0
HIST/LAS 130	Early Latin America	3.0
HIST/LAS 131	Modern Latin America	3.0
HIST/LAS 132	History of Mexico	3.0
HIST/LAS 225	Mexicán American History	3.0
SOC 101	Introduction to Sociology	3.0
SPAN 223	Spanish Reading and Writing	4.0

Total Maximum Units:	60.0
Electives (as needed to reach 60 CSU transferable units)	
CSU-GE or IGETC Pattern	37.0-39.0
Total Major Units	19.0-23.0

## STUDIO ARTS (For Transfer)

#### **DEGREES, CERTIFICATES AND AWARDS**

Associate in Art Degree in Studio Arts for Transfer (AA-T)

#### **DESCRIPTION**

The IVC Art Department serves a diverse group of students, from those who are taking their first and only art instruction, to those who will go on to use art skills in their careers. All students are given both the technical knowledge and the emotional support needed to excel in their art. The study of art at IVC is an ideal way for students to understand their creative potential, whether they choose to work in drawing, painting, ceramics, sculpture or design. Art students learn that art requires a balance between their intellect and their emotions. The IVC Art program offers introductory and intermediate courses that blend both traditional and contemporary art values and Art History courses that satisfy requirements for Humanities credit.

The Associate in Arts for Transfer (AA-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major.



- 1. Critically analyze, interpret, and evaluate works of art.
- 2. Develop a foundation of art skills and a high level of craftspersonship by utilizing a variety of tools and technologies associated with the visual arts.
- 3. Use a diverse range of global events to express personal ideas and opinions through artwork.
- 4. Identify the theoretical, cultural, and historical contexts of art.
- 5. Demonstrate appropriate skills needed to articulate their conscious artistic intentions, and express coherent aesthetics.

## **ASSOCIATE DEGREE PROGRAM (For Transfer)**

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

#### **CAREER OPPORTUNITIES**

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

Artist

- Arts Administrator
- Painter

- Art Consultant
- Ceramicist
- Photographer

- Art Critic
- Gallery Director
- Printmaker

- Art Dealer
- Graphic Designer

- Art Historian
- Jewelry Designer
- Restoration Artist

- Art Teacher
- Metalsmith
- Sculptor Set painter

- Art Therapist
- Muralist

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



#### TRANSFER PREPARATION

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

## **Transfer Resources:**

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

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

### **FINANCIAL AID**

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## **STUDIO ARTS (For Transfer)**

## **ASSOCIATE DEGREE PROGRAM**

#### **STUDIO ARTS**

Associate in Arts Degree in Studio Arts for Transfer (AA-T) – 24.0 units

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

## REQUIREMENTS FOR THE DEGREE

ART

260

- I. Units/GPA Must complete a maximum of 60 CSU-transferable semester units with a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. NOTE: While a minimum of 2.0 is required for admission, some institutions and majors may require a higher GPA. Please consult with a counselor for more information.
- II. General Education Must complete one of the following general education transfer patterns:
   A. California State University General Education Breadth Pattern (CSU GE-B) 39 units minimum
   B. Intersegmental General Education Transfer Curriculum (IGETC) 37 units minimum
- III. Twenty-Four (24) units required for the major.

ART       102       History of Art II       3.0         ART       110       Design       3.0         ART       112       Design       3.0         ART       120       Drawing I       3.0         List A: Select one (3 units):       3.0         ART       100       History of Art I (3.0)         ART       104       History of Modern Art (3.0)         List B: Select three (9 units):       9.0         ART       122       Drawing II (3.0)         ART       124       Painting I (3.0)         ART       126       Painting I (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       220       Drawing IV (3.0)	Requi	red for th	e Major (12 units)	
ART       112       Design       3.0         ART       120       Drawing I       3.0         List A: Select one (3 units):       3.0         ART       100       History of Art I (3.0)         ART       104       History of Modern Art (3.0)         List B: Select three (9 units):       9.0         ART       122       Drawing II (3.0)         ART       124       Painting I (3.0)         ART       126       Painting II (3.0)         ART       128       Watercolor Painting (3.0)         ART       160       Graphic Design (3.0)         ART       170       Photography – Beginning (3.0)         ART       220       Drawing III (3.0)	ART	102	History of Art II	3.0
ART 120 Drawing I 3.0  List A: Select one (3 units): 3.0  ART 100 History of Art I (3.0)  ART 104 History of Modern Art (3.0)  List B: Select three (9 units): 9.0  ART 122 Drawing II (3.0)  ART 124 Painting I (3.0)  ART 126 Painting II (3.0)  ART 128 Watercolor Painting (3.0)  ART 128 Watercolor Painting (3.0)  ART 160 Graphic Design (3.0)  ART 170 Photography – Beginning (3.0)  ART 220 Drawing III (3.0)	ART	110	Design	3.0
List A: Select one (3 units):       3.0         ART       100       History of Art I (3.0)         ART       104       History of Modern Art (3.0)         List B: Select three (9 units):       9.0         ART       122       Drawing II (3.0)         ART       124       Painting I (3.0)         ART       126       Painting II (3.0)         ART       128       Watercolor Painting (3.0)         ART       160       Graphic Design (3.0)         ART       170       Photography – Beginning (3.0)         ART       220       Drawing III (3.0)	ART	112	Design	3.0
ART       100       History of Art I (3.0)         ART       104       History of Modern Art (3.0)         List B: Select three (9 units):       9.0         ART       122       Drawing II (3.0)         ART       124       Painting I (3.0)         ART       126       Painting II (3.0)         ART       128       Watercolor Painting (3.0)         ART       160       Graphic Design (3.0)         ART       170       Photography – Beginning (3.0)         ART       220       Drawing III (3.0)	ART	120	Drawing l	3.0
ART 104 History of Modern Art (3.0)         List B: Select three (9 units): 9.0         ART 122 Drawing II (3.0)         ART 124 Painting I (3.0)         ART 126 Painting II (3.0)         ART 128 Watercolor Painting (3.0)         ART 160 Graphic Design (3.0)         ART 170 Photography – Beginning (3.0)         ART 220 Drawing III (3.0)	List A:	Select o	ne (3 units):	3.0
List B: Select three (9 units):       9.0         ART       122       Drawing II (3.0)         ART       124       Painting I (3.0)         ART       126       Painting II (3.0)         ART       128       Watercolor Painting (3.0)         ART       160       Graphic Design (3.0)         ART       170       Photography – Beginning (3.0)         ART       220       Drawing III (3.0)	ART	100	History of Art I (3.0)	
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	104	History of Modern Art (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)	List B:	Select th	ree (9 units):	9.0
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	122	Drawing 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	124	Painting I (3.0)	
ART 160 Graphic Design (3.0) ART 170 Photography – Beginning (3.0) ART 220 Drawing III (3.0)	ART	126	Painting II (3.0)	
ART 170 Photography – Beginning (3.0) ART 220 Drawing III (3.0)	ART	128	Watercolor Painting (3.0)	
ART 220 Drawing III (3.0)	ART	160	Graphic Design (3.0)	
3 (2.2)	ART	170	Photography – Beginning (3.0)	
ART 222 Drawing IV (3.0)	ART	220	Drawing III (3.0)	
	ART	222	Drawing IV (3.0)	

Advertising/Graphic Design (3.0)

CSU-GE or IGETC Pattern	37.0-39.0
Electives (as needed to reach 60 CSU transferable units)	60.0

## UNIVERSITY STUDIES

#### **DEGREES, CERTIFICATES AND AWARDS**

Associate in Arts Degree (A.A.)

## **DESCRIPTION**

The Associate in Arts (A.A.) degree in University Studies is a degree program designed for students who would like to earn an associate's degree while preparing to transfer to an accredited four-year university. Students planning to transfer are cautioned that this curriculum may not provide for completion of the lower division requirements for transfer to a four-year institution. See a counselor for specific transfer requirements.

#### **PROGRAM LEARNING OUTCOMES**

1. See GE Program Outcomes/Course Alignment Grid at www.imperial.edu/faculty-and-staff/ campus-committess/student-learning-outcomes/

#### **ASSOCIATE DEGREE PROGRAM**

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

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#### TRANSFER PREPARATION

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financial-aid-and-scholarships/

## **UNIVERSITY STUDIES**

#### **ASSOCIATE DEGREE PROGRAM**

#### **UNIVERSITY STUDIES MAJOR - A.A. DEGREE**

#### **ASSOCIATE DEGREE REQUIREMENTS**

- 1. Graduation Requirements ALL OPTIONS
  - a. Complete all IVC Graduation and Institutional Requirements 3.0-6.0
- 2. General Education (GE) Select one pattern related to your educational goal:

All courses must be completed with a grade of "C" of better.

- a. CSU GE-Breadth Pattern (39.0 units)
- b. IGETC Pattern (34.0-37.0 units)
- 3. Minimum of eighteen (18.0) units in one selected Emphasis

18.0

All courses must be completed with a grade of "C" of better.

- a. Emphasis Select one:
  - 1) Emphasis in Arts and Humanities
  - 2) Emphasis in Behavioral and Social Sciences
  - 3) Emphasis in Science and Mathematics
- b. Within the selected Emphasis:
  - 1) Select a minimum of two different subject areas.
  - 2) Complete a minimum of six (6.0) units in one subject area.
  - 3) Courses selected can be used to also fulfill GE areas.
- 4. Electives

Enough elective units, if necessary, to total 60.0 degree applicable units required for this degree.

34.0-39.0

#### **Emphasis in Arts and Humanities**

Select a minimum of eighteen (18.0) units from the following Arts and Humanities courses. For depth, include a minimum of two courses from a single discipline; for breadth, include course from at least two disciplines. Courses can be counted toward completion of General Education requirements.

These courses emphasize the study of cultural, literary, humanistic activities and artistic expression of human beings. Students will evaluate and interpret the way in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students will also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments.

This area of emphasis allows students to select courses that will prepare them for possible majors at four-year colleges and universities typically within the fields of Art History, Communication Studies, Language Studies, Literature, Humanities, Philosophy/Religious Studies and other disciplines.

AMSL ART	100, 102, 104, 200, 202, 204 100, 102, 104, 106
COMM	100, 110, 125, 130, 150, 180
ENGL	102, 220, 221, 222, 223, 224, 225, 226, 250
FILM	230
FREN	100, 110, 201, 211
HIST	100, 101, 110, 111, 120, 121, 130, 131, 132, 140, 150,160, 220, 222, 225
HUM	100, 226, 262
JRN	100
LAS	130, 131, 132, 225
MUS	100, 102
PHIL	100, 102, 104, 106
RELS	100, 104
SPAN	100, 110, 200, 210, 220, 221, 225, 262
THEA	100

## **UNIVERSITY STUDIES**

#### **Emphasis in Behavioral and Social Science**

Select a minimum of eighteen (18.0) units from the following Behavioral and Social Sciences courses. For depth, include a minimum of two courses from a single discipline; for breadth, include courses from at least two disciplines. Courses can be counted toward completion of General Education requirements.

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

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

```
100, 102, 106, 224
ΑΙ
ADS
         120, 150
AIS
         106, 108
AMSL
         110
ANTH
         102, 106, 108, 120
CDEV
         103, 104
ECON
         101, 102
GEOG
         102, 108
HIST
         100, 101, 110, 111, 120, 121, 130, 131, 132, 140, 150, 160, 220, 222, 225
LAS
         130, 131, 132, 225
POLS
         100, 102, 104, 106
PSY
         101, 104, 120, 142, 144, 146, 200, 202, 204, 206, 208, 212
SW
         220
SOC
         101, 102, 110, 150, 206, 224
```

#### **Emphasis in Science and Mathematics**

110, 120, 140, 170

Select a minimum of eighteen (18.0) units from the following Science and Mathematics courses. Required, one mathematics course above the level of intermediate algebra. For depth, include a minimum of two courses from a single discipline; for breadth, include courses from at least two disciplines. Courses can be counted toward completion of General Education requirements.

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

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

```
ASTR
         BIOL
                  100, 120, 122, 140, 150, 180, 182, 200, 202, 204, 206, 220
         CHEM
                  100, 160, 200, 202
         CIS
                  101, 202, 210
         CS
                  221, 231, 281
         ENGR
                  210, 212, 240
         ENVS
                  110
         GEOG
                  100
         GEOL
                  100, 110
         MATH
                  110, 112, 119, 122, 140, 150, 170, 190, 192, 194, 210, 220, 230, 240
         PHSC
                  110
         PHYS
                  200, 202, 204
IVC Graduation and Institutional Requirements
                                                                                       30.0
CSU-GE Pattern
                                                                                        39.0
IGETC Pattern
                                                                                        37.0
Total Emphasis Units
                                                                                       18.0
Electives (as needed to reach 60.0 degree applicable units)
Total Maximum Units:
                                                                                       60.0
```

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## WATER TREATMENT SYSTEMS TECHNOLOGY

#### **DEGREES, CERTIFICATES AND AWARDS**

Associate of Science Degree (A.S.)
Certificate of Achievement
Specialization Certificate
Wastewater Treatment

#### **DESCRIPTION**

Water Technology is a career oriented vocational program involving the study of water/wastewater theory and principles. Professionalism, workplace skills and responsibilities are stressed along with safety and an awareness of hazardous materials control. The Water Treatment Systems Technology degree and certificates are designed to provide students with the comprehensive understanding and manipulative skills, technical knowledge, and related trade information required to become State-certified operators in Water Treatment and Water Distribution. This program will allow students to comply with the necessary requirements for certification up to Grade III level. Once the student becomes a state certified operator on any or all disciplines, he or she will qualify to seek employment in the Water Treatment Systems Technology disciplines anywhere in the State.

## **PROGRAM LEARNING OUTCOMES**

- 1. Interpret and use analytical data to perform operational adjustments.
- 2. Assume responsibility for water treatment operational changes.
- Understand and evaluate issues concerning the proper use and distribution of the water natural resources.

## **ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS**

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

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

## **CAREER OPPORTUNITIES**

- Water Treatment Plant Operator
- Water Distribution Operator
- Wastewater Treatment Plant Operator

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



## TRANSFER PREPARATION

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

#### **Transfer Resources:**

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

www.CSUMentor.edu – CSU System Information

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

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

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

#### **FINANCIAL AID**

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

## WATER TREATMENT SYSTEMS TECHNOLOGY

#### **ASSOCIATE DEGREE PROGRAM**

#### WATER TREATMENT SYSTEM TECHNOLOGY MAJOR - A.S. DEGREE

Eighteen (18.0) units required for the major.

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

#### I. Required courses for the major (18.0 units)

WT	105	Computational Procedures Operator I	3.0
WT	110	Water Treat Plant Operator I	4.0
WT	140	Water Distribution Systems	4.0
WT	205	Computational Procedures Operator II	3.0
WT	210	Water Treat Plan Operator II	4.0

Total Major Units 18.0

## **CERTIFICATE PROGRAM(S)**

## WATER TREATMENT SYSTEMS TECHNOLOGY CERTIFICATE

Eighteen (18.0) units required for the certificate.

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

#### Required courses for the certificate (18.0 units)

WT	105	Computational Procedures Operator I	3.0
WT	110	Water Treat Plant Operator I	4.0
WT	140	Water Distribution Systems	4.0
WT	205	Computational Procedures Operator II	3.0
WT	210	Water Treat Plan Operator II	4.0

Total Certificate Units 18.0

## SPECIALIZATION CERTIFICATE

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

## **SPECIALIZATION CERTIFICATE**

## WATER TREATMENT SYSTEMS TECHNOLOGY: WASTEWATER TREATMENT SPECIALIZATION CERTIFICATE

Twelve (12.0) units required for the certificate.

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

### **PROGRAM LEARNING OUTCOMES**

- 1. Demonstrate knowledge of: Water source, treatment, flocculation, sedimentation, odor control, plant operation and laboratory procedures.
- 2. Ability to calculate all basic mathematic problems that applied to treatment plant operations. This calculation includes fractions decimals, percentages, ratios, proportions, volumes, metric system and estimation.
- 3. Develop preventative maintenance programs and maintain records of inspection and repair for all water works.

## Required courses for the certificate (12.0 units)

WT	130	Wastewater Treatment Operator I	4.0
WT	150	Wastewater Collection Systems	4.0
WT	230	Wastewater Treatment Operator II	4.0
Total Major Units			18.0
Water treatment Specialization Units			12.0
<b>Total Certifica</b>	30.0		

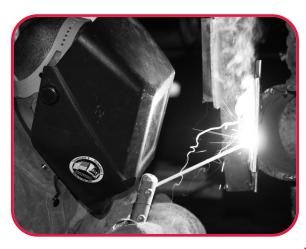
## WELDING TECHNOLOGY

#### **DEGREES, CERTIFICATES AND AWARDS**

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

#### **DESCRIPTION**

The Imperial Valley College Welding Technology curriculum is designed to educate, train, and prepare our students to meet the minimum knowledge and skill standards for entry level welders established by the American Welding Society. The emphasis of our teaching and learning activities is to master the theory, technology, applied science, and practical skills that are the foundation of a rewarding career in Welding Technology. All welding courses are a combination of the many skills, aptitudes, and knowledge identified as necessary competencies for welding personnel. Courses include the core competencies for welding personnel which are; Industrial Safety, Oxy-Fuel Welding and Cutting, Weld Symbols, Shielded Metal ArcWelding ("Stick") on plate and pipe, Gas Tungsten Arc Welding ("TIG") on plate and pipe, Plasma Arc Cutting, Air Carbon Arc Cutting, Flux Cored Arc Welding, and Gas Metal Arc Welding ("MIG").



## **PROGRAM LEARNING OUTCOMES**

- 1. Explain the hierarchy of "Hazard Control" in a Welding Environment and how this relates to Occupational Safety and Health, to include; (1) Identification of Hazards, (2) Elimination of Hazards, (3) Administration of Hazards, Engineering Controls, and (5) Personal Protective Equipment.
- 2. Demonstrate an understanding of Oxyacetylene Welding and Cutting to include the proper and safe procedures for set-up and use of related equipment.
- 3. Define and explain the physical and mechanical properties of metals and how these influence the development of Performance Qualification Records (PQR) and Welding Procedure Specifications (WPS) related to welding processes and applications.
- 4. Explain and demonstrate the proper set-up and use of all related components used in Gas Tungsten Arc Welding (GTAW).
- 5. Using the prescribed specifications and accepted parameters, apply the predetermined inspection criteria to assess "acceptable" weld samples for Destructive and Nondestructive testing.

#### ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

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

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#### **CAREER OPPORTUNITIES**

- Assembly Worker
- · Sheet Metal Worker
- · Structural and Iron Work Welder

- Auto Body Worker
- Welder

#### **Industry fields:**

- Aerospace and Manufacturing Automotive and Transportation
- Pipe and Vessel Welding
- Fabrication and Maintenance
- · Petroleum and Energy Shipbuilding and Heavy Industry

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

#### TRANSFER PREPARATION

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#### **Transfer Resources:**

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

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

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

## **FINANCIAL AID**

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financial-aid-and-scholarships/

## **WELDING TECHNOLOGY**

## **ASSOCIATE DEGREE PROGRAM**

## **WELDING TECHNOLOGY MAJOR - A.S. DEGREE**

Twenty-one (21.0) units required for the major.

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

## I. Required courses for the major (21.0 units)

WELD	100	Welding Technology	5.0
WELD	115	Flux Cored Arc Welding on Plate	3.0
WELD	125	Gas Tungsten Arc Welding on Plate	3.0
WELD	135	Shielded Metal Arc Welding on Plate	4.0
WELD	225	Gas Tungsten Arc Welding on Pipe	3.0
WELD	230	Shielded Metal Arc Welding on Pipe	3.0

Total Major Units 21.0

## **CERTIFICATE PROGRAM**

## **WELDING TECHNOLOGY CERTIFICATE**

Twenty-one (21.0) units required for the certificate.

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

## II. Required courses for the major (21.0 units)

WELD	100	Welding Technology	5.0
WELD	115	Flux Cored Arc Welding on Plate	3.0
WELD	125	Gas Tungsten Arc Welding on Plate	3.0
WELD	135	Shielded Metal Arc Welding on Plate	4.0
WELD	225	Gas Tungsten Arc Welding on Pipe	3.0
WELD	230	Shielded Metal Arc Welding on Pipe	3.0

Total Certificate Units 21.0