

Educational Programs, Degrees and Certificates

Degrees and Certificates Definitions

The current educational programs are listed below with the name of the degree or certificate, the award type, the program code, the major code, and any concentration codes associated with the program. These codes identify the student's program of study in their student record and in MyDegreePlan. If a student is uncertain about which codes to use or for information on programs without program codes, please see an advisor or counselor.

There is an additional column entitled Lead Campus in the Occupational Program list. The lead campus is the only campus to offer all courses required for the certificate or degree. Other campuses may offer introductory course(s) for the certificate or degree. Check the class schedule for the courses offered on each campus or see an advisor or counselor.

Although the Transfer Programs do not have a lead campus, transfer program's core/major courses and some general education courses may not be offered on every campus. Check the class schedule or see an advisor or counselor.

The definitions of the abbreviations in the Award column are:

AA Associate of Arts for Transfer

An Associate of Arts is a credit degree of 60-64 credits for transfer to a college or university into majors related to arts, humanities, social and behavioral science, and education. The AA includes an Arizona General Education Curriculum (AGEC-A). See General Education Requirements for Transfer Program section for more information on AGECE.

ABUS Associate of Business for Transfer

An Associate of Business Administration is a credit degree of 60-64 credits for transfer to a college or university into a business or business-related major. The ABUS includes an Arizona General Education Curriculum (AGEC-B). See the General Education Requirements for Transfer Programs section for more information on AGECE.

AFA Associate of Fine Arts for Transfer

An Associate of Fine Arts is a credit degree of 60-64 credits for transfer to a college or university into majors related to fine arts. The AFA includes an Arizona General Education Curriculum (AGEC-A). See General Education Requirements for Transfer Program section for more information on AGECE.

AS Associate of Science for Transfer

An Associate of Science is a credit degree of 60-64 credits for transfer to a college or university into a science or science-related major. The AS includes an Arizona General Education Curriculum (AGEC-S). See the General Education Requirements for Transfer Programs section for more information on AGECE.

AGS Associate of General Studies

This program is under review and no students are being accepted into the program at the time the catalog was published. See the online program display for up to date information.

AAS Associate of Applied Science for Direct Employment

An Associate of Applied Science is a credit degree of at least 60 credits for direct employment into jobs requiring skills and competencies in the technologies, business, government and public service, and health-related professions.

CERT Credit Certificate

A credit certificate is offered in a specific field of study of less than 60 credits for direct employment into a job or for transfer to a college or university.

CERA Post-Degree Certificate

A Post-Degree Certificate is a credit certificate in a specific field of study of less than 60 credits for direct employment into a job. An Associate's Degree or a Bachelor's Degree (depending on the program) is required before beginning a Post-Degree Certificate. See program display for specific requirements.

CTD Clock Hour Certificate

A Clock Hour Certificate is offered in a specific field of study for direct employment into a job. The program is non-credit clock hour rather than credit.

Selective Programs

Competitive Admissions

Competitive Admissions are programs that evaluate applicants based on specific criteria and where only the most qualified students are admitted to the program. These programs often require preparatory coursework.

Limited Admissions

Limited Admissions programs are those that have strict limits on the number of students that may be enrolled in their programs based on space constraints, instructional capacity, program accreditation, clinical placement limitations, or other restrictive factors. These programs often require preparatory coursework and operate with a waiting list rather than a competitive application process.

Conditional Enrollment

Conditional Enrollment programs are those that require actions such as attendance at an information session, background checks, immunizations, successful completion of developmental courses, or other checklist items before students can enroll in the major courses.

Lists of Credit Degrees and Certificates

There are three lists of credit certificates and degrees:

- Career and Technical Education (CTE) Programs (WFD, CTD, CERT, CERA, and AAS)
- General Studies Programs (AGS)
- Transfer Programs (CERT, AA, AB, AFA and AS)

Campus legend:

DV	=	Desert Vista Campus
DC	=	Downtown Campus
EC	=	East Campus
NW	=	Northwest Campus
WC	=	West Campus

Career and Technical Education Programs

Program	Award	Program Code	Major Code	Concentration Code
Accounting				
Accounting-Enrolled Agent	CERT	CRTACE	ACE	
Accounting-Bookkeeping	CERT	CRTACT	ACT1	
Accounting	AAS	AASACCOUNTIN	ACC	
Archaeology				
Field Archaeology	CERT	CRTARF	ARF1	
Automated Industrial Technology				
Industrial Technology, Level I	CERT	CRTMCH	MCH	
Automated Industrial Technology, Level II	CERT	CRTAIN	AIN	
Automotive Technology				
Automotive Mechanics	CERT	CRTAUTOMECHS	AUM	
Automotive Technology	AAS	AASAUTOTECHN	AUT	
Aviation Technology				
Aviation Technology	AAS	Selective Program - See Program Display		
Concentrations:				
Airframe Mechanics				
Powerplant				
Structural Repair				
Aircraft General Mechanics	CERT	Selective Program - See Program Display		
Aircraft Airframe Mechanics	CERT	Selective Program - See Program Display		
Aircraft Powerplant Mechanics	CERT	Selective Program - See Program Display		
Aircraft Structural Repair	CERT	Selective Program - See Program Display		
Avionics Technician	CERT	Selective Program - See Program Display		
Behavioral Health Services				
Behavioral Health Services	CERT	CRTBHS	BHS1	
Bioscience Laboratory Technician				
Biosciences Laboratory Technician	CERT	CRTBLT	BLT	
Building and Construction Technologies				
Building & Construction Technologies	AAS	AASBCT	BCT1	
Cabinetmaker	CERT	CRTCMK	CMK1	

* The lead campus is the only campus to offer all courses required for the certificate or degree. Other campuses may offer only introductory course(s) for the certificate or degree. Check the class schedule for the courses offered on each campus.

** Special Admissions Requirements—See an advisor

Career and Technical Education Programs *(continued)*

Program	Award	Program Code	Major Code	Concentration Code
Carpenter	CERT	CRTCPT	CPT1	
Electrician	CERT	CRTELE	ELE1	
Energy Technology, Level I	CERT	CRTENB	ENB	
Energy Technology, Level II	CERT	CRTENA	ENA	
HVAC-R Technician	CERT	CRTHVA	HVA1	
Plumber	CERT	CRTPLM	PLM1	
Business				
Basic Business	CERT	CRTBUSINES-B	BUB1	
Advanced Business	CERT	CRTBUSINES-A	BUA1	
Business	AAS	AASBUS	BUS1	
Clinical Research Trial Coordinator				
Clinical Research Coordinator	AAS	Selective Program - See Program Display		
Computer-Aided Design				
Computer-Aided Design	AAS	AASELECMECHN	CAD1	
Concentrations:				
Construction				DFTC
Mechanical/Electro-Mechanical				DFTA
CAD Technician	CERT	CRTCDDT	CDT1	
Civil Engineering CAD Technician	CERT	CRTCIV	CIV1	
Revit Technician	CERT	CRTREV	REV1	
SolidWorks Designer	CERT	CRTSWD	SWD1	
Architectural Technician	CERT	CRTACH	ACH1	
Mechanical Designer/CNC Programmer	CERT	CRTMDC	MDC1	
Mechanical/Electro-Mechanical Designer	CERT	CRTMEM	MEM1	
Computer Information Systems				
Computer Programmer/Analyst	AAS	AASCPM	CPM	
Concentrations:				
Applied Programming				CPMA
Cyber Operations Programming				CPMC
Systems Administration Networking	AAS	AASCOMPSYSAD	CSN1	
Culinary				
See Hospitality				
Dental Studies				
Dental Assisting Education	CERT	Selective Program - See Program Display		
Dental Hygiene	AAS	Selective Program - See Program Display		
Dental Laboratory Technology	AAS	Selective Program - See Program Display		
Digital Arts				
Digital Arts	AAS	AASCOMMGRAPH	DAR1	
Concentrations:				
Design				DARD
Web Design				DARW
Digital Film Arts and Animation	AAS	AASDAA	DAA	
Concentrations:				
Digital and Film Arts				DAAF
Digital Animation				DAAA

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** Special Admissions Requirements—See an advisor

Career and Technical Education Programs *(continued)*

Program	Award	Program Code	Major Code	Concentration Code
Digital Game & Simulation Concentrations: Digital Animation and Production Digital Programming	AAS	AASDAG	DAG1	DAGA DAGP
Education				
Early Childhood Education and Child Development Associate				
Early Childhood Studies - Child Development Associate (CDA) Preparation	CERT	Selective Program - See Program Display		
Early Childhood Assistant Educator	CERT	Selective Program - See Program Display		
Early Childhood Studies	AAS	Selective Program - See Program Display		
Teacher Education				
Elementary Certification	CERA	Selective Program - See Program Display		
Secondary Certification	CERA	Selective Program - See Program Display		
Special Education Mild-Moderate Disability Certification	CERA	Selective Program - See Program Display		
Special Education Mild-Moderate Disability Certification for Certified Teachers	CERA	Selective Program - See Program Display		
Emergency Medical Technology				
Emergency Medical Technology	CERT	Selective Program - See Program Display		
EMT Paramedic	AAS	Selective Program - See Program Display		
Fashion Design				
Fashion Design	CERT	CRTFDC	FDC	
Fire Science				
Fire Science Academy Track	CERT	Selective Program - See Program Display		
Fire & Emergency Services Higher Education (FESHE)	AAS	Selective Program - See Program Display		
Fitness and Sport Sciences				
Fitness Professional	CERT	CRTFITNESS	FSP1	
Fitness and Wellness Specialist	CERT	CRTFWS	FWS	
Health Information Management				
Health Information Technology	AAS	AASOAH	OA11	
Medical Billing and Coding	CERT	CRTOAH	OAM1	OAHB
Hospitality				
Culinary Fundamentals	CERT	Selective Program - See Program Display		
Advanced Culinary Arts	CERT	Selective Program - See Program Display		
Baking and Pastry Arts	CERT	Selective Program - See Program Display		
Culinary Arts	AAS	Selective Program - See Program Display		
Hotel and Restaurant Management	CERT	CRTHRM	HRC	
Human Resources				
Human Resources	CERT	CRTHUMANRES	HRS1	
Justice Professions				
Law Enforcement Academy	CERT	Selective Program - See Program Display		

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** Special Admissions Requirements—See an advisor

Career and Technical Education Programs *(continued)*

Program	Award	Program Code	Major Code	Concentration Code
Justice Professions Concentrations: Administration of Justice Law Enforcement	AAS	AASJUS	JUS	JUSD
Selective Program - See Program Display				
Logistics and Supply Chain Management				
Logistics and Supply Chain Management (Basic)	CERT	CRTLGC	LGC1	
Logistics and Supply Chain Management	AAS	AASLGM	LGM1	
Legal Assistant				
See Paralegal				
Machine Tool Technology				
Machine Tool Technology	AAS	AASMAC	MAC1	
Machining Inspection and Quality Assurance	CERT	CRTMIN	MIN	
Computer Numerical Control (CNC) Operator	CERT	CRTCNO	CNO	
Massage				
See Therapeutic Massage				
Medical Assistant				
Medical Assistant	CERT	Selective Program - See Program Display		
Medical Laboratory Technician				
Medical Laboratory Technician	AAS	Selective Program - See Program Display		
Nursing				
Associate Degree Nursing	AAS	Selective Program - See Program Display		
Paralegal				
Paralegal	AAS	AASLEGALASST	LAS1	
Paralegal	CERA	Selective Program - See Program Display		
Pharmacy Technology				
Pharmacy Technology	CERT	Selective Program - See Program Display		
Phlebotomy				
Phlebotomy	CERT	Selective Program - See Program Display		
Radiologic Technology				
Radiologic Technology	AAS	Selective Program - See Program Display		
Respiratory Care				
Respiratory Care	AAS	Selective Program - See Program Display		
Social Services				
Social Services	AAS	AASSOCIALSRV	SSE1	
Substance Use Disorder Specialty	AAS	AASSUBSTABUS	SSS	
Basic Social Services	CERT	CRTSOCIALSRV	SSC	
Substance Use Disorder	CERT	CRTSUBSTABUS	SSA	

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** Special Admissions Requirements—See an advisor

Career and Technical Education Programs *(continued)*

Program	Award	Program Code	Major Code	Concentration Code
Therapeutic Massage				
Therapeutic Massage	CERT	Selective Program - See Program Display		
Translation and Interpretation Studies				
Translation & Interpretation Studies	CERT	Selective Program - See Program Display		
Truck Driver Training				
Class A Vehicle Driver	CERT	Selective Program - See Program Display		
Coach/Transit Bus Driver	CERT	Selective Program - See Program Display		
Veterinary Technology (Veterinary Nursing)				
Veterinary Practice Assistant	CERT	CRTVEP	VEP	
Veterinary Technician	AAS	Selective Program - See Program Display		
Welding				
Welding and Fabrication	AAS	AASWELDING	WLD1	
Welding (Basic)	CERT	CRTWLB	WLB	
Fabrication Welding (Advanced)	CERT	CRTWLF	WLF	

General Studies

Program	Award	Program Code	Major Code	Concentration Code
General Studies	AGS	<i>Under Review - No students are being admitted at the time the catalog was published</i>		

Transfer Programs

Program	Award	Program Code	Major Code	Concentration Code
Arizona General Education Curriculum (AGEC) CERT				
AGEC-A (Liberal Arts)		CRTLBRALART	ACA	
AGEC-B (Business Administration)		CRTBUSNADMIN	ACB	
AGEC-S (Science/Technology)		CRTSCIENCE	ACS	
Arts, Fine				
Associate of Fine Arts Degree, Visual and Performing Arts	AFA	AFAFINEARTS	AFA1	
Concentrations:		Selective Program - See Program Display		
Music				AFAT
Theater				AFAT
Visual Arts				AFAT
Business				
Business Administration	ABUS	AOBBUSIADMIN	BUD1	
Honors Program				
Honors Program	CERT	Special Admissions**		

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** Special Admissions Requirements—See an advisor

Liberal Arts

Associate of Arts	AA	AOAALA	ALA1	
Concentrations:				
General				ALAG
Administration of Justice				ALAJ
American Sign Language and Interpretation Studies				ASLI
Anthropology				ALAA
Communication				ALAC
Early Childhood Education				ALAE
Elementary Education				ALAD
English				ALAN
Ethnic, Gender and Transborder Studies				EGTS
Fashion Design				ALAF
History				ALAH
Hotel and Restaurant Management				ALAR
Political Science				ALAO
Psychology				ALAP
Social Services				ALAV
Sociology				ALAS
Translation and Interpretation Studies				Selective Program - See Program Display

Science

Associate of Science	AS	AOSASI	ASI1	
Concentrations:				
General				ASIG
Biology				ASIB
Chemistry				ASIC
Pre-Engineering				ENGR

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** Special Admissions Requirements—See an advisor

Accounting

Learn the skills and knowledge needed for bookkeeping, tax, and accounting careers. Students interested in becoming a certified public accountant should refer to the Business Administration transfer program.

Accounting — Enrolled Agent Certificate

Enrolled Agents are licensed by the Federal Government (IRS) and have demonstrated special competence in tax matters, professional ethics, and can practice before the IRS anywhere in the United States. This accounting certificate allows students to gain the practical skills needed to take the IRS Special Enrollment Examination (SEE). The SEE is a three-part exam administered by Prometrics on behalf of the IRS; a student must successfully pass this to receive IRS Enrolled Agent certification.

What can I do with this certificate?

Career Options: Enrolled Agents are needed in small and large public accounting firms, law firms, corporate accounting departments, state departments of revenue, investment firms, banks, and in private practice.

Academic Options: Continue your studies by taking classes toward an Accounting Associate of Applied Science degree or explore business transfer options.

Gainful Employment Information: www.pima.edu/ge-crtace

Department/Contact Information:

Dean: 520-206-7694

Department Head: 520-206-2298

Program/Major Codes: **CRTACE/ACE**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation		
ACC 204	Individual Tax Accounting	3
ACC 205	Corporate and Partnership Tax Accounting	4
ACC 206	Topics in Tax Accounting	3
ACC 207	IRS Enrolled Agent Exam.	3
ACC 292	Volunteer Income Tax Preparation Field Experience	3
Total credits as displayed		16

Accounting — Bookkeeping Certificate

Understand business practices and learn specific accounting skills.

What can I do with this certificate?

Career Options: Entry-level bookkeeping and accounting positions

Gainful Employment Information: www.pima.edu/ge-crtact

Department/Contact Information:

Dean: 520-206-7694

Lead Faculty: 520-206-7264

Program/Major Codes: **CRTACT/ACT1**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation		
ACC 100	Practical Accounting Procedures	3
ACC 150*	Payroll Accounting	3

ACC	200*	Computerized Accounting I	3
ACC	204*	Individual Tax Accounting	3
ACC	211*	Financial Accounting SUN# ACC 2201	3
ACC	281*	QuickBooks Computer Accounting	3
BUS	148	Ethics in the Workplace	3
BUS	151*	Business Math	3
CSA	110*	Spreadsheets: Microsoft Excel	3
STU	100	College Success and Career Planning	1
WRT	154*	Career Communications	3
Total credits as displayed			31

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Accounting — Associate of Applied Science Degree for Direct Employment

Learn the theory, systems and basic problems of business accounting.

What can I do with this degree?

Career Options: Entry-level positions in private, public and government accounting.

Academic Options: Continue your studies by taking other business programs or work to complete a [Bachelor of Applied Science](#) program.

Department/Contact Information:

Dean: 520-206-7694

Department Head: 520-206-2298

Program/Major Codes: **AASACCOUNTIN/ACC**

General Education Requirements - A grade of C or better is required for graduation

Communication Requirement	3
Recommend: WRT 154	
Arts and Humanities Requirement	3
Recommend: ART 105, HIS 142, or PHI 101	
Social and Behavioral Sciences Requirement	3
Recommend: ECN 150	
Mathematics and Science Requirement	3
Recommend: BUS 151	
Other Requirement	3
Recommend: CMN 120	
Special Requirement	
Recommend: CMN 120	
Subtotal	15

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

ACC	100	Practical Accounting Procedures	3
ACC	150*	Payroll Accounting	3
ACC	200*	Computerized Accounting I	3
ACC	204*	Individual Tax Accounting	3
ACC	205*	Corporate and Partnership Tax Accounting	4
ACC	211*	Financial Accounting SUN# ACC 2201	3
ACC	212*	Managerial Accounting SUN# ACC 2202	3
ACC	221*	Intermediate Accounting I	3
ACC	233*	Cost Accounting	3
ACC	281*	QuickBooks Computer Accounting	3
ACC	296	Independent Study in Accounting	1

Choose from one of the following focuses:**Tax Focus (complete all 3 courses)**

ACC 206	Topics in Tax Accounting.	3
ACC 207	IRS Enrolled Agent Exam.	3
ACC 292	Volunteer Income Tax Preparation Field Experience	3

Bookkeeping Focus (choose 2 courses from the following list)

ACC 250*	Certified Bookkeeper Review	3
ACC 273*	Governmental Accounting.	3
ACC 290	Internship in Accounting	3

Subtotal. 38-41

Required Support Courses

BUS 148	Ethics in the Workplace.	3
CSA 110*	Spreadsheets: Microsoft Excel	3
STU 100	College Success and Career Planning.	1

Subtotal. 7

Total credits as displayed 60-63

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

Archaeology

Field Archaeology Certificate for Direct Employment

Dig into the past by studying archaeological fieldwork. Courses are designed for those seeking professional skills, those working toward an Anthropology degree with an archaeology emphasis, as well as for those with a general interest in archaeology. This program emphasizes the preservation and conservation of resources and applied skills in archaeology, particularly related to the pre-history of southern Arizona.

What can I do with this certificate?

Career Options: Seek employment in entry-level archaeology positions.

Academic Options: Students planning to transfer to a four-year archaeology degree program should pursue an Anthropology AA degree simultaneously with this certificate.

Gainful Employment Information: www.pima.edu/ge-crtarf

Department/Contact Information:

Dean: 520-206-6996

Lead Faculty: 520-206-6905

Program/Major/Concentration Codes: **CRTARF/ARF1**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
ANT/ARC 101	Human Origins and Prehistory	3
ANT/ARC/GIS 181	Global Positioning Systems Basics	1
ANT/ARC/GEO/ GIS 265	Mapping Concepts	1
ANT/ARC 275	Archaeological Excavation I	3
ANT/ARC 276	Archaeological Surveying I	3
Subtotal.		11
Focus Areas - A grade of C or better is required for graduation.		
Complete one of the following focus areas.		10-15
Department faculty approval is recommended in the selection of the focus area.		
Southwestern Prehistory		
ANT 102 or ANT 112	Introduction to Cultural Anthropology and Linguistics	3
ANT/ARC 180	Artifact Identification: Tucson Basin	1
AIS/ANT/ARC 205	Introduction to Southwestern Prehistory	3
ANT/ARC 225	Principles of Archaeology	3
Subtotal.		10
Field Methods		
ANT/ARC 225	Principles of Archaeology	3
ANT/ARC 250*	Archaeology Laboratory	4
ANT/ARC 277* or ANT/ARC 278*	Archaeological Excavation II	3
ANT/ARC/GIS 281	Global Positioning Systems	1
ARC Elective	Elective in consultation with ARC faculty advisor	3
Subtotal.		14

Geospatial Information Studies and Technology

ANT/ARC/ GEO/GIS 267*	Introduction to Geographic Information Systems	3
ANT/ARC/ GIS 281	Global Positioning Systems	1
ANT/ARC/GEO/ GIS 284*	Computer Cartography and CAD	3
ANT/ARC/ GIS 286* or DAR 120	Electronic and Digital Field Mapping Applied Computer Graphics	3-4
ARC, CIS, DAR, Elective Elective in consultation with Archeology faculty advisor		3-4
Subtotal.		13-15
Total credits as displayed		21-26

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Fine Arts

Gain knowledge and experience working in a variety of media.

- Music Concentration
- Theater Concentration
- Visual Arts Concentration

Program/Major/Concentration Codes: **AFAFINEARTS/AFA1/****** (see concentration codes below)

Visual and Performing Arts — Associate of Fine Arts for Transfer — Music Concentration

Study music theory and performance while preparing to transfer to a four-year university.

What can I do with this concentration?

Academic Options: This program has been designed to match as closely as possible the first two years of a music degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-6690

Lead Faculty: Music 206-6826

Conditional Program/Major/Concentration Codes: **AFA9FINEARTS/9AFA/AFAM**

Conditional Enrollment Program: You will be eligible to enroll in MUS courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or an advisor for more information.

Arizona General Education Curriculum Requirements (AGEC-A) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts	†
MUS 125 and 201 fulfill this requirement.	
Biological and Physical Sciences	8
Recommend: BIO 100IN and 105IN	
Mathematics	3
Recommend: MAT 142	
Social and Behavioral Sciences	6
Recommend: ANT 112 and either HIS 101 or 141	
Other Requirements	3
MUS 202 fulfills 3 credits of this requirement. Complete a non-Humanities and Fine Arts course from this category.	
Recommend: CMN 102 or HUM 251 or PHI 120	
Special Requirements	
The I, C, and G requirement should be fulfilled by courses in the above categories.	
Recommend: ANT 112	
Subtotal.	26

Required Core Courses - A grade of C or better is required for graduation.

MUP 161-167*	Studio Instruction: I (Major)	2
MUP 171-177*	Studio Instruction: II (Major)	2
MUP 261-267*	Studio Instruction: III (Major)	2
MUP 271-277*	Studio Instruction: IV (Major)	2
MUS 125*	Structure of Music I	3
MUS 126*	Structure of Music II	3
MUS 127*	Aural Perception I	1
MUS 129*	Aural Perception II	1
MUS 141	Piano Class I (Majors)	1
MUS 142*	Piano Class II (Majors)	1
MUS 143*	Piano Class III (Majors)	1
MUS 144*	Piano Class IV (Majors)	1

MUS 201*	History and Literature of Music I	3
MUS 202*	History and Literature of Music II	3
MUS 223*	Structure of Music III SUN# MUS 2222**	3
MUS 224*	Aural Perception III SUN# MUS 2222**	1
MUS 226*	Structure of Music IV SUN# MUS 2223***	3
MUS 228*	Aural Perception IV SUN# MUS 2223***	1
Music Ensemble		4
Complete 4 credits from the following. A course may be taken more than once to fulfill this requirement:		
MUS 116*	Pima Community College Orchestra I	
MUS 117*	Pima Community College Orchestra II	
MUS 120*	Concert Band I	
MUS 121*	Concert Band II	
MUS 130*	Chorale (SATB)	
MUS 131*	College Singers (SATB)	
Subtotal.		38

Required Support Courses

STU 100	College Success and Career Planning	1
or STU 107	University Transfer Preparation and College Success	
Subtotal.		1
Total credits as displayed		65

† Core or support course(s) fulfill this requirement.

¥ The AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** Both MUS 223 and 224 must be completed in order to get the MUS 2222 SUN designation.

*** Both MUS 226 and 228 must be completed in order to get the MUS 2223 SUN designation.

Visual and Performing Arts — Associate of Fine Arts for Transfer — Theater Concentration

Study acting and theater production while preparing to transfer to a 4-year university.

What can I do with this concentration?

Academic Options: This program has been designed to match as closely as possible the first two years of a theatre degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-6690

Lead Faculty: Theater 206-6720

Concentration Code: **AFAT**

Arizona General Education Curriculum Requirements (AGEC-A) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts	3
THE 105 fulfills 3 credits of this requirement. Complete a course from the Humanities list	
Recommend: ANT 112, ART 130 or 131	
Biological and Physical Sciences	8
Recommend: two courses from BIO 100IN, 105IN, GLG 101IN, 102IN	
Mathematics	3
Social and Behavioral Sciences	6
Recommend POS 201 and SOC 201	
Other Requirements	6
Recommend: Either ANT 112 and HIS 141, and either ART 100, MUS 151, or 160	
Special Requirements	
THE 105 fulfills the C requirement. The I and G requirements should be fulfilled by completing appropriate courses in the above categories.	
Recommend: ANT 112	
Subtotal.	32¥

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
THE 105*	Theater Appreciation	3
THE 111	Stagecraft	3
THE 113	Stagecraft Crew	1
THE 121	Introduction to Theater Design	3
THE 125*	Theater Production	2
THE 149	Introduction to Acting I	3
THE 151*	Introduction to Acting II	3
THE 220	Stage Lighting	3
THE 222	Stage Lighting Crew	1
THE 245	Principles of Dramatic Structure SUN# THE 2220.....	3
THE 250	Acting: Auditioning for Theater	3
THE 251	Acting: Shakespeare and Classical Literature.....	3
Subtotal.		31
Required Support Courses		
STU 100 or STU 107	College Success and Career Planning..... University Transfer Preparation and College Success	1
Subtotal.		1
Total credits as displayed		64

† Core or support course(s) fulfill this requirement.

¥ AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Visual and Performing Arts — Associate of Fine Arts for Transfer — Visual Arts Concentration

Study a variety of art forms or learn art history while preparing to transfer to a 4-year university.

What can I do with this concentration?

Academic Options: This program has been designed to match as closely as possible the first two years of a visual arts degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-6690

Lead Faculty: 520-206-6882

Concentration Codes: **AFAV**

Arizona General Education Curriculum Requirements (AGEC-A) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts.....	†
ART 100 and 130 fulfill this requirement.	
Biological and Physical Sciences	8
Mathematics.....	3
Social and Behavioral Sciences	6
Other Requirements	†
ART 110 and 131 fulfill this requirement.	
Special Requirements	
ART 130 fulfills the I and G requirements. The C requirement should be fulfilled by a course in the Social and Behavioral Sciences category.	
Subtotal.	23¥

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
ART 100	Basic Design	3
ART 110*	Drawing I SUN# ART 1111	3
ART 115*	Color and Composition	3
ART 120*	3DI Design SUN# ART 1115	3
ART 130	Art and Culture: Prehistoric Through Gothic SUN# ART 1101	3
ART 131	Art and Culture: Late Gothic Through Modern Periods SUN# ART 1102	3
ART 210* or ART 213*	Drawing II	3
	Life Drawing I	3
ART 289	Art Portfolio Capstone	1
Art Electives		
Complete five courses from any of the following categories:		15-17
(These courses cannot double-dip with General Education or Required Core Courses)		
Art in the Craft Media		
ART 160*	Ceramics I	3
ART 170*	Metalwork I: Jewelry	3
ART 180*	Weaving I: Four-Harness Loom	3
ART 181*	Mixed Media Fibers	3
ART 260*	Ceramics II	3
ART 261*	Ceramics III	3
ART 262*	Ceramics IV	3
ART 270*	Metalwork II: Jewelry	3
ART 280*	Weaving II	3
ART 296I2*	Independent Study in ART: Ceramics	3
ART 296I8*	Independent Study in ART: Fibers	3
Photography		
ART/DAR 128*	Digital Photography I	4
ART 140*	Photography I	3
ART 141*	Photography II	3
ART 147*	Alternative Processes in Photography	3
ART 248*	Individual Projects in Photography	3
ART 296I5*	Independent Study in ART: Photography	3
Art History		
ART 136	Body and Art	3
ART 296I1*	Independent Study in ART: Art History	3
Drawing, Painting, and Sculpture		
ART 106	Survey of Painting Materials and Techniques	3
ART 109	Watercolor Painting	3
ART 121*	Figure Sculpture	3
ART 210*	Drawing II (If not taken as a Required Core Course)	3
ART 213*	Life Drawing I (If not taken as a Required Core Course)	3
ART 215*	Painting I	3
ART 217*	Painting II	3
ART 220*	Sculpture	3
ART 296I4*	Independent Study in ART: Painting, Drawing, and Design	3
ART 296I7*	Independent Study in ART: Sculpture	3
Printmaking		
ART 212*	Printmaking I	3
ART 214*	Printmaking II	3
ART 216*	Screenprinting I	3
ART 218*	Screenprinting II	3
ART 219*	Printmaking III	3
ART 249*	Artists' Books	3

Second Language

Language course numbered 101	4
Language course numbered 102	4
Subtotal.	37-39

Required Support Courses- A grade of C or better is required for graduation.

STU 100	College Success and Career Planning.	1
or STU 107	University Transfer Preparation and College Success	
Subtotal.		1

Total credits as displayed **61-63**

† Core or support course(s) fulfill this requirement.

¥ AGECE requires 35 credits. This subtotal shows the AGECE credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Automated Industrial Technology

Industrial Technology Level I — Certificate for Direct Employment

Assist in the design, assembly, development, testing, and repair of automation control, electrical, mechanical, and electronic components. Includes preparation for National Institute of Metalworking Skills (NIMS) certification exams. Prepare to troubleshoot, maintain, and repair a variety of automated electro-mechanical, product assembly and product distribution systems that use other methodologies to accomplish system management. These systems include mechanical, hydraulic, pneumatic, electrical and electronic devices. Through this certificate, graduates will gain the skills to design, install, and maintain complex production systems. Includes preparation for National Institutes of Metalworking Skills (NIMS) certification exams.

What can I do with this certificate?

Career Options: Entry-level employment as an Automation Engineer Technician, Electronics Assembly Technician, or Maintenance and Instrumentation Technician in the manufacturing, defense, energy/utility, mining, or healthcare industries.

Academic Options: Pursue the Automated Industrial Technology Level II certificate.

Gainful Employment Information: www.pima.edu/ge-crtmch

Department/Contact Information:

Dean: 520-206-7134

Program/Major Codes: **CRTMCH/MCH**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
AIT 100**	OSHA 10 for the Construction Industry/Industrial Safety	1
AIT 105*	Introduction to Manufacturing and Automation/Maintenance Operations	3
AIT 110*	Electrical and Electronic Mechanical Systems	3
AIT 115*	Electronics Assembly/Hydraulic Systems	3
AIT 120*	Manufacturing Mechanics/Pneumatics Systems	3
AIT 125*	Fluid Power/Electrical Systems I	3
Total credits as displayed		16

Automated Industrial Technology Level II — Certificate for Direct Employment

Build upon the Automated Industrial Technology Level I certificate and prepare to troubleshoot, maintain, and repair a variety of automated electro-mechanical, product assembly, process control, and product distribution systems that use programmable controls and other methodologies to accomplish system management. These systems include robotic, mechanical, hydraulic, pneumatic, electrical and electronic devices. Through this degree, graduates will gain the skills to define, integrate, install, program, and maintain complex control systems. Includes preparation for National Institute of Metalworking (NIMS) certification exams.

What can I do with this concentration?

Career Options: Entry-level employment as an Automation Engineer Technician, Electronics Assembly Technician, or Maintenance and Instrumentation Technician in the manufacturing, defense, energy/utility, mining, or healthcare industries.

Academic Options: Pursue the Automated Industrial Technology Associate of Applied Science Degree.

Gainful Employment Information: <http://www.pima.edu/ge-crtait>

Department/Contact Information:

Dean: 520-206-7134

Program/Major Codes: **CRTAIN/AIN**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
AIT 100**	Industrial Safety	1
AIT 105*	Maintenance Operations	3
AIT 110*	Mechanical Systems	3
AIT 115*	Hydraulic Systems	3
AIT 120*	Pneumatics Systems	3
AIT 125*	Electrical Systems I	3
AIT 130*	Maintenance Piping	3
AIT 205*	Electronic Control Systems I	3
AIT 210*	Electronic Control Systems II	3
AIT 215*	Process Control Systems	4
AIT 225*	Electrical Systems II	3
Total credits as displayed		32

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** BCT110 substitutes for AIT 100.

Automotive Technology

Begin a career as an auto mechanic, or expand your skills and attain higher-level positions. Classes are hands-on and self-paced. The program is accredited by the National Automotive Technician Education Foundation (NATEF).

Automotive Mechanics — Certificate for Direct Employment

From engine diagnosis and repair to electrical fundamentals, steering and alignment, and brakes, cover the basics of auto mechanics.

What can I do with this certificate?

Career Options: Entry-level auto mechanic or technician.

Academic Options: Continue your studies with the AAS in Automotive Technology.

Gainful Employment Information: www.pima.edu/ge-crtautomechs

Department/Contact Information:

Dean: 520-206-7134

Auto Lab: 520-206-7190

Program/Major Codes: **CRTAUTOMECHS/AUM**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
AUT 100	Small Engine Troubleshooting & Repair	3
AUT 101	Automotive Maintenance	3
AUT 105	Light Line Maintenance	3
AUT 120	Engine Diagnosis and Repair	3
AUT 128	Automotive Electrical Fundamentals and Applications	3
AUT 139	Automotive Steering and Alignment Systems	3
AUT 140	Automotive Brakes Diagnosis and Repair	3
Total credits as displayed		21

Automotive Technology — Associate of Applied Science Degree for Direct Employment

From steering and suspension to engines and electrical systems, understand car repair inside and out. Master the basics and prepare for entry-level positions or choose additional advanced courses.

What can I do with this degree?

Career options: Auto mechanic or technician, service writer, parts specialist or auto sales positions.

Academic Options: This program may apply toward a Bachelor of Applied Science (BAS). See an advisor.

Department/Contact Information:

Dean: 520-206-7134

Auto Lab: 520-206-7190

Program/Major Codes: **AASAUTOTECHN/AUT**

Course Number	Course Title	Credit Hours
General Education Requirements - A grade of C or better is required for graduation.		
Course lists for each General Education category listed below can be found starting on page 49.		
Communication Requirement		3
Recommend: GTW 101		
Arts and Humanities Requirement		3
Recommend: PHI 101		

Social and Behavioral Sciences Requirement	3
Recommend: HIS 101	
Mathematics or Science Requirement	3
Recommend: GTM 105	
Other Requirement	3
Recommend: CMN 120	
Special Requirement	
Recommend: CMN 120	
Subtotal.	15¥

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
AUT 100	Small Engine Troubleshooting and Repair	3
AUT 101	Automotive Maintenance	3
AUT 105	Light Line Maintenance	3
AUT 120	Engine Diagnosis and Repair	3
AUT 122	Engine Remove and Install	3
AUT 124	Automotive Diesel Engine Tune-Up	3
AUT 126	Engine Performance and Drivability Troubleshooting	3
AUT 128	Automotive Electrical Fundamentals and Applications	3
AUT 129	Automotive Electrical Accessories	3
AUT 132	Automotive Drivetrain Removal and Replacement	3
AUT 133	Automatic Transmission/Transaxle Service and Rebuilding	3
AUT 136	Automotive Manual Transmission and Driveline Service	3
AUT 138	Automotive Suspension Systems	3
AUT 139	Automotive Steering and Alignment Systems	3
AUT 140	Automotive Brakes Diagnosis and Repair	3
AUT 142	Automotive Heating, Ventilation, and Air Conditioning	3
Subtotal.		48

Required Support Courses

STU 100	College Success and Career Planning.....	1
Electives	.....	3-5
Complete 3-5 credits at the 100 level or higher from the following: BUS 151, CIS, CSA, MAC 275, MGT, WLD		
Subtotal.		4-5

Total credits as displayed **67-69**

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description.

Aviation Technology

Aviation Technology — Associate of Applied Science for Direct Employment

Gain skills and knowledge of Airframe and Powerplant, or Structural Repair.

The Airframe and Powerplant courses are taught per Federal Aviation Regulations Part 147 for FAA Aviation Maintenance Technician training to allow a student to be qualified for Airframe and Powerplant certification. Aviation Structural Repair has been offered as specialty training and does not fall under FAA Part 147 guidelines. Instead it is an industry directed curriculum preparing students to perform heavy structural repairs that exceed the requirements of Part 147 Airframe and Powerplant training.

Before enrolling in this program, students must attend an Aviation Technology orientation and submit the following:

- Negative alcohol and drug screening test.

NOTE: AVM courses have reading and math prerequisites: REA 091 (or higher) or placement into REA 112; and ICS 081, MAT 089 Module 15; or placement into MAT 092.

What can I do with this degree?

Career Options: Work in the aircraft industry as an Aviation Maintenance Technician.

Academic Options: Academic Options: This program may apply toward a Bachelor of Applied Science (BAS). See an advisor.

Department/Contact Information:

Dean: 520-206-7134

Lead Faculty: 520-206-5910

Conditional Program/Major code: **AASAVIATION/9AVM**

Conditional Enrollment Program: You will be eligible to enroll in AVM courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Students pursuing the Airframe Mechanics and/or Powerplant concentrations must complete the General Mechanics certificate courses before enrolling in the Airframe Mechanics or Powerplant courses.

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	3
Recommend: GTW 101	
Arts and Humanities Requirement	3
Recommend: PHI 101	
Social and Behavioral Science Requirement	3
Recommend: HIS 101	
Mathematics and Science Requirement	†
GTM 105V fulfills this requirement	
Other Requirements	3
Recommend: CIS/CSA 104	
Special Requirement	
Recommend: HIS 101	
Subtotal.	12

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
AVM 110S	Aircraft Blueprint Reading	3
AVM 114S	Regulatory Requirements	3
AVM 205S	Motion Dynamics	2.5
AVM 206S	Materials and Processes	2.5
Subtotal.		11

Required Support Courses

GTM 105V*	Applied Technical Mathematics for Aviation	3
STU 100	College Success and Career Planning.....	1
Subtotal	.....	4

Core Concentrations - A grade of C or better is required for graduation.

Complete one of the following concentrations..... 35-37.5

Airframe Mechanics (Concentration Code: AVMR)

AVM 105	Aircraft Sheet Metal Repair I	4
AVM 130*	Aircraft Composite Repair I	4
AVM 202§	Aviation Safety	2.5
AVM 207§	Weight and Balance	2.5
AVM 208§	Basic Electricity.....	4
AVM 209*	Intermediate Electricity	4
AVM 211	Alternate Structures	4
AVM 218	Airframe Rigging and Landing Gear Systems	2.5
AVM 219*	Airframe Inspections	2.5
AVM 223	Hydraulic and Pneumatic Power	2.5
AVM 224	Atmospheric Controls	2.5
AVM 225	Fire, Ice, Rain and Fuel Systems	2.5
Subtotal	.....	37.5

Powerplant (Concentration Code: AVMO)

AVM 202§	Aviation Safety	2.5
AVM 207§	Weight and Balance	2.5
AVM 208§	Basic Electricity.....	4
AVM 226*	Engine Electrical Systems	4
AVM 227	Engine Air Flow Systems	2.5
AVM 228	Aircraft Propellers	2.5
AVM 229	Engine Support Systems	2.5
AVM 231	Engine Principles, Monitoring, and Inspection	4
AVM 232	Reciprocating Engine Overhaul	4
AVM 233	Turbine Engines	4
AVM 234	Engine Fuel Metering and Operation	4
Subtotal.	.....	36.5

Structural Repair (Concentration Code: AVMU)

AVM 105	Aircraft Sheet Metal Repair I	4
AVM 106*	Aircraft Sheet Metal Repair II	4
AVM 130*	Aircraft Composite Repair I	4
AVM 150*	Aircraft Sheet Metal Repair III	4
AVM 151*	Aircraft Sheet Metal Repair IV	4
AVM 165	Aircraft Hardware and Fasteners	3
AVM 203*	Aircraft Sheet Metal Repair V	4
AVM 204*	Aircraft Sheet Metal Repair VI	4
AVM 260*/260LB*	Aircraft Composite Repair II/Lab	4
Subtotal	.....	35

Total credits as displayed **62-64.5**

† Core or support course(s) fulfill this requirement.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

§ These courses are requirements for the Aircraft General Mechanics Certificate and must be completed prior to the other courses in the Airframe and the Powerplant concentrations.

Aircraft General Mechanics — Certificate for Direct Employment

Gain basic skills in General Mechanics.

What can I do with this certificate?

Career Options: Entry-level positions in aircraft maintenance and repair.

Academic Options: Take additional courses toward the Aviation Technology AAS degree.

Gainful Employment Information: www.pima.edu/ge-crtagm

Department/Contact Information:

Dean: 520-206-5250

Lead Faculty: 520-206-5910

Conditional Program/Major code: **CTRAGM/9AGM**

Conditional Enrollment Program: You will be eligible to enroll in AVM courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information..

Students must complete the General Mechanics courses before enrolling in the Powerplant courses.

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
AVM 110	Aircraft Blueprint Reading	3
AVM 114	Regulatory Requirements	3
AVM 202	Aviation Safety	2.5
AVM 205	Motion Dynamics	2.5
AVM 206	Materials and Processes	2.5
AVM 207*	Weight and Balance	2.5
AVM 208*	Basic Electricity	4
GTM 105V**	Applied Technical Mathematics for Aviation	3
Total credits as displayed		.23

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** GTM 105V fulfills 3 credits in the Mathematics category in the AAS Aviation Technology degree.

Aircraft Powerplant Mechanics — Certificate for Direct Employment

Gain basic skills in Powerplant Mechanics.

Before enrolling in this program, students must attend an Aviation Technology orientation and submit the following:

- Negative alcohol and drug screening test.

NOTE: AVM courses have reading and math prerequisites: REA 091 (or higher) or placement into REA 112; and ICS 081, MAT 089 Module 15; or placement into MAT 092.

What can I do with this certificate?

Career Options: Entry-level positions in aircraft maintenance and repair.

Academic Options: Take additional courses toward the Aviation Technology AAS degree.

Department/Contact Information:

Dean: 520-206-5250

Lead Faculty: 520-206-5910

Conditional Program/Major Code: **CRTAPP/9APP**

Conditional Enrollment Program: You will be eligible to enroll in AVM courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Program Prerequisites

Students must have completed the following prerequisites (with grades posted) before they may begin the application process.

Aircraft General Mechanics Certificate	23
Subtotal.	23

Students must complete the General Mechanics courses before enrolling in the Powerplant courses.

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
AVM 226*	Engine Electrical Systems	4
AVM 227	Engine Airflow Systems	2.5
AVM 228*	Aircraft Propellers	2.5
AVM 229*	Engine Support Systems	2.5
AVM 231	Engine Principles, Monitoring and Inspection	4
AVM 232	Reciprocating Engine Overhaul	4
AVM 233	Turbine Engines	4
AVM 234*	Engine Fuel Metering and Operation	4
Total credits as displayed		27.5

Aircraft Airframe Mechanics — Certificate for Direct Employment

Gain basic skills in Airframe Mechanics.

Before enrolling in this program, students must attend an Aviation Technology orientation and submit the following:

- Negative alcohol and drug screening test.

NOTE: AVM courses have reading and math prerequisites: REA 091 (or higher) or placement into REA 112; and ICS 081, MAT 089 Module 15; or placement into MAT 092.

What can I do with this certificate?

Career Options: Combine with the General Mechanics (and Powerplant) certificates for an entry-level position in aircraft building, maintenance and repair.

Academic Options: Take additional courses toward the Aviation Technology AAS degree.

Gainful Employment Information: www.pima.edu/ge-crtam

Department/Contact Information:

Dean: 520-206-7134

Lead Faculty: 520-206-5910

Conditional Program/Major Code: **CRTAAM/9AAM**

Conditional Enrollment Program: You will be eligible to enroll in AVM courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Program Prerequisites

Aircraft General Mechanics Certificate.	23
Subtotal.	23

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
AVM 105	Aircraft Sheet Metal Repair I	4
AVM 130*	Aircraft Composite Repair I	4
AVM 209*	Intermediate Electricity	4
AVM 211	Alternate Structures	4
AVM 218	Airframe Rigging and Landing Gear Systems	2.5
AVM 219*	Airframe Inspections	2.5

AVM 223	Hydraulic and Pneumatic Power	2.5
AVM 224	Atmospheric Controls	2.5
AVM 225	Fire, Ice, Rain, and Fuel Systems	2.5
Total credits as displayed		28.5

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Aircraft Structural Repair — Certificate for Direct Employment

Gain basic skills in Structural Repair.

Before enrolling in this program, students must attend an Aviation Technology orientation and submit the following:

- Negative alcohol and drug screening test.

NOTE: AVM courses have reading and math prerequisites: REA 091 (or higher) or placement into REA 112; and ICS 081, MAT 089 Module 15; or placement into MAT 092.

What can I do with this certificate?

Career Options: An entry-level position in aircraft building, maintenance and repair.

Academic Options: Take additional courses toward the Aviation Technology AAS degree.

Gainful Employment Information: www.pima.edu/ge-crtasr

Department/Contact Information:

Dean: 206-7134

Lead Faculty: 206-5910

Conditional Program/Major Code: **CRTASR/9ASR**

Conditional Enrollment Program: You will be eligible to enroll in AVM courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information..

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
AVM 105	Aircraft Sheet Metal Repair I	4
AVM 106*	Aircraft Sheet Metal Repair II	4
AVM 110	Aircraft Blueprint Reading	3
AVM 130	Aircraft Composite Repair I	4
AVM 150*	Aircraft Sheet Metal Repair III	4
AVM 151*	Aircraft Sheet Metal Repair IV	4
AVM 165	Aircraft Hardeners and Fasteners.....	3
AVM 203*	Aircraft Sheet Metal Repair V	4
AVM 204*	Aircraft Sheet Metal Repair VI	4
AVM 205	Motion Dynamics	2.5
AVM 206	Materials and Processes	2.5
AVM 260*/260LB*	Aircraft Composite Repair II/Lab	4
GTM 105V*	Applied Technical Math for Aviation.....	3
Total credits as displayed		46

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Avionics Technician — Certificate for Direct Employment

Master the broad range of skills needed to work with aircraft electronics including GPS systems, autopilot, communication systems, and weather radar. Learn avionics installation, operating systems, troubleshooting and system integration.

Before enrolling in this program, students must attend an Aviation Technology orientation and submit the following:

- Negative alcohol and drug screening test.

NOTE: AVM courses have reading and math prerequisites: REA 091 (or higher) or placement into REA 112; and ICS 081, MAT 089 Module 15; or placement into MAT 092.

What can I do with this certificate?

Career Options: Seek entry-level positions in aircraft avionics, diagnostics, maintenance and repair.

Academic Options: Continue your studies by taking additional courses toward the Aviation Technology AAS degree.

Gainful Employment Information: www.pima.edu/ge-crtavn

Department/Contact Information:

Dean: 520-206-7134

Lead Faculty: 520-206-5910

Conditional Program/Major Code: **CRTAVN/9AVN**

Conditional Enrollment Program: You will be eligible to enroll in ATT courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
ATT 100*	Basic Electricity for Avionics	3
ATT 101*	Avionics Familiarization	3
ATT 102*	Aircraft Electrical Systems	3
ATT 103*	Basics of Avionics Installation	3
ATT 104*	Operating Systems I, Communication and Navigation	4
ATT 201*	Operating Systems II, GPS Navigation and Autopilot	3
ATT 202*	GPS Navigation and Autopilot Installation	5
ATT 203*	Avionics Test Equipment	4
ATT 204*	Glass Cockpit Installer	5
ATT 205*	Operating Systems III, Infrared and Weather Radar	3
ATT 206*	Infrared and Weather Radar Installation	5
GTM 105V*	Applied Technical Math for Aviation	3
Total credits as displayed		44

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Behavioral Health Services

Learn to work in a clinical behavioral health care setting and deliver basic behavioral health services. This program includes training within laboratory and clinical settings.

Before enrolling in this program, students must submit the following:

- Health Declaration
- Signed acknowledgement of receipt of drug screening policy
- Proof of health insurance (highly recommended)
- Residency affidavit
- Obtain an Arizona DPS Fingerprint Clearance Card.
- CPR/first aid certification (healthcare provider level)
- Proof of immunizations: Hepatitis B, MMR, Varicella, TDAP
- TB Test (negative result or a negative chest X-ray)

Behavioral Health Services — Certificate for Direct Employment

What can I do with this certificate?

Career Options: Seek an entry-level position or career advancement as a behavioral health specialist, human services technician, family advocate, or paraprofessional analyst in hospitals, behavioral health clinics, nursing care facilities, or nonprofit agencies.

Academic Options: Complete the additional courses needed to pursue a Social Services certificate or a Social Services degree.

Gainful Employment Information: www.pima.edu/ge-crtbhs

Department/Contact Information:

Dean: 520-206-5142

Conditional Program/Major Codes: **CRTBHS/9BHS**

Conditional Enrollment Program: You will be eligible to enroll in BHS courses once you have completed the requirements listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Core Course - A grade of C or better is required for graduation.		
BHS 132	Communication Skills in Behavioral Health Services	3
BHS 154*	Behavioral Health Lab and Safety Protocol	3
BHS 172	Clinical Behaviors	3
BHS 189LC*	Behavioral Health Clinical - Basic	1
BHS 250*	Case Documentation	2
SSE 128	Introduction to Behavioral Health	3
SSE 204*	Counseling in a Multicultural Setting	3
Total credits as displayed		18

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Bioscience Laboratory Technology

Learn the science fundamentals to work in a bioscience laboratory for immediate employment. Bioscience Laboratory Technicians set up, maintain, and clean laboratory instruments and equipment; as well as help prepare and conduct tests and experiments while documenting results and summarizing findings. Gain internship experience in both research and development in a science laboratory. Students can complete this program in one semester.

Bioscience Laboratory Technician — Certificate for Direct Employment

Take courses to gain entry level work in a biological or medical science laboratory. Certificate includes courses to cover biology concepts while learning techniques and various processes to work in a laboratory setting.

What can I do with this degree?

Career Options: Assist biological and medical scientists in laboratories and private practice to conduct laboratory tests and experiments.

Department/Contact Information:

Dean: 206-2180

Lead Faculty: 206-2180

Program/Major Codes: CRTBLT/BLT

Course Number	Course Title	Credit Hours
Required Core Courses: A grade of C or better is required for graduation.		
BIO 112IN*	Bioscience Laboratory Fundamentals	4
BIO 156IN**	Introductory Biology for Allied Health	4
or BIO 181IN*	General Biology I: (Majors) SUN# BIO 1181	
Subtotal.		.8
Required Support Courses: A grade of C or better is required for graduation.		
WRT 101*	English Composition I SUN# ENG 1101	3
BIO 135IN	Genetics, Biotechnology, and Human Affairs	4
Subtotal.		.7
Total credits as displayed		15

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Building and Construction Technologies

Learn how to construct and maintain buildings with courses in the specialized fields of the building and construction industry including electrical, plumbing, carpentry, and HVAC-R. Classes are hands-on and self-paced.

Building and Construction Technologies — Associate of Applied Science Degree for Direct Employment

Learn advanced construction skills, or prepare to transfer to NAU's Construction Management degree. Choose from one of the focuses listed below.

What can I do with this degree?

Career Options: Apply technical level positions in the building and construction trades.

Academic Options: This program may apply toward a Bachelor of Applied Science (BAS). See an advisor.

Department/Contact Information:

Dean: 206-7134

Lead Faculty: 206-7137

Program/Major/Concentration Codes: **AASBCT/BCT1**

General Education Courses - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	3
Recommend: GTW 101	
Arts and Humanities Requirement	3
Social and Behavioral Sciences Requirement	3
Mathematics and Science Requirement	3
Recommend: GTM 105	
Other Requirements	3
Recommend: CMN 120	
Special Requirements	
Recommend: CMN 120	
Subtotal.	15

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

BCT 105**	Professionalism in Service, Construction Math, Basic Rigging	3
BCT 107**	Basic Safety, Hand and Power Tools, Blueprint Reading	3
BCT 120	Blueprint Reading for Construction	3
BCT 290	Building & Construction Technologies Capstone	4
Subtotal.		13

Required Support Courses

CSA 100*	Computer Literacy	1
STU 100	College Success and Career Planning	1
Subtotal.		2

Core Focus Areas - A grade of C or better is required for graduation.

Complete one of the following focus areas: 33-35
 Department chair or faculty advisor approval is recommended in the selection of the program option.

Carpenter

BCT 101	Principles of Construction	3
or BCT 102	Building Materials	
BCT 123	Concrete/Masonry	3
BCT 145*	Carpentry I	4
BCT 146	Woodworking I	3
BCT 147*	Woodworking II	3
BCT 265	Sustainability for Building Trades	3
BCT 286*	International Residential Code (IRC) I	3
BCT 287*	International Residential Code (IRC) II	3
CAD 151	Computer Aided Drafting for Construction	4
CAD 166	Introduction to Revit	4
Subtotal.		33

Electrician

BCT 135*	National Electrical Code Residential Wiring Applications	4
BCT 172*	Electrical I	4
BCT 173*	Electrical II	4
BCT 174*	Electrical III	4
BCT 184*	National Electrical Code I	3
BCT 271*	Electrical IV	4
BCT 272*	Electrical V	4
BCT 273*	Electrical VI	4
BCT 284*	National Electrical Code II	3
Subtotal.		34

HVAC-R Technician

BCT 106*	Soldering and Brazing for BCT	4
BCT 132*	Residential and Industrial HVAC I	4
BCT 133*	Residential and Industrial HVAC II	4
BCT 134*	Residential and Industrial HVAC III	4
BCT 231*	Residential and Industrial HVAC IV	4
BCT 232*	Residential and Industrial HVAC V	4
BCT 233*	Residential and Industrial HVAC VI	4
BCT 234*	Residential and Industrial HVAC VII	4
BCT 265	Sustainability for Building Trades	3
Subtotal.		35

Plumber

BCT 106*	Soldering and Brazing for BCT	4
BCT 181*	Residential and Industrial Plumbing I	4
BCT 182*	Residential and Industrial Plumbing II	4
BCT 183*	Residential and Industrial Plumbing III	4
BCT 236*	Residential and Industrial Plumbing IV	4
BCT 237*	Residential and Industrial Plumbing V	4
BCT 238*	Residential and Industrial Plumbing VI	4
BCT 239*	Residential and Industrial Plumbing VII	4
BCT 265	Sustainability for Building Trades	3
Subtotal.		35

Management

Complete a Pima BCT Certificate***	.....	16 ^A
ACC 100	Practical Accounting Procedures	3
BCT 202	Construction Business Management	3
BCT 265	Sustainability for Building Trades	3
BUS 100	Introduction to Business	3
BUS 148	Ethics in the Workplace	3

MGT 110	Human Relations in Business and Industry	3
Subtotal.		34
Total credits as displayed		63-65

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** BCT 100, 112 and 115 substitutes for BCT 105. BCT 111, 113 and 114 substitutes for BCT 107

*** The BCT certificate must be from the 2018-19 catalog year or later in one of the following areas: Cabinetmaker, Carpenter, Electrician, HVAC-Technician, or Plumber

Δ This is the credit total excluding the Core and Support Courses already identified in this degree.

Cabinetmaker — Certificate for Direct Employment

Learn basic and fine woodworking skills, wood joinery methods and applying finishes.

What can I do with this certificate?

Career Options: Entry level Cabinetmaker or Woodworker in the Building Construction Trades Industry.

Academic Options: Pursue the Building Construction Technologies Associate of Applied Science Degree.

Gainful Employment Information: www.pima.edu/ge-crtcmk

Department/Contact Information

Dean: 206-7134

Lead Faculty: 206-7137

Program/Major/Concentration Codes: **CRTCMK/CMK1**

Course Number	Course Title	Credit Hours
Required Courses - A grade of C or better is required for graduation.		
BCT 105**	Professionalism in Service, Construction Math, Basic Rigging	3
BCT 107**	Basic Safety, Hand and Power Tools, Blueprint Reading	3
BCT 120	Blueprint Reading for Construction	3
BCT 146	Woodworking I	3
BCT 147*	Woodworking II	3
BCT 148	Cabinetmaking I	3
BCT 149	Cabinetmaking II	3
CAD 151	Computer-Aided Drafting for Construction	4
Subtotal.		25
Required Support Courses		
CSA 100*	Computer Literacy	1
GTM 105*	Applied Technical Mathematics	3
GTW 101*	Writing for Trades and Technical Occupations	3
STU 100	College Success and Career Planning	1
Subtotal.		8
Total credits as displayed		33

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** BCT 100, 112 and 115 substitutes for BCT 105. BCT 111, 113 and 114 substitutes for BCT 107.

Carpenter — Certificate for Direct Employment

Learn to lay out, cut, fabricate, erect, install, and repair wooden structures and fixtures, using hand and power tools. Includes instruction in technical mathematics, framing, construction materials and selection, job estimating, blueprint reading, foundations and roughing-in, finish carpentry techniques, and applicable codes and standards.

What can I do with this certificate?

Career Options: Entry level Carpenter, Woodworker, Window and Door Installer, Trim Installer in the Building Construction Trades Industry.

Academic Options: Pursue the Building Construction Technologies Associate of Applied Science Degree.

Gainful Employment Information: www.pima.edu/ge-crtcpt

Department/Contact Information:

Dean: 206-7134

Lead Faculty: 206-7137

Program/Major/Concentration Codes: **CRTCPT/CPT1**

Course Number	Course Title	Credit Hours
Required Courses - A grade of C or better is required for graduation.		
BCT 101 or BCT 102	Principles of Construction Building Materials	3
BCT 105**	Professionalism in Service, Construction Math, Basic Rigging	3
BCT 107**	Basic Safety, Hand and Power Tools, Blueprint Reading	3
BCT 120	Blueprint Reading for Construction	3
BCT 123	Concrete/Masonry	3
BCT 145*	Carpentry I	4
BCT 146	Woodworking I	3
BCT 147*	Woodworking II	3
Subtotal.		25
Required Support Courses		
CSA 100*	Computer Literacy.....	1
GTM 105*	Applied Technical Mathematics	3
GTW 101*	Writing for Trades and Technical Occupations	3
STU 100	College Success and Career Planning.....	1
Subtotal.		8
Total credits as displayed		33

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** BCT 100, 112 and 115 substitutes for BCT 105. BCT 111, 113 and 114 substitutes for BCT 107.

Electrician — Certificate for Direct Employment

Learn to install, operate, maintain, and repair electric apparatus and systems such as residential, commercial, and industrial electric-power wiring; and DC and AC motors, controls, and electrical distribution panels. Includes the principles of electronics and electrical systems, wiring, power transmission, safety, industrial and household appliances, job estimation, electrical testing and inspection, and applicable codes and standards.

What can I do with this certificate?

Career Options: Apply for entry-level positions in building and construction trades.

Academic Options: Pursue the Building Construction Technologies Associate of Applied Science Degree.

Gainful Employment Information: www.pima.edu/ge-crtele

Department/Contact Information:

Dean: 206-7134

Lead Faculty: 206-7137

Program/Major/Concentration Codes: **CRTELE/ELE1**

Course Number	Course Title	Credit Hours
Required Courses - A grade of C or better is required for graduation.		
BCT 105**	Professionalism in Service, Construction Math, Basic Rigging.....	3
BCT 107**	Basic Safety, Hand and Power Tools, Blueprint Reading.....	3

BCT	120*	Blueprint Reading for Construction	3
BCT	135*	National Electrical Code Residential Wiring Applications	4
BCT	172*	Electrical I	4
BCT	173*	Electrical II	4
BCT	174*	Electrical III	4
Subtotal.			25

Required Support Courses

CSA	100*	Computer Literacy	1
GTM	105*	Applied Technical Mathematics	3
GTW	101*	Writing for Trades and Technical Occupations	3
STU	100	College Success and Career Planning	1
Subtotal.			8
Total credits as displayed			33

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** BCT 100, 112, and 115 substitutes for BCT 105. BCT 111, 113, and 114 substitutes for BCT 107.

Energy Technology — (Basic) Certificate for Direct Employment

Learn fundamental skills to gain entry level employment in energy technology fields. Students can apply for National Center for Construction Education and Research (NCCER) Construction Core Essentials credentials, after completion and passing of coursework and assessments. NCCER credentials are portable and industry-recognized.

What can I do with this certificate?

Career Options: Apply for entry-level positions as Electric Power Line Workers (installers/repairers), Substation/Relay Workers, or Pipe-Fitters/Steam-Fitters, and Helpers or Laborers in energy (i.e. electric, natural gas) technology companies.

Academic Options: Continue your studies with the Advanced Certificate in Energy Technology.

Gainful Employment Information: <http://www.pima.edu/ge-crtenb>

Department/Contact Information:

Dean: 520-206-7134

Program/Major/Concentration Codes: **CRTENB/ENB**

NOTE: Financial Aid Eligibility for this program is pending review by the Department of Education at the time the catalog was published. See the online program display for current information.

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
AIT 125	Electrical Systems I	3
BCT 105	Professionalism in Service, Construction Math, Basic Rigging.....	3
BCT 107	Basic Safety, Hand and Power Tools, Blueprint Reading.....	3
BCT 110	OSHA 10 for the Construction Industry.....	1
ICT 100	Energy Industry Fundamentals.....	3
Subtotal.....		13

Required Support Courses-A grade of C or better is required for graduation.

GTM	105*	Applied Technical Mathematics	3
Subtotal.			3
Total credits as displayed			16

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Energy Technology — (Advanced) Certificate for Direct Employment

Build on the basic energy technology certificate by learning core electrical utilities and natural gas skills to expand employment opportunities in energy technology fields.

What can I do with this certificate?

Career Options: Apply for positions such as Electric Power Line Workers (installers/repairers), Substation/Relay Workers, or Pipe-Fitters/Steam-Fitters with energy (i.e. electric, natural gas) technology companies.

Academic Options: Continue your studies toward an Associate of Applied Science Degree.

Gainful Employment Information: <http://www.pima.edu/ge-crtena>

Department/Contact Information:

Dean: 520-206-7134

Program/Major/Concentration Codes: **CRTENA/ENA**

NOTE: Financial Aid Eligibility for this program is pending review by the Department of Education at the time the catalog was published. See the online program display for current information.

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
AIT 125	Electrical Systems I	3
BCT 105	Professionalism in Service, Construction Math, Basic Rigging.	3
BCT 107	Basic Safety, Hand and Power Tools, Blueprint Reading.	3
BCT 110	OSHA 10 for the Construction Industry.	1
EUT 103	Generation Steam Systems	3
EUT 104	Overhead and Underground Systems, Hardware, and Equipment	4
EUT 106	Measuring Electricity	3
ICT 100	Energy Industry Fundamentals.	3
ICT 102	Introduction to Natural Gas Operations	3
ICT 103*	Natural Gas Pipe Joiner	3
Subtotal.		29
Required Support Courses - A grade of C or better is required for graduation.		
GTM 105*	Applied Technical Mathematics	3
Subtotal.		3
Total credits as displayed		32

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

HVAC-R Technician — Certificate for Direct Employment

Learn to repair, install, service and maintain the operating condition of heating, air conditioning, and refrigeration systems. Includes instruction in diagnostic techniques, the use of testing equipment and the principles of mechanics, electricity, and electronics as they relate to the repair of heating, air conditioning and refrigeration systems.

What can I do with this certificate?

Career Options: HVAC/R Technician, HVAC/R system installations in the Building Construction Trades Industry.

Academic Options: Continue your studies by taking classes in the Associate of Applied Science program.

Gainful Employment Information: www.pima.edu/ge-crthva

Department/Contact Information:

Dean: 206-7134

Lead Faculty: 206-7137

Program/Major/Concentration Codes: **CRTHVA/HVA1**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
BCT 105**	Professionalism in Service, Construction Math, Basic Rigging.	3
BCT 106*	Soldering and Brazing for BCT	4
BCT 107**	Basic Safety, Hand and Power Tools, Blueprint Reading.	3
BCT 120*	Blueprint Reading for Construction	3
BCT 132*	Residential and Industrial HVAC I.	4
BCT 133*	Residential and Industrial HVAC II	4
BCT 134*	Residential and Industrial HVAC III.	4
Subtotal.		.25
Required Support Courses		
CSA 100*	Computer Literacy.	1
GTM 105*	Applied Technical Mathematics	3
GTW 101*	Writing for Trades and Technical Occupations	3
STU 100	College Success and Career Planning.	1
Subtotal.		.8
Total credits as displayed		.33

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** BCT 100, 112, and 115 substitutes for BCT 105. BCT 111, 113, and 114 substitutes for BCT 107.

Plumber — Certificate for Direct Employment

Preparation to practice as licensed plumbers by applying technical knowledge and skills to lay out, assemble, install, and maintain piping fixtures and systems for steam, natural gas, oil, hot water, heating, cooling, drainage, lubricating, sprinkling, and industrial processing systems in home and business environments. Includes instruction in source determination, water distribution, wastewater removal, pressure adjustment, basic physics, technical mathematics, blueprint reading, pipe installation, pumps, welding and soldering, plumbing inspection, and applicable codes and standards.

What can I do with this certificate?

Career Options: Plumber, plumbing repairs, swimming pool installations, new home installations.

Academic Options: Pursue the Building Construction Technologies Associate of Applied Science Degree.

Gainful Employment Information: www.pima.edu/ge-crtplm

Department/Contact Information:

Dean: 206-7134

Lead Faculty: 206-7137

Program/Major/Concentration Codes: **CRTPLM/PLM1**

Course Number	Course Title	Credit Hours
Required Courses - A grade of C or better is required for graduation.		
BCT 105**	Professionalism in Service, Construction Math, Basic Rigging	3
BCT 106*	Soldering and Brazing for BCT	4
BCT 107**	Basic Safety, Hand and Power Tools, Blueprint Reading.	3
BCT 120*	Blueprint Reading for Construction	3
BCT 181*	Residential and Industrial Plumbing I	4
BCT 182*	Residential and Industrial Plumbing II	4
BCT 183*	Residential and Industrial Plumbing III	4
Subtotal.		.25

Required Support Courses

CSA 100*	Computer Literacy.....	1
GTM 105*	Applied Technical Mathematics.....	3
GTW 101*	Writing for Trades and Technical Occupations.....	3
STU 100	College Success and Career Planning.....	1
Subtotal.		8
Total credits as displayed		33

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** BCT 100, 112 and 115 substitutes for BCT 105. BCT 111, 113 and 114 substitutes for BCT 107.

Business

Explore the world of business including accounting, marketing, finance, economics and business administration. Acquire marketable business skills for employment in a variety of fields or prepare to start your own business.

Basic Business — Certificate for Direct Employment

Get an introduction to business skills and principles.

What can I do with this certificate?

Career Options: Entry-level business operations.

Academic Options: Continue your studies with the Advanced Business Certificate program.

Gainful Employment Information: www.pima.edu/ge-crtbusiness-b

Department/Contact Information:

Dean: 520-206-7694

Lead Faculty: 520-206-7691

Program/Major Codes: **CRTBUSINES-B/BUB1**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
ACC 211	Financial Accounting SUN# ACC 2201	3
BUS 100	Introduction to Business	3
BUS 148	Ethics in the Workplace	3
BUS 151*	Mathematics of Business	3
MGT 110	Human Relations in Business and Industry	3
MGT 200	Small Business Management/Entrepreneurship	3
MKT 111	Principles of Marketing	3
Subtotal.		21
Required Support Courses		
CMN 120	Business and Professional Communications	3
CIS/CSA 104*	Computer Fundamentals	3
STU 100	College Success and Career Planning.....	1
WRT 101*	English Composition I SUN# ENG 1101	3
Subtotal.		10
Total credits as displayed		31

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Advanced Business — Certificate for Direct Employment

Learn fundamental principles of business and skills in accounting, management and marketing.

What can I do with this certificate?

Career Options: Entry-level business and marketing functions.

Academic Options: Continue your studies through the AAS in Business.

Gainful Employment Information: www.pima.edu/ge-crtbusiness-a

Department/Contact Information:

Dean: 520-206-7694

Lead Faculty: 520-206-7691

Program/Major Codes: **CRTBUSINES-A/BUA1**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
ACC 211*	Financial Accounting SUN# ACC 2201	3
ACC 212	Managerial Accounting SUN# ACC 2202	3
BUS 100	Introduction to Business	3
BUS 125	eCommerce	3
BUS 148	Ethics in the Workplace	3
BUS 151*	Mathematics of Business	3
BUS 220	Legal Environment of Business	3
FIN 200	Business Finance	3
MGT 110	Human Relations in Business and Industry	3
MGT 200	Small Business Management/Entrepreneurship	3
MKT 111	Principles of Marketing	3
Subtotal.		33
Required Support Courses		
CIS/CSA 104*	Computer Fundamentals	3
CMN 120	Business and Professional Communications	3
ECN 201*	Microeconomic Principles SUN# ECN 2202	3
STU 100	Student Success and Career Planning	1
WRT 101*	English Composition I SUN# ENG 1101	3
Subtotal.		13
Total credits as displayed		46

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Business — Associate of Applied Science Degree for Direct Employment

Learn basic business principles. Students planning to transfer to a four-year university should pursue the Associate of Business Administration.

What can I do with this degree?

Career Options: Carry out basic business functions for an employer or to open a small business.

Academic Options: This program may apply toward a Bachelor of Applied Science (BAS). See an advisor.

Department/Contact Information:

Dean: 520-206-7694

Lead Faculty: 520-206-7691

Program/Major Codes: **AASBUS/BUS1**

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	3
Recommend: WRT 101 or WRT 154	
Arts and Humanities Requirement	3
Recommend: ART 105 or HUM 260	
Social and Behavioral Science Requirement	†
ECN 201 fulfills this requirement.	
Mathematics and Science Requirement	†
BUS 151 fulfills this requirement.	
Other Requirement	†
CMN 120 fulfills this requirement	

Special Requirements
CMN 120 fulfills this requirement

Subtotal.6¥

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

ACC 211	Financial Accounting SUN# ACC 2201	3
ACC 212	Managerial Accounting SUN# ACC 2202	3
BUS 100	Introduction to Business	3
BUS 125	eCommerce	3
BUS 148	Ethics in the Workplace	3
BUS 151*	Mathematics of Business	3
BUS 220	Legal Environment of Business	3
FIN 200	Business Finance	3
MGT 110	Human Relations in Business and Industry	3
MGT 200	Small Business Management/Entrepreneurship	3
MGT 270	Computer Applications for Managers	3
MGT 276	Human Resources	3
MGT 280*	Business Organization and Management	3
MKT 111	Principles of Marketing	3
Subtotal.	.....	42

Required Support Courses

CIS/CSA 104*	Computer Fundamentals	3
CMN 120	Business and Professional Communications	3
ECN 201*	Microeconomic Principles SUN# ECN 2202	3
STU 100	College Success and Career Planning.....	1
Electives: Select 3 credits hours from the following list:		3
ECN 202, LGM 101, MGT 230, MKT200		
Subtotal.	.....	13
Total credits as displayed	.....	61

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Business Administration — Associate of Business Administration (ABUS) Degree for Transfer

Jump start your career by completing this degree and then transferring to a university business administration degree or related program.

What can I do with this degree?

Academic Options: This program has been designed to match as closely as possible the first two years of a business degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Contact Information: Contact any campus Student Services office (www.pima.edu/mhtml/email/advising).

Program/Major Codes: **AOBBUSIADMIN/BUD1**

Arizona General Education Curriculum Requirement (AGEC-B) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts.....	6
Recommend: ART 105 and either HUM 260 or LIT 280	
Biological and Physical Sciences	8
Recommend two courses from: BIO 100IN, BIO 109IN, GEO 101IN or GLG 101IN	

Mathematics.....	†
MAT 212 fulfills this requirement.	
Social and Behavioral Sciences	3
ECN 201 fulfills 3 credits of this requirement. Complete a non-ECN course from this category.	
Recommend: PSY 101	
Other Requirements	†
CIS 120 and ECN 202 fulfill this requirement.	
Special Requirements	
The I, C, and G requirements should be fulfilled by selecting the appropriate recommended courses in the above categories.	
Recommend: ART 105 and either HUM 260 or LIT 280	
Subtotal.	23¥

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

ACC 211*	Financial Accounting SUN# ACC 2201	3
ACC 212*	Managerial Accounting SUN# ACC 2202	3
BUS 148	Ethics in the Workplace	3
BUS 205*	Statistical Methods in Economics and Business SUN# BUS 2201	3
BUS 220	Legal Environment of Business	3
CIS 120	Computer Applications for Business SUN# CIS 1120	4
ECN 201*	Microeconomic Principles SUN# ECN 2202	3
ECN 202*	Macroeconomic Principles SUN# ECN 2201	3
MAT 151*	College Algebra SUN# MAT 1151	4
(MAT 151 may be substituted by another transferable course if the student has tested above MAT 151 or completed a College MAT course numbered higher than 151 with a grade C or better.)		

Business Math Requirement: 6-7

Please note: The UA accepts the combination of MAT 212 and BUS 277. ASU accepts MAT 212 and an additional Math course at ASU**. The NAU BSBA program in Flagstaff only requires MAT 172, while their BBA program through the Extended Campus requires MAT 212 and either MAT 151 or 172.

Regardless of which university a student plans to transfer, any student who wants to earn a Pima ABUS degree still needs one of the two combinations listed below.

MAT 212***
and BUS 277

Topics in Calculus SUN# MAT 2212
Analytical Methods in Business

or

MAT 172
and MAT 212

Finite Mathematics
Topics in Calculus SUN# MAT 2212

Subtotal. **35-36**

Required Support Courses - A grade of C or better is required for graduation.

STU 107	University Transfer Preparation and College Success	1
STU 210	Transfer Strategies	2
WRT 254	Advanced Professional Communications	3
Subtotal.		6

Total credits as displayed 64-65

† Core or support course(s) fulfill this requirement.

¥ AGECE requires 35 credits. This subtotal shows the AGECE credits not fulfilled by core, support, or second language courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** ASU may also accept the combination of MAT 220 and 231, which can substitute for the above listed courses.

*** UA will accept MAT 220 instead of MAT 212, which can substitute for the above listed courses.

Clinical Research Coordinator

Clinical Research Coordinator — Associate of Applied Science for Direct Employment

Learn to manage clinical research trials involving human subjects in classes taught by experienced clinical research professionals.

Before enrolling in this program, you must meet certain requirements.

- Attend an Allied Health Information session.
- Submit application packet to Program Director
- Complete health declaration and immunization information.

To participate in the internship course, students must:

- Maintain health insurance and CPR card at the Health Care Provider Level prior to registering for CRC 291 (Internship course).

What can I do with this degree?

Career Options: Seek an entry-level position or career advancement in hospitals, medical centers, universities, or private research group.

Academic Options: This program may apply toward a Bachelor of Applied Science (BAS). See an advisor.

Gainful Employment Information: www.pima.edu/ge-crtctc

Department/Contact Information:

Dean: 520-206-5105

Lead Faculty: 520-206-2153

Conditional Program/Major Codes: **AASCTC/9CRC**

Conditional Enrollment Program: You will be eligible to enroll in CRC courses once you have completed the requirements listed above and the Department has authorized your enrollment. See the program advisor for more information.

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	†
WRT 101 or 154 fulfill this requirement.	
Arts and Humanities Requirement	3
Recommend: ANT 112 or MUS 160	
Social and Behavioral Science Requirement	3
Recommend: PSY/SOC 215	
Mathematics and Science Requirement	†
MAT 142, 151 or higher fulfills this requirement.	
Other Requirements	†
BIO 160IN, 201IH/IN, or 202IN fulfills this requirement	
Special Requirement	
Recommend: PSY/SOC 215 fulfills this requirement	
Subtotal.	3¥

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
CRC 101	Foundations of Clinical Research	3
CRC 102*	Introduction to Research Data	3
CRC 110*	Clinical Research Common Terminology	3
CRC 201*	Clinical Research Regulatory Compliance	3
CRC 202	Investigational Product Development and Regulation	3
CRC 230*	Introduction to Clinical Research Study Protocol	3
CRC 240*	Pharmacology for Clinical Trials	4
CRC 250IN*	Clinical Research Site Coordination and Management	4
CRC 260IN*	Lab Skills and Professional Practice	3
CRC 270*	Research Management for Sponsors and CROs	3
CRC 291*	Clinical Research Coordinator Internship	3

Subtotal.35

Required Support Courses - A grade of C or better is required for graduation.

BIO 160IN	Introduction to Human Anatomy and Physiology	4
or BIO 201H/IN	Human Anatomy and Physiology I	
or BIO 202IN	Human Anatomy and Physiology II	
BIO 250	Biomedical Ethics	3
MAT 106*	Elementary Data Analysis with Spreadsheets	3
MAT 142*	Topics in College Mathematics SUN#1142	3
or MAT 151	College Algebra	
or higher MAT		
STU 100	College Success and Career Planning	1
WRT 101*	English Composition I SUN# ENG 1101	3
or WRT 154	Career Communications	
WRT 102*	English Composition II SUN# ENG 1102	3
or CMN 120	Business and Professional Communications	
Subtotal.		20
Total credits as displayed		61

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** Other Social & Behavioral Science courses may be substituted for PSY 215. See Program Director and/or Allied Health Senior Academic Advisor for course substitution options. If substituted, the C or G requirement may need to be fulfilled by another course.

Computer-Aided Design

Prepare for careers in a variety of manufacturing and construction settings. Master basic to advanced computer-aided design skills for high-demand careers, with two different concentration options. Learn either mechanical and electro-mechanical modeling fundamentals using computer-aided design (CAD) and the design process leading to advanced manufacturing; or learn building design and modeling fundamentals using computer-aided design (CAD) and discover documentation process involved in residential and commercial building projects or transportation and land development projects.

Computer-Aided Design — Associate of Applied Science Degree for Direct Employment

Choose from two Computer-Aided Design concentrations.

What can I do with this degree?

Career Options: Work as a drafter modeler and entry-level designer in industries such as manufacturing, electronics, building construction and site development.

Academic Options: This program may apply toward a Bachelor of Applied Science (BAS). See an advisor.

Department/Contact Information:

Dean: 520-206-7134

Lead faculty: 520-206-7230

Program/Major/Concentration Codes: **AASELECMECHN/CAD1/****** (see concentration codes below)

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	3
Recommend: WRT 101* ^Δ	
Arts and Humanities Requirement	3
Recommend: ART 110	
Social and Behavioral Science Requirement	3
Recommend: SOC 110 or ECN 201 or POS 201	
Mathematics or Science Requirement	†
GTM 105* or MAT 189* ^Δ fulfills this requirement.	
Other Requirement	4
Complete a Science course - Recommend: PHY 121IN* ^Δ or BIO 108IN or MAC 275*	
Special Requirement	
Recommend: SOC 110 or POS 201 or BIO 108IN meet the C or G requirement.	
<i>NOTE: If a student completes ART 110 (or another course which does not have a C or G designation) and completes ECN 201 (or another course which does not have a C or G designation) for the Social and Behavioral Science requirement, then BIO 108IN must be completed in the Other Requirement in order to meet the C or G requirement.</i>	
Subtotal.	13 ¥

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
CAD 101	Computer-Aided Drafting	4
CAD 280*	Computer-Aided Design Portfolio	1
Subtotal.		5

Core Concentrations - A grade of C or better is required for graduation.

Complete one of the following concentrations:

Department faculty approval is recommended when selecting concentration and technical elective courses.

Mechanical/Electro-Mechanical Concentration (Concentration Code: DFTA)

CAD 117	Print Reading with CAD for Manufacturing	4
CAD 142	Introduction to Parametric Modeling: SolidWorks	4
CAD 153*	Electro-Mechanical Drafting and Design	4

CAD 172*	Geometric Dimensioning and Tolerancing	3
CAD 203*	Advanced Electro-Mechanical Design	4
CAD 242*	Advanced Parametric Modeling: SolidWorks.	4
CAD 270*	Integrated Mechanical/Electro-Mechanical Design	4
MAC 100	Introduction to Machine Tool	3
Technical Electives		8
Complete 8 credit hours from the following list: AIT 105, CAD 199, 199WK, 222, 232, 242, 252, 282, ENG, MAC, TEC 100, 101, WLD 110, or MAT 188 or higher		
Recommend one of the following pairs: CAD 222/232, or CAD 252/AIT 105, or MAC 150/155		
Subtotal.		38

Construction (Concentration Code: DFTC)

CAD 151	Computer-Aided Design for Construction	4
CAD 155*	Residential Computer-Aided Design	4
CAD 157*	Introduction to Site Development and Design	4

Complete one of the following focus areas: 20

Building Design

CAD 166	Introduction to Revit
CAD 206*	Commercial Design: Revit
CAD 256*	Advanced Commercial Design: Revit
CAD 265*	Design for Sustainability
CAD 266*	Mechanical, Electrical, Plumbing Design: Revit MEP

Land Development

CAD 127	Introduction to MicroStation
CAD 166	Introduction to Revit
CAD 206* or CAD 265*	Commercial Design: Revit Design for Sustainability
CAD 207*	Land Development Design: Civil 3D
CAD 257*	Advanced Land Development Design: Civil 3D

Technical Electives 6

Complete 6 credit hours from the following list: BCT 101, 102, 204, 265, CAD 196, 199, 199WK, 296, LTP 119, 129, 140

Recommend 6 credits from BCT 101, 102, LTP 129 or 140

Subtotal. **38**

Required Support Courses - A grade of C or better is required for graduation.

GTM 105* or MAT 189*	Applied Technical Mathematics	3-4
STU 100	College Success and Career Planning.....	1
Subtotal.		4-5
Total credits as displayed		60-61

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

△ Students planning on transferring to a University should consult with Department faculty, advisor, or university's websites for assistance in selecting the appropriate courses for transfer. The department recommends MAT 189, PHY 101IN, and WRT 101.

CAD Technician — Certificate for Direct Employment

Learn basic drafting and design fundamentals using AutoCAD and SketchUp computer-aided drafting (CAD) tools

What can I do with this certificate?

Career Options: Work as an entry-level drafter/designer in residential architecture, small commercial architecture, small civil design, and interior design.

Academic Options: Continue your studies by completing the Architectural Technician Certificate and/or the Computer-Aided Drafting Associate of Applied Science Degree.

Gainful Employment Information: www.pima.edu/ge-crtcdt

Department/Contact Information:

Dean: 520-206-7134

Lead faculty: 520-206-7230

Program/Major Codes: **CRTCDT/CDT1**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
CAD 101	Computer-Aided Drafting	4
CAD 151	Computer-Aided Design for Construction	4
CAD 155*	Residential Computer-Aided Design	4
CAD 157*	Introduction to Site Development and Design	4
Subtotal.	.....	16
Required Support Courses - A grade of C or better is required for graduation.		
STU 100	College Success and Career Planning.....	1
Subtotal.	.....	1
Total credits as displayed	.....	17

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Civil Engineering CAD Technician — Certificate for Direct Employment

Learn site design and modeling fundamentals using computer-aided design (CAD) tools.

What can I do with this certificate?

Career Options: Work as an entry-level technician in land development and transportation civil engineering firms.

Academic Options: Continue your studies by completing the Computer-Aided Drafting Associate of Applied Science Degree.

Gainful Employment Information: www.pima.edu/ge-crtciv

Department/Contact Information:

Dean: 520-206-7134

Lead faculty: 520-206-7230

Program/Major Codes: **CRTCIV/CIV1**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
CAD 101	Computer-Aided Drafting	4
CAD 157*	Introduction to Site Development and Design.....	4
CAD 207	Land Development Design: Civil 3D.....	4
Technical Electives:	Complete 4 credit hours from the following list: CAD 127, 257, 196**, or 199/199WK.	
Subtotal.	.....	16
Required Support Courses - A grade of C or better is required for graduation.		
STU 100	College Success and Career Planning.....	1
Subtotal.	.....	1
Total credits as displayed	.....	17

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** Primary work responsibilities must include drawing, mapping, or modeling for relevant fields.

Revit Technician — Certificate for Direct Employment

Learn modeling and design fundamentals using Revit computer-aided design (CAD) tools

What can I do with this certificate?

Career Options: Work as an entry-level technician in architectural, mechanical/HVAC, electrical-engineering, plumbing, and construction firms.

Academic Options: Continue your studies by completing the Architectural Technician Certificate and/or the Computer-Aided Design Associate of Applied Science Degree.

Gainful Employment Information: www.pima.edu/ge-crtrev

Department/Contact Information:

Dean: 520-206-7134

Lead faculty: 520-206-7230

Program/Major Codes: **CRTREV/REV1**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
CAD 166	Introduction to Revit	4
CAD 206*	Commercial Design: Revit	4
Technical Electives		8
Complete 8 credits from the following list:		
CAD 196**, 199**, 199WK, **, 256*, 265*, 266		
Subtotal.		16
Required Support Courses - A grade of C or better is required for graduation.		
STU 100	College Success and Career Planning	1
Subtotal.		1
Total credits as displayed		17

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** Primary work responsibilities must include Revit modeling.

SolidWorks Designer — Certificate for Direct Employment

Learn basic design and modeling fundamentals using SolidWorks computer-aided design (CAD) tools

What can I do with this certificate?

Career Options: Work as an entry-level drafter/designer in mechanical engineering and manufacturing industries.

Academic Options: Continue your studies by completing the Mechanical Designer/CNC Programmer Certificate or the Mechanical/Electro-Mechanical Designer Certificate and/or the Computer-Aided Design Associate of Applied Science Degree.

Gainful Employment Information: www.pima.edu/ge-crtswd

Department/Contact Information:

Dean: 520-206-7134

Lead faculty: 520-206-7230

Program/Major Codes: **CRTSWD/SWD1**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
CAD 117	Print Reading with CAD for Manufacturing	4
CAD 142	Introduction to Parametric Modeling: SolidWorks	4
CAD 172*	Geometric Dimensioning and Tolerancing	3

CAD 242*	Advanced Parametric Modeling: SolidWorks	4
Subtotal.		15

Required Support Courses - A grade of C or better is required for graduation.

STU 100	College Success and Career Planning	1
Subtotal.		1
Total credits as displayed		16

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Architectural Technician — Certificate for Direct Employment

Gain advanced computer-aided design (CAD) Learn advanced design, drafting, and modeling fundamentals using AutoCAD, SketchUp, and Revit computer-aided design (CAD) tools.

What can I do with this certificate?

Career Options: Work as an entry-level technician in residential architecture, commercial architecture, and construction firms.

Academic Options: Continue your studies by completing the Computer-Aided Design Associate of Applied Science Degree.

Gainful Employment Information: www.pima.edu/ge-crtach

Department/Contact Information:

Dean: 520-206-7134

Lead faculty: 520-206-7230

Program/Major Codes: **CRTACH/ACH1**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
CAD 101	Computer-Aided Drafting	4
CAD 151	Computer-Aided Design for Construction	4
CAD 155*	Residential Computer-Aided Design	4
CAD 157*	Introduction to Site Development and Design	4
CAD 166	Introduction to Revit	4
CAD 206*	Commercial Design: Revit	4
CAD 256*	Advanced Commercial Design: Revit	4
or CAD 265*	Design for Sustainability	
or CAD 266*	Mechanical, Electrical, Plumbing, Drafting & Design: Revit MEP	
Technical Electives	.....	3
Complete 3 credit hours from the following list: BCT 101, 102, 204, 265, 286, 287 CAD 196, 199, 199WK, 296, LTP 119, 129, 140, MAT 188 Recommend BCT 101, 102, or MAT 188		
Subtotal.		31

Required Support Courses - A grade of C or better is required for graduation.

STU 101	College Success and Career Planning	1
Subtotal.		1
Total credits as displayed		32

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Mechanical Designer/CNC Programmer — Certificate for Direct Employment

Learn mechanical design and modeling fundamentals using computer-aided design (CAD) and programmer skills in computer numerical control (CNC).

What can I do with this certificate?

Career Options: Work as an entry-level modeler/designer in manufacturing and/or employment in CNC programming.

Academic Options: Continue your studies by completing the Computer-Aided Drafting Associate of Applied Science Degree.

Gainful Employment Information: www.pima.edu/ge-crtmdc

Department/Contact Information:

Dean: 520-206-7134

Lead faculty: 520-206-7230

Program/Major Codes: **CRTMDC/MDC1**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
CAD 117	Print Reading with CAD for Manufacturing	4
CAD 142	Introduction to Parametric Modeling: SolidWorks	4
CAD 172*	Geometric Dimensioning and Tolerancing	3
CAD 242*	Advanced Parametric Modeling: SolidWorks	4
CAD 270*	Integrated Mechanical/Electro-Mechanical Design	4
CAD 280	Computer-Aided Design Portfolio	1
MAC 100	Introduction to Machine Tool	3
MAC 150*	Computer Numerical Control (CNC) Mill Programming I	4
MAC 155*	Computer Numerical Control (CNC) Mill Programming II	4
MAC 257*	Computer Aided Machining (CAM) I	4
Subtotal.		35
Required Support Courses - A grade of C or better is required for graduation.		
GTM 105* or MAT 188* ^Δ	Applied Technical Mathematics	3-4
STU 100	College Success and Career Planning	1
GTW 101 or WRT 101	WRiting for Trades and Technical Occupations	3
	English Composition I SUN# ENG1101	
Subtotal.		7-8
Total credits as displayed		42-43

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

^Δ Department recommends MAT 188.

Mechanical/Electro-Mechanical Designer — Certificate for Direct Employment

Learn mechanical and electro-mechanical design and modeling fundamentals using AutoCAD and SolidWorks computer-aided design (CAD).

What can I do with this certificate?

Career Options: Work as an entry-level modeler/designer in mechanical and electro-mechanical engineering and manufacturing.

Academic Options: Continue your studies by completing the Computer-Aided Design Associate of Applied Science Degree.

Gainful Employment Information: www.pima.edu/ge-crtmem

Department/Contact Information:

Dean: 520-206-7134

Lead faculty: 520-206-7230

Program/Major Codes: **CRTMEM/MEM1**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
CAD 101	Computer-Aided Drafting	4
CAD 117	Print Reading with CAD for Manufacturing	4

CAD 142	Introduction to Parametric Modeling: SolidWorks.....	4
CAD 153*	Electro-Mechanical Design	4
CAD 172*	Geometric Dimensioning and Tolerancing	3
CAD 203*	Advanced Electro-Mechanical Design	4
CAD 242*	Advanced Parametric Modeling: SolidWorks	4
Subtotal.		27

Required Support Courses - A grade of C or better is required for graduation.

GTM 105*	Applied Technical Mathematics	3-4
or MAT 188* ^Δ	Precalculus I	
STU 100	College Success and Career Planning.....	1
GTW 101	WRiting for Trades and Technical Occupations.....	3
or WRT 101	English Composition I SUN# ENG1101	
Subtotal.		7-8
Total credits as displayed		34-35

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

^Δ Department recommends MAT 188.

Computer Information Systems

Prepare for a career as a programmer, network administrator, systems administrator, or upgrade existing skills and improve job performance.

Computer Programmer/Analyst — Associate of Applied Science Degree for Direct Employment

Learn to design and develop software programs and applications. Courses focus on problem solving and structured programming concepts.

What can I do with this degree?

Career Options: Become a programmer or programmer/analyst.

Academic Options: While this program was not designed to transfer to a 4-year university, it may apply toward Bachelor of Applied Science (BAS) or other programs. See Pima's Transfer Partnerships (www.pima.edu/current-students/transferring-from-pima/transfer-partnerships.html) page to determine which universities offer BAS programs, and research how the universities may accept this program in transfer.

Department/Contact Information:

Dean: 206-7694 (East Campus)

Program/Major Concentration Codes: **AASCPM/CPM/****** (see concentration codes below)

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	†
For the Applied Programming Concentration, recommend: WRT 154	
For the Cyber Operations Programming Concentration, WRT 101 fulfills this requirement	
Math or Science	†
For the Applied Programming Concentration, recommend: MAT 106	
For the Cyber Operations Programming Concentration, MAT 151 or 188 fulfills this requirement.	
Social Science Requirement	†
For the Applied Programming Concentration, recommend: ECN 150	
For the Cyber Operations Programming Concentration, ECN 150 fulfills this requirement.	
Fine Arts and Humanities	3
Other Requirement	†
For the Applied Programming Concentration, recommend: CMN 120	
For the Cyber Operations Programming Concentration, MAT 172 fulfills this requirement	
Special Requirements	
For the Applied Programming Concentration, recommend: CMN 120 or ECN 150	
For the Cyber Operations Programming Concentration, ECN 150 fulfills this requirement	
Subtotal.	3¥

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
CIS 129*	Programming and Problem Solving I	4
CIS 131*	Programming and Problem Solving II	4
CIS 162	Database Design and Development	3
CIS 250*	Introduction to Assembly Language	3
CIS 280*	Systems Analysis and Design: Concepts and Tools	3
CIS 281*	Systems Analysis and Design: Applications Capstone	3
Subtotal.		20

Required Concentration Courses - A grade of C or better is required for graduation.

Complete courses from one of the following concentrations. Department faculty or advisor approval is recommended.

Applied Programming Concentration (Concentration Code: CPMA)**Core Concentration**

CIS 141*	Introduction to VB.NET	3
CIS 185*	Introduction to Python	3
CIS 269*	Data Structures	4
CIS 276	Mobile App Programming: Android I	3
CIS 278*	C++ and Object Oriented Programming	4
CIS 279*	Java Programming	4
Subtotal		21

Support Courses

BUS 125	eCommerce	3
STU 100	College Success and Career Planning	1
AGEC Gen Ed Soc/Behavioral Science (recommend ECN 150)	.....	3
CTE Gen Ed Communication (recommend WRT 154)	.....	3
CTE Gen Ed Mathematics, complete a MAT 100 or higher (recommend MAT 106)	.....	3
CTE Gen Ed Other (recommend CMN 120)	.....	3
Subtotal		16

Concentration Subtotal **37**

Cyber Operations Programming Concentration (Concentration Code: CPMC)**Core Concentration**

CIS 182	Introduction to ANSI SQL	3
CIS 185	Introduction to Python	3-4
or 269	Data Structures	
CIS 265	The C Programming Language	3
CIS 278	C++ and Object-Oriented Programming	4
or 279	Java Programming	
or 283	Advanced Python	
CIS 288	Fundamentals of Cybersecurity	4
Subtotal		17-18

Support Courses

ECN 150	An Economic Perspective	3
MAT 151**	College Algebra	4
or MAT 188**	Precalculus I	
MAT 172*#	Finite Mathematics	3
WRT 101	English Composition I	3
WRT 102	English Composition II	3
AGEC Science	.....	4
Complete any AGEC Science course		
Subtotal		20
Concentration Subtotal		37-38

Total credits as displayed **60-61**

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** Students who place into MAT 172 on the Math Placement test are not required to complete MAT 151 or 188, and additional credits may be needed to get to the minimum of credits of 60 required for a degree.

Students who plan to transfer to a university should complete MAT 227, Discrete Mathematics in Computer Science, Mat 189 or higher can substitute for MAT 172.

Computer Systems Administration/Networking — Associate of Applied Science Degree for Direct Employment

Learn to Install and administer computer systems, networking technologies, and network analysis. Courses also provide preparatory knowledge for industry accepted credentials or for transfer to a bachelors in cyber defense and forensics.

What can I do with this degree?

Career Options: Computer and systems administration in Microsoft and Linux, Cisco Networking, or as a Cybersecurity analyst.

Academic Options: The cybersecurity focus of this program was designed to transfer to the University of Arizona South's Cyber Defense and Forensics Track. This program may apply toward a Bachelor of Applied Science (BAS). See an advisor.

Department/Contact Information:

Dean: 206-7694 (East Campus)

Program/Major/Concentration Codes: **AASCOMPSYSAD/CSN1**

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	†
Recommend: WRT 154	
Arts and Humanities Requirement	3-4
Recommend: ART 100 or DAR 250	
Social and Behavioral Science Requirement	3
Recommend: ECN 150, JRN 102, GEO 104, POS 201 or POS 202	
Mathematics and Science Requirement	3
Recommend: MAT 106	
Other Requirement	3
Recommend: CMN 120	
Special Requirements	
Recommend: CMN 120	
Subtotal.	15-16*

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

CIS 103	Microsoft Windows Operating System Professional Administration	3
CIS 136	Computer Hardware Components	3
CIS 137*	Introduction to the UNIX Operating System	3
CIS 170*	CISCO I: Networking Fundamentals	4
CIS 171*	CISCO II: Networking Router Technologies	4
CIS 216*	Introduction to Wireshark and Network Analysis	4
CIS 219*	Introduction to Virtual Computing	3
CIS 221*	Microsoft Windows Servers	3
CIS 222*	Implementing Windows Server Network Infrastructure	3
CIS 225*	Linux (UNIX) System and Network Administration	3
CIS 228*	Fundamentals of Network Security	4

Complete one of the following focus areas. 8-9

Meeting with a program advisor is recommended in the selection of the focus areas.

CISCO Focus

CIS 172*	CISCO III: Advanced Routing and Switching	4
CIS 173*	CISCO IV: Project Based Learning	4

Cyber Security Focus

CIS 132*	Introduction to Computer Forensics	3
CIS 223*	Implementing Windows Directory Services	3
CIS 235*	Advanced Topics in Linux/Unix Security	3

Network Administrator Focus

CIS 223*	Implementing Windows Directory Services	3
CIS 226*	Advanced Linux Networking	3

CIS 229*	Protecting Your PC and Network: Countermeasures to Network Intrusion	3
Subtotal.		45-46

Course Number	Course Title	Credit Hours
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Required Support Courses

STU 100	College Success and Career Planning.....	1
Subtotal.		1
Total credits as displayed	.....	.61-63

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Dental Studies

Complete programs to work in direct patient care as a dental hygienist or assistant, or prepare for a career in a dental laboratory.

- Dental Assisting Education
- Dental Hygiene
- Dental Laboratory Technologies

Dental Assisting Education

Dental Assisting Education — Certificate for Direct Employment

Learn to assist dentists and other dental professionals in patient care. Complete at least 336 hours of clinical work in dental clinics or offices. This program is accredited by the American Dental Association Commission on Dental Accreditation.

Before enrolling in this program, you must meet certain requirements:

This certificate requires a special program application. Students may request a program application available at:

www.pima.edu/programs-courses/credit-programs-degrees/health-professions/dental/dental-assisting/admission.html

Because of the clinical component of this program, students must:

- Be able to perform a number of physical activities in the clinical portion of the program. At a minimum, students will need to stand for several hours at a time and perform bending activities. The clinical experience also places students under considerable mental and emotional stress as they undertake responsibilities and duties impacting patients' lives. Students must be able to demonstrate rational and appropriate behavior under stressful conditions. Individuals should give careful consideration to the mental and physical demands of the program prior to submitting an application.
- Present proof of immunization and/or immunity for MMR/Varicella/Hepatitis-B/TDaP/Influenza.
- Proof of negative TB skin test or negative chest x-ray for TB within the last two years.
- Maintain health insurance and a current CPR card at the Health Care Provider Level throughout the program.
- Completed health declaration form from a licensed care provider.
- Present proof of current Arizona DPS Fingerprint Clearance Card; additional background screening and drug screening may be required.

What can I do with this certificate?

Career Options: Take the exams to gain National Dental Assisting Certification, Arizona Oral Radiology Certification and Coronal Polishing Certification. Work as a dental assistant in hospitals, clinics and dental offices.

Academic Options: Continue your studies by taking courses toward the Dental Hygienist AAS degree.

Gainful Employment Information: www.pima.edu/ge-crtdentassis

Department/Contact Information:

Dean: 520-206-7694

Program Director: 520-206-6916

Dental Assisting Interest Program/Major Codes: **PREPDAEP/9DAE** - Same requirements as AA in Liberal Arts, General Concentration (AOAALA/ALA1/ALAG). See page 157 for program requirements.

Dental Assisting Program/Major Codes: **CRTDENTASSIS/DAE**

Limited Admissions Program: Students must meet the preparatory coursework and any other prerequisites and apply to the program. Depending on available spots, students may be placed on a waiting list before starting the program. See the website or an advisor for details.

Preparatory Coursework

Students must have completed the following requirements before starting the program:

REA 112HP* or REA 112* or a Next Generation Accuplacer Reading score of 256 or higher	0-4
High school or college biology course	0-4
High school diploma or G.E.D.	
Subtotal.	0-8

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
DAE 159*	Introduction to Health Care for Dental Assisting	2
DAE 160*	Orientation to Dental Care	1
DAE 161*	Biomedical Dental Science	3
DAE 162/162LB*	Dental Assisting I/Lab	3
DAE 163/163LC*	Oral Radiography/Clinical Lab	3
DAE 164/164LB*Δ	Dental Materials/Lab	3
DAE 165/165LC*Δ	Dental Assisting Procedures I/Clinical Lab I	2
DAE 166*	Dental Assisting II	3
DAE 167*	Dental Assisting III	3
DAE 169/169LC*	Dental Assisting Procedures II/Clinical Lab II	6.5
Total credits as displayed (not including preparatory coursework)		29.5
Total credits as displayed (including preparatory coursework)		29.5-37.5

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Δ DHE 116/116LC will substitute for DAE 163/163LC if completed within the last three years. DHE 132/132LB will substitute for DAE 164/164LB if completed within the last three years. See academic advisor or faculty for information regarding course substitution.

Dental Hygiene

Dental Hygiene — Associate of Applied Science Degree for Direct Employment

Learn dental hygiene and dental health education. This program is accredited by the American Dental Association Commission on Dental Accreditation.

Before enrolling in this program, you must meet certain requirements:

This degree requires a special program application. Once all prerequisites are complete students can access the program application on the MyPima Academics tab in the Degrees and Programs section. Additional application information is available at <http://www.pima.edu/programs-courses/credit-programs-degrees/health-professions/dental/dental-hygiene/index.html>.

Once students are accepted into the Dental Hygiene program, admitted students will be expected to meet the criteria below prior to their enrollment in the Dental Hygiene courses. To participate in dental hygiene coursework, accepted students must:

- Obtain an Arizona DPS Fingerprint Clearance Card.
- Pass a urine toxicology screening exam.
- Be able to perform a number of physical activities in the clinical portion of the program. At a minimum, students will be required to lift patients, stand for several hours at a time and perform bending activities. The dental experience also places students under considerable mental and emotional stress as they undertake responsibilities and duties impacting patients' lives. Students must be able to demonstrate rational and appropriate behavior under stressful conditions. Individuals should give careful consideration to the mental and physical demands of the program prior to submitting an application and be advised that they may be exposed to bloodborne pathogens and infectious diseases during delivery of care.
- Present proof of immunization or immunity for MMR/Varicella/Hep-B, Hep-A, TB and TDap.
- Show proof of negative TB skin test or negative chest x-ray for TB.
- Maintain health insurance.
- Health related professions students are advised that state/national license exams or certification applications may include a personal history section in which prospective applicants must report and may have to provide a detailed explanation of legal situations. Examples of situations which may prohibit licensure or certification include, but are not limited to: felony or misdemeanor convictions, substance abuse, conviction of an offense involving immoral behavior, or being guilty of acts which deceive, defraud or cause harm to the public in any way.
- Fingerprinting may be part of many state and federal licensing and certification processes. If there is any question about eligibility for licensure or certification, it is the responsibility of the applicant to contact the state and/or federal agency responsible for licensure or certification.

Students who opt to leave the dental hygiene program may re-enter one time without need to repeat mandatory course work, if they re-enter within one (1) year, based on space availability.

What can I do with this degree?

Career Options: Take national and regional exams in preparation for state licensure, then work in general or specialty dental offices, hospitals, schools, public health or government agencies.

Academic Options: Continue your studies at Northern Arizona University for a Bachelor of Science in Dental Hygiene or other online baccalaureate opportunities.

Department/Contact Information:

Dean: 520-206-7694

Program Director: 520-206-6622

Dental Hygiene Interest Program/Major Codes: **AOA9ALA/9DHE** - Same requirements as AA in Liberal Arts, General Concentration (AOAALA/ALA1/ALAG). See page 157 for program requirements.

Dental Hygiene Program/Major Codes: **AASDNTHYGIEN/DHE1**

Limited Admissions Program: Students must meet the preparatory coursework and any other prerequisites and apply to the program. Depending on available spots, students may be placed on a waiting list before starting the program. See the website or an advisor for details.

Preparatory Coursework

Student must have completed the following basic requirements before they may begin the application process.

REA 112HP** or a Next Generation Accuplacer Reading score of 256 or higher.....	0-4
CHM 130IN*, CHM 140IN*, BIO 201IH* or BIO 201IN*, and BIO 202IN*, with a combined average grade of B or better within the last six years.....	16
Complete the BIO 156IN* prerequisite if needed.....	0-4
Subtotal.	16-24

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	†
WRT 101 fulfills this requirement	
Arts and Humanities Requirement	3
Recommend: HIS 124 or PHI 130	
Social and Behavioral Sciences Requirement	3
Recommend: SOC 101	
Mathematics and Science Requirement	†
MAT 142, 151 or higher fulfills this requirement.	
Other Requirement	†
A PSY course fulfills this requirement, recommend: PSY 101.	
Special Requirement	†
Recommend: SOC 101	
Subtotal.	.6¥

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

DHE 101/101LC*	Dental Hygiene I/Dental Hygiene I Clinical	5
DHE 104/104LB*	Dental and Oral Morphology/Dental and Oral Morphology Lab	2
DHE 107*	Oral Embryology and Histology	2
DHE 112*	Preventive Dentistry	3
DHE 116/116LC ^Δ	Oral Radiography/Oral Radiography Clinical	3
DHE 119*	Periodontology	2
DHE 120*	Oral Pathology	2
DHE 122*	Pharmacology	2
DHE 132/132LB ^Δ	Dental Materials/Dental Materials Lab	3
DHE 150/150LB/ 150LC*	Dental Hygiene II/Dental Hygiene II Lab/Dental Hygiene II Clinical	5.5
DHE 208/208LC*	Pain and Anxiety Control for Dental Hygiene/Pain and Anxiety Control for Dental Hygiene Clinical	2
DHE 209*	Ethics and Practice Management	1
DHE 212*	Nutrition and Oral Health	1
DHE 213/213CA/ 213CB*	Advanced Periodontal Services/Advanced Periodontal Services Clinical-A/ Advanced Periodontal Services Clinical-B	4
DHE 216*	Community and Dental Health Education	3

DHE 250/250LC*	Dental Hygiene III/Dental Hygiene III Clinical	7
DHE 255/255LC*	Dental Hygiene IV/Dental Hygiene IV Clinical	4
Subtotal.		51.5

Required Support Courses

BIO 205IN	Microbiology SUN# BIO 2205	4
CMN 120	Business and Professional Communications	3
CSA 100	Computer Literacy	1
MAT 142*	Topics in College Mathematics SUN# MAT 1142	3
or MAT 151	College Algebra	
or higher		
WRT 101*	English Composition I SUN# ENG 1101	3
Psychology course (recommend PSY 101)		3
Subtotal.		17
Total credits (not including preparatory coursework)		74.5
Total credits (including preparatory coursework)		90.5-98.5

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** REA 112 will also be accepted.

Δ DAE 163/163LC will substitute for DHE 116/116LC if completed within the last three years. DAE 164/164LB will substitute for DHE 132/132LB if completed within the last three years. Students must have current CDA certification to substitute these courses. See academic advisor or faculty for information regarding course substitution.

Dental Laboratory Technologies

Dental Laboratory Technology — Associate of Applied Science Degree for Direct Employment

Learn the skills to construct and repair dentures, partial dentures, crowns, bridges and other dental appliances. Get 1,492 clock hours of laboratory practice. This program is accredited by the American Dental Association Commission on Dental Accreditation.

Before enrolling in this program, please complete a program application (available at:

www.pima.edu/programs-courses/credit-programs-degrees/health-professions/dental/dental-laboratory-admission.html)

What can I do with this degree?

Career Options: Work in a dental lab.

Academic Options: This program may apply toward a Bachelor of Applied Science (BAS). See an advisor.

Department/Contact Information:

Dean: 520-206-7694

Program Director: 520-206-3100

Dental Lab Tech Interest Program/Major Codes: **AOA9ALA/9DLT** - Same requirements as AA in Liberal Arts, General Concentration (AOAALA/ALA1/ALAG). See page 157 for program requirements.

Dental Lab Tech Program/Major Codes: **AASDNTLABTEC/DLT1**

Limited Admissions Program: Students must meet the preparatory coursework and any other prerequisites and apply to the program. Depending on available spots, students may be placed on a waiting list before starting the program. See the website or an advisor for details.

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	3
Arts and Humanities Requirement	3
Recommend: ART 100, 110 or 120	
Social and Behavioral Sciences Requirement	3
Recommend: POS 201 or 202	

Mathematics and Sciences Requirement..... †	
CHM 130IN fulfills the credit requirement for this category	
NOTE: The Math Competency must be met	
Other Requirement	3-4
Recommend: CIS 120 or PHI 123	
Special Requirement	
Recommend: POS 201 or 202	
Subtotal.	12-13¥

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
DLT 101/101LB*	Dental Morphology	3
DLT 102*	Non-Metallic Dental Materials	3
DLT 103/103LB*	Complete Dentures	4
DLT 104/104LB*	Dental Occlusion	4
DLT 105/105LB*	Partial Denture Construction	4
DLT 106/106LB*	Orthodontic Appliances	3
DLT 108*	Laboratory Management	3
DLT 201/201LB*	Dental Laboratory I	3
DLT 202*	Dental Metallurgy	3
DLT 203/203LB*	Fixed Bridgework	4
DLT 204/204LB*	Dental Laboratory II	3
DLT 206/206LB*	Dental Ceramics	4
DLT 207/207LB*	Advanced Dental Laboratory Technology	5
Subtotal.		.46

Required Support Courses

CHM 130IN*	Fundamental Chemistry SUN# CHM 1130	4
STU 100	College Success and Career Planning.....	1
Subtotal.		.5
Total credits as displayed		63-64

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

‡ WRT 154 or GTW 101 can be used to meet general education program requirements.

Digital Arts Studies

Whether your medium is print or film, television or the web, sharpen your skills and enhance your career prospects with these hands-on programs. Students wishing to prepare to transfer to a 4-year university program in audio, film and/or video should follow the Associate of Arts degree.

Digital Arts

Digital Arts — Associate of Applied Science Degree for Direct Employment

Prepare for a career in graphic design or web design.

What can I do with this degree?

Career Options: Become a graphic designer or web designer.

Academic Options: This program may apply toward a Bachelor of Applied Science (BAS). See an advisor.

Department/Contact Information:

Dean: 520-206-6690

Lead Faculty: 520-206-6840

Program/Major/Concentration Codes: **AASCOMMGRAPH/DAR1/****** (see concentration codes below)

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	†
GTW 101 or WRT 101 fulfills this requirement	
Arts and Humanities Requirement	†
ART 105, 115, or DAR 250 fulfills this requirement	
Social and Behavioral Sciences Requirement	3
Recommend: PSY 132	
Mathematics and Science Requirement	3
Recommend: BUS 151	
Other Requirement	3-4
Recommend: ANT 202, CMN 120, DAR 250, or ECN 150	

Special Requirement:

The C or G requirement should be fulfilled by completing an appropriate course in the above categories.

Subtotal. 9-10

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

DAR 102	Fundamentals of Digital Design	4
DAR 112	Graphic Design	4
DAR 120	Applied Computer Graphics	4
DAR 122	Desktop Graphics: Adobe Illustrator	4
DAR 221*	Photo Image Editing: Adobe PhotoShop	4
DAR 226*	Desktop Publishing for Digital Arts: Adobe InDesign	4
DAR 288*	Digital Arts Business and Portfolio Capstone	2
Subtotal.		26

Required Support Course

ART 105 or ART 115* or DAR 250	Exploring Art and Visual Studies	3-4
	Color and Composition	
	Computer 2-D Animation: Adobe After Effects	
STU 100	College Success and Career Planning	1

GTW 101*	Writing for Trades and Technical Occupations	3
or WRT 101	English Composition I SUN# ENG1101	
Subtotal.		7-8

Core Concentrations - A grade of C or better is required for graduation.

Complete one of the following concentrations:

Department faculty advisor or counselor approval is recommended in the selection of the program concentration.

Design (Concentration Code: DARD)

DAR 101	Color Rendering and Theory	4
DAR 111*	Typography	4
DAR 210*	Digital Arts Design Studio: Advertising Design	4
DAR 212*	Digital Arts Design Studio: Collateral Design	4
DAR 230*	Production Techniques for Print	4
Subtotal.		20

Web Design (Concentration Code: DARW)

DAR 252*	Interactive Design I	4
DAR 254*	Interactive Design II	4
DAR 256*	Web Design	4
DAR 257*	Advanced Web Design.	4
DAR 259	Mobile Application Design.	4
Subtotal.		20

Total credits as displayed **62-64**

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the General Education credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Digital Film Arts and Animation — Associate of Applied Science Degree for Direct Employment

Prepare for a career in television, film, video or other media. Courses cover filming, editing, production, design, lighting, script writing, and photography. Develop skills in animation, cinematography, video production and script writing. The Animation concentration has courses covering drawing, illustration, cartooning, digital imaging and computer animation. Students seeking to transfer into a digital/film arts or digital/film animation program at a university should pursue an Associate of Arts degree.

What can I do with this degree?

Career Options: Obtain employment as a writer, producer, editor, director, camera operator, or sound designer. Film: Leads to careers in television, film and audio production.

Academic Options: This program may apply toward a [Bachelor of Applied Science \(BAS\)](#). See an advisor.

Department/Contact Information:

Dean: 520-206-6690

Lead Faculty: 520-206-6976

Program/Major/Concentration Codes: **AASDAA/DAA/****** (see concentration codes below)

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	†
WRT 101 fulfills this requirement	
Arts and Humanities Requirement	3-4
Social and Behavioral Sciences Requirement	3
Mathematics and Science Requirement	3-4
NOTE: The Math Competency must be met	

Other Requirement	†
WRT 102 fulfills this requirement	
<i>Special Requirement:</i>	
<i>The C or G requirement should be fulfilled by completing an appropriate course in the above categories</i>	
Subtotal.	9-11¥

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

DAR 103	Introduction to Digital Video and Film Arts	3
DAR 115*	Digital Video Editing	4
DAR 124	Writing for Film and Television	3
Subtotal.		10

Required Support Courses

STU 100	College Success and Career Planning.....	1
WRT 101*	English Composition I SUN# ENG 1101	3
WRT 102*	English Composition II SUN# ENG 1102	3
Subtotal.		7

Core Concentrations - A grade of C or better is required for graduation.

Complete one of the following concentrations:

Department faculty advisor or counselor approval is recommended in the selection of the program concentration.

Digital and Film Arts (Concentration Code: DAAF)

DAR 125*	Digital Cinematography I	4
DAR 173	History of American Cinema	3
DAR 175*	The Art of Digital Cinematography	3
DAR 205*	Lighting for Film and Video	4
DAR 217*	Post Production for Film	4
DAR 225*	Digital Cinematography II	4
DAR 275	Basic Audio Production	4
DAR 285	Documentary Television and Film Production	4
DAR 286*	Digital Cinematography Capstone	4
Subtotal.		34

Digital Animation (Concentration Code: DAAA)

DAR 101	Color Rendering and Theory	4
DAR 120	Applied Computer Graphics	4
DAR 122*	DeskTop Graphics: Adobe Illustrator	4
DAR 140*	Digital Arts Illustration Studio: Illustration Technique and Media	4
DAR 176	Digital Animation	4
DAR 221*	Photo Image Editing: Adobe PhotoShop	4
DAR 250*	Computer 2-D Animation: Adobe After Effects	4
DAR 251*	Computer 3-D Animation: Maya	4
DAR 258*	Advanced Computer 3-D Animation: Maya	4
Subtotal.		36

Total credits as displayed 60-64

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the General Education credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Digital and Film Arts — Associate of Arts Degree for Transfer

A student planning to obtain a Digital and Film Arts bachelor's degree should follow the Associate of Arts Degree for Transfer in Liberal Arts.

The program is designed to prepare students to transfer to a four-year college or university program in audio, film, and/or video. Good writing skills and creative background in art, design, computers, and photography are helpful in this degree option.

Verification of transfer courses should be established with the transfer university or college or a Pima Community College counselor or faculty advisor.

Program/Major Codes: **AOAALA/ALA1**

Digital Game and Simulation

Digital Game and Simulation — Associate of Applied Science Degree for Direct Employment

Prepare for a career in digital games and simulations.

What can I do with this degree?

Career Options: Become a game play tester; game designer or programmer; or an artist, character builder, or modeler working with digital games and simulations.

Academic Options: This program may apply toward a Bachelor of Applied Science (BAS). See an advisor.

Department/Contact Information:

Dean: 520-206-6690

Lead Faculty: 520-206-6908

Program/Major/Concentration Codes: **AASDAG/DAG1/****** (see concentration codes below)

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	†
WRT 101 fulfills this requirement	
Arts and Humanities Requirement	3
For the Animation and Production concentration, recommend: ART 100, 131, or HUM 253	
For the Programming concentration, recommend: HUM 251, 253, or PHI 101	
Social and Behavioral Sciences Requirement	3
Recommend: HUM 260, PSY 132, or SOC 120	
Mathematics or Science Requirement	0-4
For the Animation and Production concentration, recommend: MAT 142, BIO 160IN, BIO 184IN, or GEO 102IN	
NOTE: The Math Competency must be met.	
For the Programming concentration, MAT 188 fulfills this requirement	
Other Requirement	0-3
For the Animation and Production concentration, recommend: ART 115	
For the Programming concentration, MAT 189 fulfills this requirement	
Special Requirement	
<i>The C or G requirement should be fulfilled by completing an appropriate course in the above categories.</i>	
Subtotal.	.6-13†

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

GAM 101	Game Design I	4
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GAM 102*	Game Design II	4
GAM 120*	Introduction to Game Programming	4
GAM 201*	Game Design III	4
GAM 218*	Game Design Portfolio Capstone	4
Subtotal.		20

Required Support Courses

STU 100	College Success and Career Planning	1
WRT 101*	English Composition I SUN# ENG1101	3
Subtotal.		4

Core Concentrations - A grade of C or better is required for graduation.

Complete courses from one of the following concentrations. Department faculty or advisor approval is recommended.

Digital Animation and Production (Concentration Code: DAGA)

ART 213*	Life Drawing I	3
DAR 120	Applied Computer Graphics	4
DAR 122*	Desktop Graphics: Adobe Illustrator	4
DAR 176	Digital Animation	4
DAR 221*	Photo Image Editing: Adobe PhotoShop	4
DAR 251*	Computer 3D Animation: Maya	4
DAR 258*	Advanced Computer 3D Animation: Maya	4
Subtotal.		27

Digital Programming (Concentration Code: DAGP)

CIS 129*	Programming and Problem-Solving I	4
CIS 131*	Programming and Problem-Solving II	4
CIS 142*	Introduction to C++	3
CIS 278*	C++ and Object-Oriented Programming	4
GAM 150	Game Programming I	4
GAM 151*	Game Programming II	3
GAM 296*	Independent Study in Game Design	4
MAT 188*	Precalculus I	4
MAT 189*	Precalculus II	3
Subtotal.		33
Total credits as displayed		63-64

† Core or support course(s) fulfill this requirement.

‡ General Education requires a minimum of 15 credits. This subtotal shows the General Education credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Education

From infancy through high school, from classroom basics to advanced certification, gain the skills to educate tomorrow's leaders.

- Early Childhood Education
- Teacher Education
- Educational Technology

Early Childhood Studies

Prepare to care for children, birth through age five, by learning theories and skills to best support young children's growth and development.

Early Childhood Studies — Child Development Associate (CDA) Preparation Certificate

Learn fundamental concepts in Early Care and Education. Courses focus on child development, learning and culture as well as teaching techniques, observation, and curriculum.

Before enrolling in this program, students must be working in a Department of Health Services-licensed, Department of Economic Security-certified, or tribally-regulated program with children from birth through age 5 years not yet in kindergarten. Most courses are site based at the student's place of employment.

What can I do with this certificate?

Career Options: Apply for the national Child Development Associate credential; or meet the CDA equivalency as defined by the National Association for the Education of Young Children (NAEYC), develop skills working with young children, or use the coursework to meet the state Department of Health Services professional development requirements. Completion meets the requirements for Level C of the Early Childhood Workforce Career Lattice.

Academic Options: Submit these courses as the formal early childhood education requirement for the eight CDA subject areas for the national CDA credential. Continue your studies by applying your coursework towards the Early Childhood Assistant Educator Certificate and/or the Early Childhood Studies AAS.

Department/Contact Information:

Dean: 520-206-5105

Center for Early Childhood Studies: 520-206-5245

Lead Faculty: 520-206-5107

Conditional Program/Major Codes: **CRTCDP/9CDP**

Conditional Enrollment Program: You will be eligible to enroll in CDA/ECE courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
CDA 103	Curriculum Planning and Schedule Development	1
CDA 138	Building Parent and Classroom Connections	3
CDA 161	Principles of Social Competence	1
CDA 222	Elements of Children's Culture	1
ECE 117 **	Child Growth and Development	3
or CDA 170 **	Ages and Stages of Young Children: Prenatal through Toddler	
and CDA 173 **	Ages and Stages of Young Children: The Preschool Years	
ECE 118	Foundations of Early Childhood Education (only if taken after Summer 2014).....	3
or CDA 102	The Child's Total Learning Environment	
and CDA 121	Techniques for Observing Children	
and CDA 271	Professionalism in Childcare	
Total credits as displayed		12

** CDA 170 and CDA 173, or ECE 117 fulfill the requirement for the CDA national credential but are not equivalent. Students interested in the Early Childhood Studies AAS should complete ECE 117.

Early Childhood Assistant Educator — Certificate for Direct Employment

Acquire theoretical knowledge and develop the competencies needed to enter a career and to continue professional growth in the care and education of children birth through age eight in various settings.

Before enrolling in this program, you must meet the requirements listed below:

- Valid Arizona Identity Verified Fingerprint (IVP) Clearance Card
- TB Test (negative result or a negative chest x-ray)
- Verification of required Immunizations

What can I do with this certificate?

Career Options: Apply for a position working with young children, or use credits toward professional development requirements. Completion meets the criteria for the Arizona Early Childhood Workforce Career Lattice, Level D.

Academic Options: Continue your studies by applying your coursework toward the Early Childhood Studies AAS.

Gainful Employment Information: www.pima.edu/ge-crtcae

Department/Contact Information:

Dean: 520-206-5105

Center for Early Childhood Studies: 520-206-5245

Lead Faculty: 520-206-5107

Conditional Program/Major Codes: **CRTCAE/9CAE**

Conditional Enrollment Program: You will be eligible to enroll in CDA/ECE courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
ECE 108*	Literature/Social Studies for Children.....	3
ECE 117	Child Growth and Development	3
ECE 118 or CDA 102 and CDA 121 and CDA 271	Foundations of Early Childhood Education (only if taken after Summer 2014). The Child's Total Learning Environment Techniques for Observing Children Professionalism in Childcare	3
ECE 125	Nutrition, Health, and Safety for the Young Child	3
ECE 211*	Inclusion of Young Children with Special Needs	3
ECE 226*	Positive Child Guidance	3
ECE or CDA Elective	.....	3
Complete three credits from the following: ECE 107, 115, 124, 129, 245, CDA 103, 112, 126, 138, 155, 161, 170, 173, 211, 222		
Subtotal.		21
Required Support Courses - A grade of C or better is required for graduation.		
ART 105 or MAT 106 or WRT 101	Exploring Art and Visual Culture	3
	Elementary Data Analysis with Spreadsheets English Composition I	
CSA 100	Computer Literacy.....	1
STU 100	College Success and Career Planning.....	1
Subtotal.		5
Total credits as displayed		26

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Early Childhood Studies — Associate of Applied Science Degree for Direct Employment

Learn to excel at caring for and educating young children through this flexible, high-quality program. Students planning to transfer to a bachelor's degree program should pursue the Associate of Arts in Liberal Arts in Early Childhood Education or Elementary Education.

Before enrolling in this program, you must meet the requirements listed below:

- Valid Arizona Identity Verified Fingerprint (IVP) Clearance Card
- TB Test (negative result or a negative chest x-ray)
- Verification of required Immunizations

What can I do with this degree?

Career Options: Become a teacher's aide, lead teacher or director of a pre-school center, or open your own home child care center. Degree completion meets the criteria for the Arizona Early Childhood Workforce Career Lattice Level E.

Academic Options: This program may apply toward a Bachelor of Applied Science (BAS). See an advisor.

Department/Contact Information:

Dean: 520-206-5105

Center for Early Childhood Studies: 520-206-5245

Lead Faculty: 520-206-5107

Conditional Program/Major Codes: **AASECS/9ECS**

Conditional Enrollment Program: You will be eligible to enroll in CDA/ECE courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	†
WRT 101 fulfills this requirement	
Arts and Humanities Requirement	3
Recommend: ART 105	
Social and Behavioral Sciences Requirement	†
ECE 117 fulfills this requirement	
Math and Science Requirement	†
MAT 106 fulfills this requirement	
Other Requirement	3
Recommend: ANT 112, ANT/HIS 127, or HUM 260	
Special Requirement	
Recommend: ANT 112, ANT/HIS 127, ART 105, or HUM 260	
Subtotal.	6†

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

ECE 115*	Supervision and Administration of Early Childhood Programs.	3
ECE 117	Child Growth and Development	3
ECE 118	Foundations of Early Childhood Education (only if taken after Summer 2014).	3
or CDA 102	The Child's Total Learning Environment	
and CDA 121	Techniques for Observing Children	
and CDA 271	Professionalism in Childcare	
ECE 125*	Nutrition, Health and Safety for the Young Child	3
ECE 211	Inclusion of Young Children with Special Needs.	3
ECE 226*	Positive Child Guidance	3
ECE 228*	The Young Child: Family, Culture, and Community	3
ECE 240*	Assessment of Young Children	3
ECE 246*	Integrating Learning and Lesson Planning: Literacy (was ECE 110)	3
ECE 292*	Early Childhood Education: Theory to Practice (was ECE 190)	4
Subtotal.		31

Required Support Courses- A grade of C or better is required for graduation.

CSA 100	Computer Literacy.	1
MAT 106	Elementary Data Analysis and Spreadsheets.	3
STU 100	College Success and Career Planning.	1
WRT 101	English Composition I SUN# ENG 1101	3
WRT 102*	English Composition II SUN# ENG 1102	3
AGEC Science course (recommend: BIO 105IN).		4
Subtotal.		15

Electives:	.....	8
Complete any at least 8 credits from the courses below. Contact the Center for Early Childhood Studies to select electives appropriate for your career goal.		
ECE 107	Human Development and Relations	(3)
ECE 108*	Literature/Social Studies for Children.....	(3)
ECE 124*	Math and Science for Children	(3)
ECE 129*	Infant and Toddler Education	(3)
ECE 136	Early Childhood STEAM.....	(3)
ECE 211*	Inclusion of Young Children with Special Needs	(3)
ECE 245*	Integrating Learning and Lesson Planning through the Arts.....	(3)
CDA 103	Curriculum Planning and Schedule Development	(1)
CDA 112	Guidance Principles for Encouraging Self-Discipline	(1)
CDA 126	Literature for Pre-School Children.....	(2)
CDA 138	Building Parent and Classroom Connections	(3)
CDA 155	Understanding How Children Learn and Development	(1)
CDA 161	Principles of Social Competence	(1)
CDA 170	Ages and Stages of Young Children: Prenatal through Toddler.....	(2)
CDA 173	Ages and Stages of Young Children: The Preschool Years	(1)
CDA 211	Small and Large Muscle Development	(2)
CDA 222	Elements of Children's Culture	(1)
Subtotal.	.....	8
Total credits as displayed	.....	60

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

AA in Liberal Arts - Early Childhood Education Concentration

See the Liberal Arts section for details on the degree requirements.

K-12 Education

Prepare to become an elementary or secondary school teacher in general education or special education.

Students who do not hold a bachelor's degree and plan to teach elementary school should pursue the Elementary Education Associate of Arts degree for transfer; those who wish to teach secondary school should pursue an Associate of Arts degree for transfer. All students will need to complete a bachelor's degree at a 4-year college or university before becoming a teacher.

Students who hold a bachelor's degree in any discipline may be eligible to enroll in the Post-Degree Teacher Certification program and immediately start working toward teacher certification and advanced endorsements.

AA in Liberal Arts - Elementary Education Concentration

See the Liberal Arts section for details on the degree requirements.

Education — Elementary Certification — Post-Degree Certificate for Direct Employment

Prepare for Arizona General Education Elementary (grades K-8) teacher certification with this post-degree program. Courses emphasize professional teaching standards, technology, data literacy, diversity and current teaching theory, and include supervised and directed internship.

Before enrolling in this program, you must see a program coordinator, attend an information session, and meet the following admission requirements:

- Bachelor's degree from an accredited Institution
- Passing score on NES Elementary Subject Knowledge exam (within the last 8 years)
- Additional subject knowledge exam(s) may be required for Intern Pathway candidates teaching middle grades or single subject
- Valid Arizona Identify Verified Fingerprint (IVP) Clearance Card

What can I do with this certificate?

Career Options: Elementary school teacher.

Academic Options: Continue your education with post-graduate work in education offered by Pima.

Gainful Employment Information: www.pima.edu/ge-crdelm

Department/Contact Information:

Dean: 520-206-5105

Program Manager/Department Chair: 520-206-5144

Conditional Program/Major Codes: **CRDELM/9ELM**

Conditional Enrollment Program: You will be eligible to enroll in EDC/ESE courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Core Courses – Must be completed with grades of C or higher.		
Field Experience must be completed with grades of B or higher. A program GPA of 3.0 or higher is required for graduation.		
Foundations:		
EDC/ESE 250	Introduction to Teaching	3
EDC/ESE 251	Educational Psychology	3
EDC/ESE 252	Survey of Exceptional Education	3
EDC 254*	Classroom Management: Elementary	3
EDC/ESE 257	21st Century Learning	3
Subtotal.		15
Methods Courses:		
EDC 270*	Elementary Methods: English Language Arts	3
EDC 271*	Elementary Methods: Math	3
EDC 272*	Elementary Methods: Reading/Phonics	3
EDC 273*	Elementary Methods: Science/Social Studies	3
EDC 274*	Elementary Methods: Instruction Across the Curriculum	3
Subtotal.		15
Pathways		
Candidates who are not currently teaching in an elementary classroom take the Traditional Pathway.		
Candidates who are currently teaching full time in an elementary classroom on an intern certificate take the Internship Pathway		
Field Experiences (Traditional Pathway)		
EDC 267	Traditional Practicum	2
EDC 291	Student Teaching: Elementary	8
Subtotal		10
Field Experiences (Internship Pathway)		
EDC 266	Internship Practicum	2
EDC 291A	Student Teaching I: Elementary	4
EDC 291B	Student Teaching II: Elementary	4
Subtotal		10
Required Support Courses – Must be completed with grades of C or higher.		
EDC 286	Structured English Immersion Methods	3
POS 210**	National and State Constitutions	0-3

Subtotal.	3-6
Total credits as displayed	43-46

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** This course will be waived with an official passing score in the Constitutions of the U.S. and Arizona AEPA (Arizona Educator Proficiency Assessment.) See program coordinator for additional information.

Education — Secondary Certification — Post-Degree Certificate for Direct Employment

Prepare for Arizona General Education Secondary (grades 6-12) teacher certification with this post-degree program. Courses emphasize professional teaching standards, technology, data literacy, diversity and current teaching theory, and include supervised and directed internship.

Before enrolling in this program, you must see a program coordinator, attend an information session, and meet the following admission requirements:

- Bachelor's degree from an accredited Institution
- Passing score on relevant NES/AEPA Secondary Subject Knowledge exam (within the past 8 years) or Bachelor's degree in the discipline
- Valid Arizona Identify Verified Fingerprint (IVP) Clearance Card

What can I do with this certificate?

Career Options: Secondary school teacher.

Academic Options: Continue your education with post-graduate work in education offered by Pima.

Gainful Employment Information: www.pima.edu/ge-crdsec

Department/Contact Information:

Dean: 520-206-5105

Program Manager/Department Chair: 520-206-5144

Conditional Program/Major Codes: **CRDSEC/9SEC**

Conditional Enrollment Program: You will be eligible to enroll in EDC/ESE courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Core Courses – Must be completed with grades of C or higher.		
Field Experiences must be completed with grades of B or higher. A program GPA of 3.0 or higher is required for graduation.		
Foundations:		
EDC/ESE 250	Introduction to Teaching	3
EDC/ESE 251	Educational Psychology	3
EDC/ESE 252	Survey of Exceptional Education	3
EDC 256	Classroom Management: Secondary	3
EDC/ESE 257	21st Century Learning	3
Subtotal.		15

Methods:

EDC 275	Secondary Methods: English Language Arts/Social Sciences	3
or EDC 276	Secondary Methods: Math/Science	
EDC 277	Secondary Methods: Instruction Across the Curriculum	3
Subtotal.		6

Pathways

Candidates who are not currently teaching in a secondary classroom take the Traditional Pathway.

Candidates who are currently teaching full time in a secondary classroom on an intern certificate take the Internship Pathway.

Field Experiences (Traditional Pathway)

EDC 267	Traditional Practicum	2
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EDC 292	Student Teaching: Secondary	8
Subtotal		10
Field Experiences (Internship Pathway)		
EDC 266	Internship Practicum	2
EDC 292A	Student Teaching I: Secondary	4
EDC 292B	Student Teaching II: Secondary	4
Subtotal		10
Required Support Courses – Must be completed with grades of C or higher.		
EDC 286	Structured English Immersion Methods	3
POS 210**	National and State Constitutions	0-3
Subtotal		3-6
Total credits as displayed		34-37

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** This course will be waived with an official passing score in the Constitutions of the U.S. and Arizona AEPA (Arizona Educator Proficiency Assessment.) See a program coordinator for additional information.

Special Education Mild-Moderate Disabilities Certification — Post-Degree Certificate for Direct Employment

Prepare for Arizona Special Education Mild-Moderate Disabilities (grades K-12) certification. This post-degree program applies to students who do not have K-12 teacher certification. Courses emphasize professional teaching standards, instruction for students with diverse needs, technology, current teaching theory, and include supervised and directed field experiences.

Before enrolling in this program, you must see a program coordinator, attend an information session, and meet the following admission requirements:

- Bachelor's degree from an accredited Institution
- Passing score on NES Special Education Exam (Intern Pathway candidates)
- Valid Arizona Identify Verified Fingerprint (IVP) Clearance Card

What can I do with this certificate?

Career Options: Special Education Mild-Moderate Disabilities K-12 Teacher.

Academic Options: Continue your education with post-degree work in education offered by Pima.

Gainful Employment Information: www.pima.edu/ge-crdeeds

Department/Contact Information:

Dean: 520-206-5105

Program Manager/Department Chair: 520-206-5144

Conditional Program/Major Codes: **CRDEDS/9EDS**

Conditional Enrollment Program: You will be eligible to enroll in EDC/ESE courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Courses – Must be completed with grades of C or higher.		
Field experiences must be completed with grades of B or higher. A program GPA of 3.0 or higher is required for graduation.		
Foundations:		
EDC/ESE 250	Introduction to Teaching	3
EDC/ESE 251	Educational Psychology	3
EDC/ESE 252	Survey of Exceptional Education	3
ESE 254*	Foundations of Instruction: Mild-Moderate Disabilities	3
ESE 255	Classroom Management for Mild-Moderate Disabilities	3
EDC/ESE 257	21st Century Learning	3
Subtotal		18

Methods:

ESE 270	Methods of Instruction: Students/Mild-Moderate Disabilities	3
ESE 271*	Mild-Moderate Methods: K-12 Instruction Across the Curriculum.....	3
ESE 272*	Developmental Reading, Instruction, Assessment, Remediation.....	3
ESE 273	Diagnosis and Assessment of Mild-Moderate Disabilities.....	3
Subtotal.		12

Pathways

Candidates who are not currently teaching in a Mild-Moderate Special Education classroom take the Traditional Pathway.

Candidates who are currently teaching full time in a Mild-Moderate Special Education classroom on an intern certificate take the Internship Pathway.

Field Experiences (Traditional Pathway)

EDC 267	Traditional Practicum	2
ESE 290	Student Teaching: Mild-Moderate Disabilities.....	8
Subtotal.		10

Field Experiences (Internship Pathway)

EDC 266	Internship Practicum	2
ESE 290A	Student Teaching I: Mild-Moderate Disabilities	4
ESE 290B	Student Teaching II: Mild-Moderate Disabilities	4
Subtotal.		10

Required Support Courses - Must be completed with grades of C or higher.

EDC 286	Structured English Immersion Methods	3
POS 210**	National and State Constitutions.....	0-3
Subtotal.		3-6
Total credits as displayed		43-46

* This course has a prerequisite, co-requisite or recommendation. See course description section

** This course is not required with an official passing score in the Constitutions of the U.S. and Arizona AEPA (Arizona Educator Proficiency Assessment.) See a program coordinator for additional information.

Special Education Mild-Moderate Disabilities Certification for Certified Teachers — Post-Degree Certificate for Direct Employment

Prepare for Arizona Special Education Mild-Moderate Disabilities (grades K-12) certification. This post-degree program applies to students who have Elementary, Secondary, or Special Education teacher certification. Courses emphasize professional teaching standards, technology, diversity and current teaching theory, and include supervised and directed field experiences. A program GPA of 3.0 or higher is required for graduation.

Before enrolling in this program, you must see a program coordinator, attend an information session, and meet the following admission requirements:

- Bachelor's degree from an accredited Institution
- Passing score on NES Special Education Exam (Intern Pathway candidates)
- Valid Arizona Identify Verified Fingerprint (IVP) Clearance Card
- Elementary or Secondary Teaching Certificate

What can I do with this certificate?

Career Options: Special Education Mild-Moderate Disabilities K-12 Teacher.

Academic Options: Continue your education with post-degree work in education offered by Pima.

Gainful Employment Information: www.pima.edu/ge-crdest

Department/Contact Information:

Dean: 520-206-5105

Program Manager/Department Chair: 520-206-5144

Conditional Program/Major Codes: **CRDEST/9EST**

Conditional Enrollment Program: You will be eligible to enroll in EDC/ESE courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Core Courses – Must be completed with grades of C or higher.		
Field experiences must be completed with grades of B or higher. A program GPA of 3.0 or higher is required for graduation.		
Foundations:		
EDC/ESE 252	Survey of Special Education	3
ESE 254*	Foundations of Instruction: Mild-Moderate Disabilities	3
ESE 255	Classroom Management for Mild-Moderate Disabilities	3
EDC/ESE 257	21st Century Learning	3
Subtotal.		12
Methods:		
ESE 270	Methods of Instruction: Students/Mild-Moderate Disabilities	3
ESE 271*	Mild-Moderate Methods: K-12 Instruction Across the Curriculum	3
ESE 272*	Developmental Reading, Instruction, Assessment, Remediation	3
ESE 273	Diagnosis and Assessment of Mild-Moderate Disabilities	3
Subtotal.		12
Pathways		
Candidates who are not currently teaching in a Mild-Moderate Special Education classroom take the Traditional Pathway.		
Candidates who are currently teaching full time in a Mild-Moderate Special Education classroom but are not certified in Mild-Moderate Special Education take the Internship Pathway.		
Field Experiences (Traditional Pathway)		
EDC 267	Traditional Practicum	2
ESE 290	Student Teaching: Mild-Moderate Disabilities	8
Subtotal.		10
Field Experiences (Internship Pathway)		
ESE 290A	Student Teaching I: Mild-Moderate Disabilities	4
ESE 290B	Student Teaching II: Mild-Moderate Disabilities	4
Subtotal.		8
Required Support Courses		
EDC 286**	Structured English Immersion Methods	0-3
POS 210***	National and State Constitutions	0-3
Subtotal.		0-6
Total credits as displayed		32-40

* This course has a prerequisite, co-requisite or recommendation. See course description section

** This course is not required if an SEI Endorsement is displayed on the student's teaching certificate.

*** This course is not required with an official passing score in the Constitutions of the U.S. and Arizona AEPA (Arizona Educator Proficiency Assessment). See Program advisor for additional information.

Emergency Medical Technology

Emergency Medical Technology — Certificate for Direct Employment

Learn pre-hospital emergency medical care, including physical assessment, medical techniques and ambulance operations. This program is approved by the Arizona Department of Health Services, Bureau of Emergency Medical Services towards certification as an EMT in the State of Arizona.

Before enrolling in this program you must meet certain admission requirements:

- Be 18 years old when class starts.
- Provide proof of a negative drug screening; obtain a drug screen form and instructions from the EMT Service Center at East Campus.
- Provide a fingerprint clearance card or be fingerprinted the first day of class.
- Have cardiopulmonary resuscitation (CPR) certification at the Healthcare Provider level with at least 6 months left in the certification period. This card must remain current throughout the EMT program and the certification process.
- Have the ability to lift 125 pounds alone and 250 pounds with a partner.
- Must provide proof of personal medical insurance. This coverage must remain current throughout the course.
- Score at least 84 on the College Reading Assessment test.
- Meet with EMT Service Center staff prior to enrolling in the course.
- Provide immunization records for: Measles, Mumps, Rubella (MMR), Varicella (VZV, Varivax)
- Tetanus/Diphtheria (adult type e.g., Td or Tdap) within the last ten years.
- Tuberculosis (TB) screening indicating negative activity (given no more than six months prior to the beginning of the course)
- Hepatitis B vaccination series (HBV is encouraged but is not required)
- Flu vaccine is highly encouraged

EMT Program information is available online at <https://www.pima.edu/programs-courses/credit-programs-degrees/public-safety/emt/basic-emt.html>

Certification testing requires an additional fee to the National Registry of Emergency Medical Technicians (NREMT). Students with felony and some misdemeanor convictions may not be eligible for certification—contact the Arizona Department of Health Services for additional information about eligibility.

What can I do with this certificate?

Career Options: Take required Arizona and National Registry of Emergency Medical Technicians exams that qualify you to work as an emergency medical technician.

Academic Options: Once you receive EMT certification and work as an emergency medical technician, continue your studies by pursuing the Paramedic Associate of Applied Science Degree.

Department/Contact Information:

Dean: 520-206-7694

EMT Lab: 520-206-7839

Conditional Program/Major Codes: **CRDEMEDTEC-B/9EMS**

Conditional Enrollment Program: You will be eligible to enroll in EMT course once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Core Course - A grade of C or better is required for graduation.		
EMT 100*	Emergency Medical Technology	9
Total credits as displayed		9

Emergency Medical Technology — Paramedic — Associate of Applied Science Degree for Direct Employment

The Associate of Applied Science program increases the knowledge and skill of the EMT and AEMT in advanced life support including endotracheal intubation, cardiac arrhythmia recognition and intervention. The program also includes drug therapy, invasive procedures,

advanced airway management, and I.V. therapy.

Before enrolling in this program, you must meet certain admission requirements:

- A. American Heart Association Basic Life Support for the Healthcare Provider certification card. This card must remain current throughout the paramedic program and the certification process
- B. Current EMT or higher prehospital certification, at either the National Registry or State of Arizona certification.
- C. . This certification **MUST** remain current throughout the paramedic program and certificate process. A lapse in certification will result in immediate expulsion from the program.
- D. Documentation of being 18 years old.
- E. Reading assessment at the 9th grade level.
- F. Current health insurance coverage. This coverage must remain current throughout the course of training and the certification process.
- G. Negative results of a 5-panel drug screening within 6 months of the course start date. Screening must include:
 - Marijuana
 - Cocaine
 - Barbiturates
 - Sedatives
 - Amphetamines
- H. Provide proof of immunity or immunization for the following:
 - Proof of negative TB test or chest X-ray within 6 months prior to application as defined in R9-25-308 (D) and proof of annual TB testing while enrolled in the program.
 - Measles (Rubeola)/Mumps/Rubella.
 - Tetanus/Diphtheria within the last 10 years.
 - Results of serological testing showing Hepatitis B (HBV) immunization, begin HBV vaccination series, or sign the release of liability claims/declination form.
 - Flu Shot (this needs to be obtained during flu season, see program staff for dates)
- I. Evidence of a current Background Security Clearance
- J. Successfully Screen for the following areas:
 - ALS written exam
 - Oral Board screening
 - Practicals screening

What can I do with this degree?

Career Options: Paramedic

Academic Options: This program may apply toward a Bachelor of Applied Science (BAS). See an advisor.

Department/Contact Information:

Program Manager: 520-206-3502

Paramedic Interest Program/Major Codes: **AOA9ALA/9EMD** - Same requirements as AA in Liberal Arts, General Concentration (AOAALA/ALA1/ALAG). See page 157 for program requirements.

Paramedic Program/Major Codes: **AASEMD/EMD1**

Competitive Admissions Program: Students must meet the preparatory coursework and any other prerequisites and apply to the program. Only the most qualified students are admitted to the program. See the website or an advisor for details.

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 00.

Communication Requirement	3
Recommend: WRT 101 or 154	
Arts and Humanities Requirement	3
Social and Behavioral Sciences Requirement	3
Mathematics or Science Requirement	3
NOTE: The Math Competency must be met	
Other Requirement	3
Recommend: CMN 120	
Special Requirement	
Recommend: CMN 120	
Subtotal.	15

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
All of the core courses require acceptance into the Paramedic Program.		
EMT 170*	ALS Operations	1.5
EMT 205*	ALS Pharmacology and Medication Administration	3.5
EMT 214*	ALS Advanced Special Considerations	2
EMT 218*	Paramedic National Registry Preparation	3
EMT 219*	ALS Foundations	1
EMT 221*	ALS Airway and Ventilation	2
EMT 222*	ALS Patient Assessment and Assessment-Based Management	2
EMT 223*	ALS Trauma Emergencies and Systems	2.5
EMT 224*	ALS Medical Emergencies	4
EMT 225*	ALS Special Medical Considerations	2.5
EMT 227LC*	ALS Practicum: Clinical Lab - Emergency Room	1.5
EMT 228LC*	ALS Practicum: Vehicular Lab - Team Member	2
EMT 230*	Basic ECG Interpretation	3
EMT 242*	ALS Advanced Foundations	4
EMT 244*	ALS Advanced Medical Emergencies	2.5
EMT 247LC*	ALS Advanced Practicum: Clinical Lab -Specialized Care	2
EMT 248LC*	ALS Advanced Practicum: Vehicular Lab - Team Lead (Capstone)	4
EMT 250	Advanced Cardiac Care	1
EMT 252	Pediatric Advanced Life Support	1
EMT 254*	Advanced ECG Interpretation	2
EMT 295	ALS Independent Research	1
Subtotal.		.48
Total credits as displayed		.63

¥ General Education requires at least 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Fashion Design

Prepare for an exciting career in Fashion Design. Complete this program by taking classes in the Fashion Design and Clothing Department at Pima's West Campus.

Fashion Design — Certificate for Direct Employment

Prepare for entry-level careers in fashion design for the apparel industry by studying fashion drawing, imaginative design, historical and global fashion, sewing applications, textiles, and pattern drafting.

What can I do with this certificate?

Career Options: Seek entry level positions by studying fashion drawing, imaginative design, historical and global fashion, sewing applications, textiles, and pattern drafting.

Academic Options: Continue your studies by taking courses toward AA in Liberal Arts, Fashion Design concentration.

Gainful Employment Information: www.pima.edu/ge-crtfdc

Department/Contact Information:

Dean: 520-206-6690

Lead Faculty: 520-206-3028

Program/Major Codes: **CRTFDC/FDC**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
FDC 110	Clothing Construction I	3
FDC 111*	Clothing Construction II	3
FDC 121	Flat Pattern Making I	3
FDC 122	History of Clothing	3
or FDC 132	Global Fashion and Culture	3
FDC 126	Textiles	3
FDC 141	Introduction to Fashion Design	3
FDC 144*	Fashion Drawing	3
FDC 211*	Clothing Construction III	3
Choose one of the following courses:		
FDC 123*	Computer Patternmaking I	3
FDC 212*	Tailoring: Jackets	
FDC 213*	Tailoring: Pants and Shirts	
FDC 214*	Bridal and Formal Wear	
FDC 215*	Sewing with Knits	
FDC 221*	Flat Patternmaking II	
FDC 241*	Draping	
FDC 245*	Digital Fashion Design	
Total credits as displayed		27

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

AA in Liberal Arts - Fashion Design Concentration

See the Liberal Arts section for details on the degree requirements.

Fire Science

Fire Science Academy Track — Certificate for Direct Employment

Gain firefighting, hazardous materials and wildland firefighting skills. This program meets Arizona certification requirements for Firefighter I and II, and will enable students to achieve International Fire Service Accreditation Congress (IFSAC) certification as a Hazmat First Responder. In addition, students will be awarded a certificate of completion for wildland firefighting training from the National Wildfire Coordinating Group.

Before enrolling in this program, you must fulfill meet certain requirements.

- Documentation of being 18 years old (for acceptance into PCC Fire Academy).
- Medical evaluation (for acceptance into PCC Fire Academy).
- Attend a program orientation.

What can I do with this certificate?

Career Options: Students will be eligible to take the State of Arizona Certification Test to become a certified firefighter and/or work as a wildland firefighter.

Academic Options: Continue your studies by taking classes toward an Associate of Applied Science in Fire Science.

Gainful Employment Information: www.pima.edu/ge-crtfirescien

Department/Contact Information:

Dean/Lead Faculty: 520-206-3583

Conditional Program/Major Codes: **CRTFIRESCIEN/9FSI**

Conditional Enrollment Program: You will be eligible to enroll in FSC courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
EMT 100**	Emergency Medical Technology	9
FSC 101	Principles of Emergency Services (FESHE Core)	3
FSC 110	Rope I	0.75
FSC 127	Principles of Emergency Services Safety and Survival (FESHE Core)	3
FSC 130*	Strength and Fitness for the Fire Service	1.0
FSC 149*	Fire Operations I	4
FSC 150*	Fire Operations II	4
FSC 153	Hazardous Materials	1.5
FSC 160	Wildland Firefighting	2
FSC 173*	Records and Reports	0.5
Total credits as displayed		28.75

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** EMT 100 will be waived if student obtained certification at another institution and student holds a current state or national certification.

Fire and Emergency Services Higher Education (FESHE) — Associate of Applied Science Degree for Direct Employment

Prepare for the day-to-day demands of the profession and learn to cope with challenges in the field. This degree prepares students to move toward managerial and command positions.

Before enrolling in this program, you must fulfill meet certain requirements.

- Documentation of being 18 years old (for acceptance into PCC Fire Academy).
- Medical evaluation (for acceptance into PCC Fire Academy).
- Attend a program orientation.

What can I do with this degree?

Career Options: Seek employment or increase promotional opportunities in the fire service.

Academic Options: This program may apply toward a Bachelor of Applied Science (BAS). See an advisor.

Department/Contact Information:

Dean/Lead Faculty: 520-206-3583

Conditional Program/Major Codes: **AASFSC/9FSC**

Conditional Enrollment Program: You will be eligible to enroll in FSC courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	3
Recommend: WRT 101 or 154	
Arts and Humanities Requirement	3
Social and Behavioral Sciences Requirement	3
Mathematics and Science Requirement	3
NOTE: Math Competency must be met	
Other Requirements	3
Recommend: CMN 120 or WRT 102	
Special Requirement	
If taken, CMN 120 fulfills this requirement; otherwise, complete a C or G course from one of the other general education categories.	
Subtotal.	15

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

EMT 100**	Emergency Medical Technology	9
Fire Academy		
FSC 110	Rope I.	0.75
FSC 130	Strength and Fitness for the Fire Science	1
FSC 149	Fire Operations I	4
FSC 150*	Fire Operations II	4
FSC 153	Hazardous Materials	1.5
FSC 160	Wildland Firefighting	2
FSC 173	Records and Reports	0.50
Feshe Courses		
FSC 101***	Principles of Emergency Services (FESHE Core)	3
FSC 120	Fire Behavior and Combustion (FESHE Core)	3
FSC 123	Building Construction Related to the Fire Service (FESHE Core)	3
FSC 124	Fire Prevention (FESHE Core)	3
FSC 126	Fire Protection Systems in the Fire Service (FESHE Core)	3
FSC 127***	Principles of Emergency Services Safety and Survival (FESHE Core)	3
FSC 174	Fire Investigation I (FESHE Non-Core)	3
FSC 252	Fire Service Strategy and Tactics (Capstone) (FESHE Non-Core)	3
Subtotal.		46.75
Total credits as displayed		61.75

Fire Science Electives ****

FSC 111	Rope II	0.75
FSC 112*	Rope III	0.75
FSC 125	Hydraulics and Water Supply (FESHE Non-Core)	2.5
FSC 128	Incident Safety Officer	1
FSC 163*	Fire Apparatus and Equipment	3
FSC 170*	Fire Science Leadership	3
or FSC 170A*	Fire Science Leadership I.	1
and FSC 170B*	Fire Science Leadership II	1
and FSC 170C*	Fire Science Leadership III.	1
FSC 180*	Driver Training for Fire Science	3

FSC 260*	Fire and Emergency Services Instructor	2
FSC 270*	Leadership I for Fire Services Executives	1
FSC 271*	Leadership II for Fire Services Executives	1
FSC 272*	Leadership III for Fire Services Executives	1
FSC 273*	Leadership IV for Fire Services Executives	1
FSC 274*	Leadership V for Fire Services Executives	1
FSC 280	Fire Chief Preparation	4
FSC 289*	Current Issues in Fire Science	2

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** EMT 100 will be waived if student obtained certification at another Institution and student holds a current state or national certification. Additional FSC credits from the list of Fire Science Electives will be required to reach a total of at least 60 credits toward the degree.

*** FSC 101 and 127 are FESHE courses completed as part of the Fire Academy.

****Electives that may be used to substitute certain classes in Required Core section, or credits for EMT 100. Contact the fire science program office or Fire Program Advisor for more details.

Fitness and Sport Sciences

Learn to coach athletes, teach physical education or train individuals in personal fitness.

Fitness Professional — Certificate for Direct Employment

Learn exercise and fitness theories and the skills to teach people how to safely exercise. The program may include work-related experiences at the Fitness and Conditioning Center and in local fitness clubs and agencies.

What can I do with this degree?

Career Options: Work as a personal trainer and/or group fitness instructor in your own business or within a fitness club or agency. Take exams for certification through the American College of Sports Medicine (ACSM), the American Council of Exercise (ACE), or the National Strength and Conditioning Association (NSCA).

Academic Options: A student planning to transfer to obtain a bachelor's degree in Exercise Science should follow the Associate of Science Degree for Transfer.

Gainful Employment Information: www.pima.edu/ge-crtfitness

Department/Contact Information:

Dean: 520-206-6996

Lead Faculty: 520-206-6685

Program/Major Codes: **CRTFITNESS/FSP1**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
FSN 154 or FSS 241	Nutrition Nutrition for Exercise and Sport	3
FSS 208*	Group Fitness Instructor	2
FSS 218*	Strength Training: Applied Principles and Techniques	3
FSS 234 or FSS 234A & 234B	Fundamentals of Exercise Science	4
FSS 236*	Health Communication: Behavioral Change	2
FSS 276*	Exercise Testing and Prescription	3
FSS 277*	Cardiovascular Training: Physiology and Programming	3
FSS 281*	Capstone: Certified Personal Trainer	1
Subtotal.		21

Required Support/Elective Courses

Select 6 credits from the following list:

FAW 182	Healthy Living and Mind-Body Training	3
FAW 183	Health Coach Professional	3
FAW 184	Health, Wellness, and Physical Activity	3
FSS 238	Introduction to Sports Injury Management	3
FSS 260	Business Practices for the Personal Trainer	2
FSS 262*	Personal Trainer: Special Populations	2
FSS 271	Sport Psychology	3
FSS 273	Sport Physiology	3
FSS 280*	Weight Management Specialist	1
FSS 291*	Fitness and Sport Sciences Internship	3
Subtotal.		6
Total credits as displayed		27

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Fitness and Wellness Specialist — Certificate for Direct Employment

The Fitness and Wellness Specialist Certificate program is designed to educate students in the science and principles supporting the growing field of wellness. Students will acquire the knowledge needed to work as a professional in the wellness field and develop the skills for positive behavioral change. Students who complete this certificate and wish to practice in the profession will be prepared to sit for a national certification exam. Those who are taking the program specifically for personal development will be able to safely and effectively make healthier lifestyle choices.

Before enrolling in this program, students are encouraged to have successfully completed or be concurrently enrolled in ICS 081 or MAT 089A, and REA 112, and WRT 101.

Certification testing requires an additional fee to the American Council of Exercise (ACE). Students must be 18 years or older to apply for the certification exam, and possess proof of CPR/AED certification at time of testing.

What can I do with this degree?

Career Options: Work as a personal trainer, group exercise leader, health club sales or management professional, community health leader, corporate wellness programs coordinator, recreation worker/leader, and many other health and wellness related professions. Additional options include pursuing further studies toward exercise science, physical therapy, strength and conditioning, or athletic training. Students may be required to show proof of CPR/AED certificate upon future employment. Take the national certification exam after completion of program through American Council of Exercise (ACE) Health Coach, which is accredited by the National Commission for Certifying Agencies (NCCA).

Academic Options: A student planning to transfer to obtain a bachelor's degree in Exercise Science, Exercise and Wellness, Health Education and Health Promotion should follow the Associate of Science Degree for Transfer.

Gainful Employment Information: www.pima.edu/ge-crtfws

Department/Contact Information:

Dean: 520-206-6996

Lead Faculty: 520-206-6685

Program/Major Codes: **CRTFWS/FWS**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
FAW 182	Healthy Living and Mind-Body Training	3
FAW 183	Health Coach Professional	3
FAW 184	Health, Wellness, and Physical Activity	3
FSN 154	Nutrition	3
or FSS 241	Nutrition for Exercise and Sport	3
FSS 234	Fundamentals of Exercise Science	3-4
or FSS 234A & 234B		
or FSS 273	Sport Physiology	
Subtotal.		15-16
Required Support/Elective Courses		
Select at least 7 credits from the following list:		
FAW**	Activity Classes (Choose up to 3 FAW group-fitness classes)	1-3
FSS 280*	Weight Management Specialist	2
FSS 291*	Fitness and Sports Sciences Internship	3
PSY 218*	Health Psychology	3
WED 110	Introduction to Complementary and Alternative Medicine	3
WED 111	Self-Care for Personal Wellness	2
Subtotal.		7
Total credits as displayed		22-23

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** Only one (1) credit fitness classes allowed and cannot be repeated.

Physical Education, Exercise and Wellness, Athletic Trainer

Meet with Fitness and Sport Science faculty or an advisor to plan courses. A student planning to transfer to obtain a bachelor's degree in Physical Education, Exercise and Wellness, or Athletic Trainer should follow the **Associate of Arts Degree for Transfer in Liberal Arts**. A student planning to transfer to obtain a bachelor's degree in Exercise Science should follow the **Associate of Science Degree for Transfer**. Contact an advisor from the transfer school and/or use a transfer guide for verification of transfer courses.

General Studies

General Studies — Associate of General Studies Degree

This degree allows students to uniquely design an associate’s degree in collaboration with an advisor or counselor. Courses may be chosen from a variety of subject areas. Students must meet with an advisor or counselor, complete an application, and be accepted into the program. This program is not for students who already have completed another degree.

What can I do with this degree?

- Career Options:** Select courses to fit a career of your choice.
- Academic Options:** Continue taking classes toward a transfer degree.

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	3
Arts and Humanities Requirement	3-4
Social and Behavioral Science Requirement	3
Mathematics and Science Requirement	3-4
NOTE: The Math Competency must be met	
Other Requirement	3-4
Special Requirement	
The C or G requirement should be fulfilled by completing an appropriate course in the above categories.	
Subtotal.	15-18

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
Electives		42-45
Complete courses numbered 100 or higher. See an advisor to develop an education plan.		
Subtotal.		42-45
Total credits as displayed		60

Health Information Management

Health Information Technology — Associate of Applied Science for Direct Employment

Prepare for entry-level employment or advancement within the growing healthcare industry as a professionally trained Health Information Technician. Health Information Technician professionals work behind the scenes to support patient care in clinics, hospitals, physician and specialty practices and in external agencies including legal firms and research centers.

What can I do with this degree?

Career Options: Find entry-level employment as a medical coder, medical billing and insurance claims specialist, or physician or hospital coder.

Academic Options: This program may apply toward a Bachelor of Applied Science (BAS). See an advisor.

Department/Contact Information:

Dean: 520-206-6916

Lead Faculty: 520-206-7186

Program/Major Codes: **AASOAH/OAH**

Course Number	Course Title	Credit Hours
General Education Requirements - A grade of C or better is required for graduation.		
<i>Course lists for each General Education category listed below can be found starting on page 49.</i>		
Communication Requirement		†
WRT 101 fulfills this requirement.		
Arts and Humanities Requirement		3
Recommend: AIS/ANT/ARC 205, HIS 141 or 142		
Social and Behavioral Requirement		3
Recommend: ECN 150, POS 210, PSY 101, or SOC 101		
Mathematics and Sciences Requirement		†
MAT 106 fulfills this requirement.		
Other Requirement		†
BIO 160IN fulfills this requirement		
Special Requirement		
Recommend: AIS/ANT/ARC 205, HIS 141 or 142		
Subtotal.		6¥
Required Core Courses - A grade of C or better is required for graduation.		
HIT 100	Introduction to Health Information Management	3
HIT 101*	Introduction to ICD Coding	3
HIT 102*	CPT Coding	3
HIT 105	Medical Terminology	3
HIT 108	Health Information Employment Policies	1
HIT 112*	Health Insurance and Medical Billing	3
HIT 125	Pathophysiology and Pharmacology for Health Information Technology	3
HIT 150	Introduction to Health Management Information Systems	3
HIT 175	Health Information Statistics and Research	3
HIT 201*	Advanced ICD Coding	3
HIT 202*	Advanced Classification Systems Applications	3
HIT 210*	Medical Quality Assurance and Supervision	3
HIT 211*	Medicolegal Aspects in Health Information Management	3
HIT 225*	Advanced Health Management Information Systems	3
HIT 290*	Health Information Technology Internship	4.5
Subtotal.		44.5

Required Support Courses - A grade of C or better is required for graduation.

BIO	160IN**	Introduction to Human Anatomy and Physiology	4
CIS	120*	Computer Applications for Business SUN# CIS 1120	4
MAT	106*	Elementary Data Analysis and Spreadsheets.....	3
WRT	101*	English Composition I SUN# ENG 1101	3
Subtotal.			14
Total credits as displayed			64.5

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** BIO 201IH/201IN and BIO 202IN can be substituted for BIO 160IN.

Medical Billing and Coding — Certificate for Direct Employment

Prepare for entry-level employment or advancement within the growing healthcare industry with a focus in medical coding and billing.

What can I do with this certificate?

Career Options: Become a coder, insurance or medical records technician, or professional in a medical facility or health care or insurance agency.

Academic Options: Continue your studies by taking additional courses toward the Health Information Technology degree.

Gainful Employment Information: www.pima.edu/ge-crtmbc

Department/Contact Information:

Dean: 520-206-7134

Lead Faculty: 520-206-7186

Program/Major/Concentration Codes: **CRTOAH/OAM1/OAHB**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
HIT 100	Introduction to Health Information Management	3
HIT 101*	Introduction to ICD Coding	3
HIT 102*	CPT Coding	3
HIT 105	Medical Terminology	3
HIT 108	Health Information Employment Policies	1
HIT 112*	Health Insurance and Medical Billing	3
HIT 125	Pathophysiology and Pharmacology for Health Information Technology	3
HIT 201*	Advanced ICD Coding	3-4.5
or HIT 290*	Health Information Technology Internship	
Subtotal.		22-23.5

Required Support Courses

BIO	160IN**	Introduction to Human Anatomy and Physiology	4
CIS	120	Computer Applications for Business SUN# CIS 1120	4
Subtotal.			8
Total credits as displayed			30-31.5

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** BIO 201IH/201IN and BIO 202IN can be substituted for BIO 160IN.

Honors

Honors Program — Certificate

The Honors Program offers academically excellent students a variety of enrichment opportunities to assist them in attaining their full academic potential.

Before enrolling in this program, students must meet certain requirements:

- A. Incoming freshmen, with less than 12 college credits, must have maintained a GPA of at least 3.5 at an accredited high school, and scored 90 or higher on both the reading and writing portions of the College assessment tests.
OR
- B. Continuing students must have completed at least 12 college credits in courses numbered 100 or higher, with a GPA of 3.5 or better.
- Complete HON 101: Honors Colloquium with a grade of B or better.

Special Admissions Program: You are not fully admitted to this program until you have fulfilled the requirements listed above. See the website or an advisor for details.

Required Courses:

To earn this certificate, students must complete a minimum of 15 credits of Honors coursework with an overall 3.5 GPA.

Course Number	Course Title	Credit Hours
Required Core Course - A grade of B or better is required for graduation.		
HON 101	Honors Colloquium	3
Subtotal.		3

Required Support Courses - A grade of B or better is required for graduation.

Electives - Select a minimum of 12 credits from the following:

HON 210*	College Honors Advisory Council	1
HON 244*	Honors Field Excursions	1-3
HON 296*	Honors Independent Study Project	1-3
WRT 101HC*	English Composition I: Honors	3
WRT 102HC*	English Composition II: Honors	3
Honors Courses in any Prefix **	.....	3-12
Honors Contracts in regular courses ***	.....	3-12
Subtotal.		12
Total credits as displayed		15

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** See the class schedule for current offerings.

*** To start an Honors Contract you must have completed HON 101. Meet with an Honors Coordinator at any campus or contact us at <http://www.pima.edu/programs-courses/honors/honors-contact-us.html>

Hospitality

Learn basic principles of culinary arts and hotel/restaurant management.

Culinary Arts

Set your culinary career in motion and prepare to work in hotels, restaurants, and resorts.

Culinary Arts — Associate of Applied Science Degree for Direct Employment

Courses focus on culinary management, budgeting, and hands-on food preparation.

Before enrolling in this program, you must interview with a Culinary Arts faculty member or the Program Coordinator.

What can I do with this degree?

Career Options: Become a cook, menu planner, caterer, dining room manager or work in other culinary positions.

Academic Options: This program may apply toward a Bachelor of Applied Science (BAS). See an advisor.

Department/Contact Information:

Dean: 520-206-7694

Director, Hospitality: 520-206-5242

Program Coordinator: 520-206-5302

Conditional Program/Major Codes: **AASCULNRYART/9RCF**

Conditional Enrollment Program: You will be eligible to enroll in CUL courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or an advisor for more information.

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	3
Recommend: WRT 101 or WRT 154	
Arts and Humanities Requirement	3
Recommend: ART 105, HIS 102, or HUM 260	
Social and Behavioral Sciences Requirement	3
Recommend: ANT 102, ANT 112, or GEO 103 fulfills this requirement.	
Mathematics or Science Requirement	3-4
Recommend: BIO/FSN 127IN or BUS 151	
NOTE: The Math Competency must be met	
Other Requirement	3
Recommend: CMN 102, CMN 120, FRE 101, or SPA 101	
Special Requirement	
Recommend: ANT 102, 112, ART 105, GEO 103, HIS 102 or HUM 260	
Subtotal.	.15-16*

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

CUL 101*	Principles of Restaurant Operations	3
CUL 105*	Food Service Nutrition and Sanitation	3
CUL 130*	Savory Cuisine	3
CUL 140*	Culinary Principles	3
CUL 150*	Garde Manger	3
CUL 160*	Pastry Arts I	3
CUL 163*	Sauces	3
CUL 170*	Dining Room Operations	2

CUL 174*	From Garden to Table.....	3
CUL 180*	Food in History	3
CUL 251*	International Cuisine: World of Flavor	3
CUL 256*	Special Diets	3
CUL 289*	Culinary Arts Capstone II.	1
Subtotal.		36

Required Support Courses - A grade of C or better is required for graduation.

CSA 100	Computer Literacy**	1
STU 100	College Success and Career Planning.....	1

Electives	Complete 5-7 credits from the following so the total credits of the degree is at least 60.	5-7
ACC 100	Practical Accounting Procedures	
BUS 100	Introduction to Business	
BUS 148	Ethics in the Workplace	
CUL 153*	Cakes	
CUL 156*	Pies	
CUL 162*	The Art of Chocolate	
CUL 168*	Specialty and Hearth Breads	
CUL 185*	Catering Operations	
CUL 199WK	Co-op Work: Culinary Arts	
CUL 230*	Hot Foods II	
CUL 260*	Bakery and Pastry Production II	
FSN 154	Nutrition	
HRM 110*	Food Service Systems Management	
HRM 111*	Commercial Food	
HRM 140*	Introduction to Bar and Beverage Management	
MGT 110	Human Relations in Business and Industry	
MKT 111	Principles of Marketing	
Subtotal.		7-9
Total Credits as Displayed		60

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** CSA/CIS 104 may be substituted for CSA 100.

‡ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

Culinary Fundamentals - Certificate for Direct Employment

Courses focus on the basics of cold foods, hot foods, baking, nutrition, and safety and sanitation.

Before you can enroll, you must interview with a Culinary Arts faculty member or the Program Coordinator.

What can I do with this certificate?

Career Options: Gain entry-level employment in such positions as a food preparation worker, short order cook, station cook, cook's helper, or assistant baker.

Academic Options: Continue your studies by completing the advanced certificate program or Associate of Applied Science degree.

Gainful Employment Information: www.pima.edu/ge-crtcuf

Department/Contact Information:

Dean: 520-206-7694

Lead Faculty: 520-206-5043

Program Coordinator: 520-206-5302

Conditional Program/Major Codes: **CRTCUF/9CUF**

Conditional Enrollment Program: You will be eligible to enroll in CUL courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
CUL 105*	Food Service Nutrition and Sanitation	3
CUL 130*	Savory Cuisine	3
CUL 140*	Culinary Principles	3
CUL 150*	Garde Manger	3
CUL 160*	Pastry Arts I	3
CUL 189*	Culinary Arts Capstone I	1
Total credits as displayed		16

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Culinary Arts — Advanced Certificate for Direct Employment

Courses focus on cold foods, hot foods, baking, nutrition, safety and sanitation, and general restaurant operations.

Before enrolling in this program, you must interview with a Culinary Arts faculty member or the Program Coordinator.

What can I do with this certificate?

Career Options: Gain entry-level employment as a cook, menu planner, dining room manager or other culinary positions.

Academic Options: Continue your studies by completing the Associate of Applied Science degree.

Gainful Employment Information: www.pima.edu/ge-crtculnryart

Department/Contact Information:

Dean: 520-206-7694

Lead Faculty: 520-206-5164

Program Coordinator: 520-206-5302

Conditional Program/Major Codes: **CRTCULNRYART/9RCC**

Conditional Enrollment Program: You will be eligible to enroll in CUL courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
CUL 101	Principles of Restaurant Operations	3
CUL 105*	Food Service Nutrition and Sanitation	3
CUL 130*	Savory Cuisine	3
CUL 140*	Culinary Principles	3
CUL 150*	Garde Manger	3
CUL 160*	Pastry Arts I	3
CUL 163*	Sauces	3
CUL 170	Dining Room Operations	2
CUL 174*	From Garden to Table.....	3
CUL 180	Food in History	3
CUL 189*	Culinary Arts Capstone I	1
Subtotal.		30
Required Support Courses - A grade of C or better is required for graduation.		
CSA 100*	Computer Literacy.....	1
Subtotal.		1
Total credits as displayed		31

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Baking and Pastry Arts - Certificate for Direct Employment

Learn the fundamentals of the baking and pastry arts industry and prepare for entry-level positions in commercial bake shops or pastry kitchens. Courses include Sanitation & Safety, Pastry Arts I, Pastry Arts II, and Artisan/Specialty Breads. Upon completion, students should qualify for employment as a pastry cook, baker's assistant or assistant pastry chef in food production settings.

Before you can enroll, you must interview with a Culinary Arts faculty member or the Program Coordinator.

What can I do with this certificate?

Career Options: Become a pastry cook, baker's assistant, or assistant pastry chef (or other various positions).

Academic Options: Continue your studies by completing the Associate of Applied Science degree. See Pima's Transfer Partnerships page to determine which universities offer BAS programs that may be relevant and research how the universities may accept this program in transfer.

Gainful Employment Information: www.pima.edu/ge-crtbkg

Gainful Employment Information: www.pima.edu/ge-crtbkg

Department/Contact Information:

Dean: 206-7694 (East Campus);

Academic Director: 206-5242

Program Coordinator: 206-5302

Conditional Program/Major Codes: **CRTBKG/9BKG**

Conditional Enrollment Program: You will be eligible to enroll in CUL courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

NOTE: Financial Aid Eligibility for this program is pending review by the Department of Education at the time the catalog was published. See the online program display for current information.

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
CUL 105 *	Food Service Nutrition and Sanitation	3
CUL 140 *	Culinary Principles	3
CUL 160 *	Pastry Arts I	3
CUL 162 *	Art of Chocolate	3
CUL 168 *	Specialty and Hearth Breads	3
CUL 244 *	Confections, Show Pieces and Plated Desserts	3
CUL 260 *	Pastry Arts II	3
CUL 266 *	Ice Creams, Bavarians, Mousse and Sauces	3
CUL 276 *	Pastry Production	3
STU 100	College Study Skills	1
Total credits as displayed		28

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Hotel and Restaurant Management — Certificate for Direct Employment

Work in the resort/hotel or restaurant industry while completing an entry-level, career-track certificate that provides an introduction to hotel/restaurant management. Earn credit for co-op work experience.

What can I do with this degree?

Career Options: Entry-level employment in hotel or restaurant management

Academic Options: Courses can apply toward the Associate of Arts in Liberal Arts, Hotel and Restaurant Management concentration, or to the HRM baccalaureate degree at Northern Arizona University. This program does not transfer to Arizona State University or The University of Arizona.

Gainful Employment Information: www.pima.edu/ge-crthrm

Department/Contact Information:
Dean: 520-206-7694
Lead Faculty: 520-206-2176
Program/Major Codes: **CRTHRM/HRC**

Course Number	Course Title	Credit Hours
Required Core Course - A grade of C or better is required for graduation.		
CSA 110	Spreadsheets: Microsoft Excel	3
HRM 100	Introduction to Hospitality Industry	3
HRM 104	Hotel Food and Beverage Management	3
HRM 199/199WK*	Introductory Co-op/Introductory Co-op Work: Hotel and Restaurant Management	3
Hospitality Electives	.....	9
Complete three courses from the list below:		
HRM 101	Front Office Procedures	
HRM 110	Food Service Systems Management	
HRM 111*	Commercial Food	
HRM 150	Hospitality Property Management	
HRM 210*	Managing Customer Service for the Hospitality Industry	
Total credits as displayed		21

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

AA in Liberal Arts - Hotel and Restaurant Management Concentration

See the Liberal Arts section for details on the degree requirements.

Human Resources

Human Resources — Certificate for Direct Employment

Learn the principles and practices associated with a career in Human Resources.

What can I do with this certificate?

Career Options: Move into basic human relations functions with a current employer. Find employment in human relations tasks.

Academic Options: Expand your business knowledge through other business programs.

Gainful Employment Information: www.pima.edu/ge-crthumanres

Department/Contact Information:

Dean: 520-206-7694

Lead Faculty: 520-206-7216

Program/Major codes: **CRTHUMANRES/HRS**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
HRS 101	Introduction to Human Resources Management	3
HRS 102	Human Resource Law	3
HRS 103	Benefits and Compensation	3
HRS 104	Job Requirements, Recruitment, and Personnel Selection	3
HRS 105	Training and Development	3
HRS 106	Labor Relations	3
STU 100	College Success and Career Planning	1
Total credits as displayed		19

Justice Professions

Law Enforcement Academy — Certificate for Direct Employment

Learn the skills needed to begin a career in law enforcement while preparing for the licensure examination. Completion of the program exceeds the minimum P.O.S.T. requirements for entry-level employment as an Arizona peace officer.

Before enrolling in this program you must meet certain requirements:

- High school diploma or GED
- At least 21 years of age upon completion of the academy
- No felony convictions
- U.S. Citizen
- Must possess a valid driver's license
- Physical requirement test
- Written evaluation
- Psychological evaluation
- Oral Board review
- Background investigation
- No history of AZPOST or agency disqualifiers identified in the background investigation reviewed by skills-matter experts.
- Medical evaluation
- Polygraph exam
- Other requirements that are specific to Arizona Peace Officer Standards and Training Board (Az P.O.S.T.)
<https://post.az.gov/>

What can I do with this certificate?

Career Options: After passing the licensure examination, seek entry-level employment as an Arizona police officer.

Academic Options: Continue your studies by working toward an Associate's degree in Law Enforcement.

Gainful Employment Information: www.pima.edu/ge-crtlwy

Department/Contact Information:

Program Manager: 520-206-3540

Conditional Program/Major Codes: **CRTLWY/9LWY**

Conditional Enrollment Program: You will be eligible to enroll in LEA courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
LEA 110	Law Enforcement Academy Part I	29
LEA 210*	Law Enforcement Academy Part II	16
Subtotal.		.45
Total credits as displayed		.45

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Justice Professions — Associate of Applied Science Degree for Direct Employment

This two-year degree covers a broad range of knowledge and professional skills in criminal law, corrections, and the American justice system.

What can I do with this degree?

Career Options: Find entry-level employment or promotion in corrections or criminal justice.

Academic Options: This program may apply toward a Bachelor of Applied Science (BAS). See an advisor.

Department/Contact Information:

Dean: 520-206-7694

Lead Faculty: 520-206-7477

Program/Major/Concentration Codes: **AASJUS/JUS/****** (see concentration codes below)

The Law Enforcement Concentration is a Conditional Enrollment Program: You will be eligible to enroll in LEA courses once you have completed the Law Enforcement Certificate and the Department has authorized your enrollment. See the program director or advisor for more information.

General Education Requirements - A grade of C or better is required for graduation

Course lists for each General Education category listed below can be found starting on page 49.

Communication	†
WRT 101 or 154 fulfills this requirement.	
Arts and Humanities	3
Recommend: ART 110 or MUS 160	
Social and Behavioral Sciences	3
Recommend: AJS 225	
Mathematics and Science	3
Recommend: MAT 142 or higher, BUS 151, BIO 160IN, or CHM 130IN	
Other Requirements	3
Recommend: CMN 120, JRN 102, POS 201 or 210	
AGEC Special Requirements	
Recommend: CMN 120, JRN 102, or POS 201	
Subtotal.	12

Course Number	Course Title	Credit Hours
Required Support Courses		
WRT 101 or WRT 154	English Composition I SUN# ENG1101 Career Communications	3
STU 100	College Success and Career Planning.	1
Subtotal.		4

Concentration - A grade of C or better is required for graduation.

Complete one of the following concentrations: 44-45

Administration of Justice (Concentration Code: JUSD)

AJS 101	Introduction to Administration of Justice Systems SUN# AJS 1101	3
AJS 109	Criminal Law	3
AJS 113	Criminal Justice Crime Control Policies and Practices.	3
AJS 115*	Criminal Procedures	3
AJS 123	Corrections as a Process	3
AJS 124	Ethics and the Administration of Justice	3
AJS 201*	Rules of Evidence.	3
AJS 204*	Criminal Investigation	3
AJS 205*	Forensic Pathology and Death Investigation.	3
AJS 212	Juvenile Justice Procedures	3
AJS 260*	Criminal Justice Management	3
AJS 265	Issues in the Administration of Justice (Capstone)	1

Electives:

Complete four courses from the following: 12-14

AJS 225	Criminology	
AJS 280	Terrorism in the 21st Century	
AJS 290*	Administration of Justice Studies Internship	
PSY 101	Introduction to Psychology SUN# PSY1101	
SPA 101	Elementary Spanish SUN# SPA1101	
SPA 102	Elementary Spanish SUN# SPA1101	
Subtotal.		46-48

Law Enforcement (AZ Post) (Conditional Program/Major/Concentration Codes: AASJUS/9JUS/JUSE)		
LEA 110	Law Enforcement Academy Part I	29
LEA 210*	Law Enforcement Academy Part II (Capstone)	16
Subtotal.		.45
Total credits as displayed		.61-64

† Core or support course(s) fulfill this requirement.

‡ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

AA in Liberal Arts - Administration of Justice Concentration

See the Liberal Arts section for details on the degree requirements.

Liberal Arts - Associate of Arts Degree for Transfer

Complete the first two years of a bachelor's degree for many majors. For most of the concentrations below, Pima requirements are aligned most closely with those at the University of Arizona. Substitutions are available for students planning to transfer to other schools. See an advisor.

Concentrations available:

General
Administration of Justice
American Sign Language and Interpretation Studies
Anthropology
Biology
Communication
Early Childhood Education
Elementary Education
English
Ethnic, Gender and Transborder Studies
Fashion Design
History
Political Science
Psychology
Social Services
Sociology
Translation and Interpretation Studies

Program/Major /Concentration Codes: **AOAALA/ALA1/****** (see concentration codes below)

Liberal Arts – General Concentration

Complete this concentration if you are unsure which Bachelor of Arts degree you plan to pursue, or if your major is not included in the other concentrations offered.

What can I do with this concentration?

Academic Options: Transfer to a university to complete a Bachelor of Arts degree.

Contact Information: Contact any campus Student Services office: www.pima.edu/mhtml/email/advising.

Concentration Codes: **ALAG**

Arizona General Education Curriculum Requirements (AGEC-A) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts	6
Biological and Physical Sciences	8
Mathematics	3
Social and Behavioral Sciences	6
Other Requirements	†
Second Language courses fulfill this requirement	
Special Requirements	
Second Language course numbered 202 fulfills the G requirements (or the C requirement if the language is ASL). The I and either the C or G requirement should be fulfilled by selecting appropriate courses in the above categories.	
Subtotal.	29

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

Transfer Electives	12-16
Complete 12-16 credits of transferable electives so the total credits for the degree are 60-64.	
Subtotal.	12-16

Required Support Courses - A grade of C or better is required for graduation.

STU 100	College Success and Career Planning.....	1
or STU 107	University Transfer Preparation and College Success	
STU 210	Transfer Strategies.....	2
Second Language*	.....	16
Completion of a Language course numbered 202*, fourth semester level.		
Subtotal.	.....	19
Total credits as displayed	.....	60-64

† Core or support course(s) fulfill this requirement.

¥ The AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

* See an advisor or counselor if:

- you are a bilingual student to discuss exceptions to this requirement or
- if you are considering taking the CLEP test to earn language credits or
- if the university major does not require a second language, this requirement may be waived

If this requirement is met in fewer than 16 credits, or if the language requirement is waived, additional transferable electives are necessary to meet the minimum Associate degree requirement of 60 credit hours.

Liberal Arts – Administration of Justice Studies Concentration

Prepare for advanced studies in the criminal justice system.

What can I do with this concentration?

Academic Options: This program has been designed to match as closely as possible the first two years of a Criminal Justice or Justice Studies degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-7694

Lead Faculty: 520-206-7477

Concentration Code: **ALAJ**

Arizona General Education Curriculum (AGEC-A) Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts.....	3
ANT 112 or HIS 161 fulfill 3 credits of this requirement. Complete a course from the Arts list	
Recommend: ART 110 or MUS 160	
Biological and Physical Sciences	8
Recommend: Two courses from BIO 160IN, CHM 121IN, CHM 130IN	
Mathematics.....	3
Recommend: MAT 142	
Social and Behavioral Sciences	3
AJS 225 fulfills 3 credits of this requirement. Complete a non-AJS course.	
Recommend: POS 201 or 210	
Other Requirements [†]	6-8
Recommend: ASL 101 and 102; or SPA 101 and 102; or two from CMN 120, JRN 102, HUM 260, or THE 105	
AGEC Special Requirements	
ANT 112 or HIS 161 fulfills this requirement	
Subtotal	29-31¥

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

AJS 101	Introduction to Administration of Justice Systems SUN# AJS 1101	3
AJS 109	Criminal Law	3
AJS 115*	Criminal Procedures	3
AJS 124	Ethics and the Administration of Justice	3
AJS 204*	Criminal Investigation	3
AJS 225	Criminology.....	3

AJS 265	Issues in the Administration of Justice	1
Subtotal.		19

Required Support Courses

ANT 112	Exploring Non-Western Cultures	3
or HIS 161	Modern Latin America	
STU 100	College Success and Career Planning	1
Transfer Electives:		9
Recommend: three courses from the following: AJS 113, 123, 201, 205, 212, 260, 290		
Subtotal.		13
Total credits as displayed		61-63

† Core or support course(s) fulfill this requirement.

¥ AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Students transferring to the UA should complete ASL 101 & 102, or SPA 101 & 102; students transferring to NAU should complete PSY 101, and either HUM 260 or THE 105; students transferring to ASU or another school should choose the appropriate course depending on the transfer major requirements.

Liberal Arts – American Sign Language (ASL) and Interpreter Studies Concentration

Learn pre-interpreting skills such as cognitive processing and translation. This program includes lecture and laboratory skills. Students will develop the intralingual skills needed to analyze discourse in English and American Sign Language (ASL).

What can I do with this concentration?

Academic options: This program has been designed to match as closely as possible the first two years of a Special Education & Rehabilitation - Deaf Studies emphasis degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan. Some required courses may not transfer to other universities.

Department/Contact Information:

Dean: 520-206-7134

Lead Faculty: 520-206-6094

Video Relay Service/Video Phone: 520-445-8338

Concentration Codes: **ASLI**

Arizona General Education Curriculum Requirements (AGEC-A) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts	6
Recommend: ANT 112 and THE 105	
Biological and Physical Sciences	8
Recommend: CHM 121IN for one of the courses	
Mathematics	3
Social and Behavioral Sciences	6
Recommend: PSY 132 and SOC 201	
Other Requirements	†
ASL 101 & 102 fulfill this requirement	
Special Requirements	
ASL 201 fulfills the C requirements. The I and G requirement should be fulfilled by selecting appropriate courses in the above categories.	
Subtotal.	29¥

Course Number	Course Title	Credit Hours
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Required Core Courses – A grade of C or better is required for graduation.

ASL 101	American Sign Language I	4
ASL 102*	American Sign Language II	4
ASL 200*	Introduction to the Deaf Community	3
ASL 201	American Sign Language III	4
ASL 202	American Sign Language IV	4
ASL 203*	Comparative Analysis of ASL and English	3

ASL 215*	ASL Literature: Narratives	3
ITP 201*	Ethics and Social Justice of Interpreting	3
ITP 211*	Fundamentals of Interpreting I.....	3
ITP 212*	Fundamentals of Interpreting II	3
Subtotal.		34
Total credits as displayed		63

† Core or support course(s) fulfill this requirement.

¥ The AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Liberal Arts – Anthropology Concentration

Learn about human biological and cultural differences, including human biology and origins, linguistics and world cultures both past and present.

What can I do with this concentration?

Academic Options: This program has been designed to match as closely as possible the first two years of a anthropology or archeology degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-7666

Lead Faculty: 520-206-6905

Concentration Codes: **ALAA**

Arizona General Education Curriculum Requirements (AGEC-A) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts.....	6
Biological and Physical Sciences	8
Recommend: GLG 101IN and either GLG 102IN or BIO 109IN for students who plan to specialize in Archaeology	
Mathematics.....	3
Social and Behavioral Sciences	3
ANT/ARC 101 or 102 fulfills 3 credits of this requirement. Complete a non-ANT/ARC course from this category.	
Other Requirements	†
ANT 210 and Second Language fulfill this requirement	
Special Requirements	
ANT 210 fulfills the I and G requirement. The C requirement should be fulfilled by completing an appropriate course in the above categories.	
Subtotal.	26¥

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
ANT/ARC 101 or ANT 102	Human Origins and Prehistory	3
ANT/ARC 204IN	Introduction to Cultural Anthropology and Linguistics	4
ANT 210	Human Evolution: Ape Men, Cave Women and Missing Links	3
ANT 215	Cultural Anthropology	3
ANT/ARC 225	The Nature of Language	3
	Principles of Archaeology	3
Subtotal.		16

Required Support Courses - A grade of C or better is required for graduation.

STU 100 or STU 107	College Success and Career Planning.....	1
	University Transfer Preparation and Career Planning	
Transfer Electives		3
Complete 3 credits of transferable electives		
Recommend: ANT/ARC 101, ANT 102, ARC 275 or ANT elective in consultation with an Anthropology faculty Advisor		

Second Language*	16
Completion of a Language course numbered 202*, fourth semester level.	
Subtotal.	.20
Total credits as displayed	.62

† Core or support course(s) fulfill this requirement.

¥ AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

* See an advisor or counselor if:

- you are a bilingual student to discuss exceptions to this requirement or
- if you are considering taking the CLEP test to earn language credits or
- if the university major does not require a second language, this requirement may be waived

If this requirement is met in fewer than 16 credits, or if the language requirement is waived, additional transferable electives are necessary to meet the minimum associate degree requirement of 60 credit hours.

Liberal Arts – Communication Concentration

Learn about best practices for communicating effectively across multimodal channels and settings; develop global, historical and cultural awareness of the major principles of communication; develop cultural diversity consciousness and communication competence in interactions with culturally dissimilar people.

What can I do with this concentration?

Academic Options: This program has been designed to match as closely as possible the first two years of a communications degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-7666

Lead Faculty: 520-206-6830

Concentration Code: **ALAC**

Arizona General Education Curriculum Requirements (AGEC-A) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts	6
Biological and Physical Sciences	8
Recommend: PSY 101 and either BIO 108IN, BIO/FSN 127IN, CHM 121IN or GLG 102IN	
Mathematics	†
Recommend: MAT 142 or MAT 151	
Social and Behavioral Sciences	6
Recommend: PSY 101 and either POS 202 or SOC 101	
Other Requirements	†
CMN 102 and 110 fulfill this requirement.	
Special Requirements	
Recommend: HUM 253 or LIT 261	
Subtotal.	.26¥

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
CMN 102	Introduction to Communication SUN# COM1100	3
CMN 110	Public Speaking	3
CMN 130	Small Group Discussion	3
or CMN 140	Interpersonal Communication	
CMN 200	Intercultural Communication	3
CMN 228	Research Methods in Communication	3
Subtotal.		15

Required Core Support:

MAT 142 or 151 or higher MAT	Topics in College Mathematics College Algebra SUN# MAT1151	3-4
MAT 167* or PSY 230	Introductory Statistics SUN# MAT1160 Psychological Measurements and Statistics	3
STU 100	College Success and Career Planning.....	1
Second Language Requirement**	Completion of a language course numbered 202, fourth semester level.	16
Subtotal.		.23-24
Total credits as displayed		63-64

† Core or support course(s) fulfill this requirement.

¥ The AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** See an advisor or counselor if:

- you are a bilingual student to discuss exceptions to this requirement or
- if you are considering taking the CLEP test to earn language credits or
- if the university major does not require a second language, this requirement may be waived

If this requirement is met in fewer than 16 credits, or if the language requirement is waived, additional transferable electives are necessary to meet the minimum associate degree requirement of 60 credit hours.

Liberal Arts – Early Childhood Education Concentration

Learn to teach young children effectively while preparing to transfer to a bachelor's degree program with birth-3rd grade teaching certification.

What can I do with this concentration?

Academic Options: This program has been designed to match as closely as possible the first two years of an early childhood teaching certification degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-5105

Center for Early Childhood Studies: 520-206-5245

Lead Faculty: 520-206-5107

Concentration Code: **ALAE**

General Education Requirements A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts.	3
HIS 141 or HIS 142 fulfill 3 credits of this requirement. Complete a course from the Fine Arts list.	
Recommend: ART 105	
Biological and Physical Sciences	†
The Biology and a Physical Science courses fulfill this requirement	
Recommend: BIO 105IN and either AST 101IN, CHM 130IN, GEO 101IN, GEO 102IN GLG 101IN or PHY 121IN	
Mathematics.....	3
Recommend: MAT 142	
Social and Behavioral Sciences	3
POS 210 fulfills 3 credits of this requirement. Complete another course from this category.	
Recommend: ANT 112, ANT/HIS 127, or HUM 260	
Other Requirements	†
The Second Language courses fulfill this requirement.	
Special Requirements	
Recommend: ANT 112, ANT 127, or HUM 260 to fulfill the I and C requirement; ART 105 to fulfill the G requirement.	
Subtotal.	15¥

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
ECE 117	Child Growth and Development	3
ECE 226*	Positive Child Guidance.....	3
Subtotal.		6
Required Support Courses - A grade of C or better is required for graduation.		
HIS 141 or HIS 142	History of the United States I SUN# HIS 1131	3
	History of the United States II SUN# HIS 1132	3
MAT 146*	Mathematics for Elementary Teachers I	3
MAT 147*	Mathematics for Elementary Teachers II	3
POS 210	National and State Constitutions	3
STU 100	College Success and Career Planning.....	1
or STU 107	University Transfer Preparation and Career Planning	
STU 210	Transfer Strategies.....	2
AGEC Biological Science (recommend: BIO 105IN)		4
AGEC Physical Science (recommend: AST 101IN, CHM 130IN, GEO 101IN, GLG 101IN, or PHY 121IN)		4
Second Language Requirement**		16
Completion of a Language course numbered 202*, fourth semester level.		
Subtotal.		39
Total credits as displayed		60

† Core or support course(s) fulfill this requirement.

¥ The AGECE requires 35 credits. This subtotal shows the AGECE credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** See an advisor or counselor if:

- you are a bilingual student to discuss exceptions to this requirement or
- if you are considering taking the CLEP test to earn language credits or
- if the university major does not require a second language, this requirement may be waived

If this requirement is met in fewer than 16 credits, or if the language requirement is waived, additional transferable electives are necessary to meet the minimum associate degree requirement of 60 credit hours.

Liberal Arts – Elementary Education Concentration

Complete the first two years of an elementary education degree and transfer to a four-year degree program.

What can I do with this concentration?

Academic Options: This program has been designed to match as closely as possible the first two years of an elementary education certification degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.. Students interested in secondary education, rehabilitation or special education should pursue the general Associate of Arts degree.

Department/Contact Information:

Dean: 520-206-5105

Lead Faculty: 520-206-5107

Concentration Codes: **ALAD**

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts.....	3
HIS 141 or HIS 142 fulfill 3 credits of this requirement. Complete a course from the Fine Arts list.	
Recommend: ART 105	
Biological and Physical Sciences	†
The Biology and a Physical Science courses fulfill this requirement	
Recommend: BIO 105IN and either AST 101IN, CHM 130IN, GEO 101IN, GEO 102IN GLG 101IN or PHY 121IN	
Mathematics.....	3
Recommend: MAT 142	

Social and Behavioral Sciences	3
POS 210 fulfills 3 credits of this requirement. Complete another course from this category. Recommend: ANT 112, ANT/HIS 127, or HUM 260	
Other Requirements	†
The Second Language courses fulfill this requirement.	
Special Requirements	
Recommend: ANT 112, ANT 127, or HUM 260 to fulfill the I and C requirement; ART 105 to fulfill the G requirement.	
Subtotal.	15¥

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
EDU 200	Introduction to Education	3
EDU 206	Relationships in Classroom Settings	3
Subtotal.		6
Required Support Courses - A grade of C or better is required for graduation.		
HIS 141	History of the United States I SUN# HIS 1131	3
or HIS 142	History of the United States II SUN# HIS 1132	
MAT 146*	Mathematics for Elementary Teachers I	3
MAT 147*	Mathematics for Elementary Teachers II	3
POS 210	National and State Constitution	
STU 100	College Success and Career Planning.	1
or STU 107*	University Transfer Preparation and Career Planning	
STU 210	Transfer Strategies	2
AGEC Biological Science (recommend: BIO 105IN)		4
AGEC Physical Science (recommend: AST 101IN, CHM 130IN, GEO 101IN, GLG 101IN, or PHY 121IN)		4
Second Language Requirement**		16
Completion of a Language course numbered 202*, fourth semester level.		
Subtotal.		39
Total credits as displayed		60

† Core or support course(s) fulfill this requirement.

¥ The AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** See an advisor or counselor if:

- you are a bilingual student to discuss exceptions to this requirement or
- if you are considering taking the CLEP test to earn language credits or
- if the university major does not require a second language, this requirement may be waived

If this requirement is met in fewer than 16 credits, or if the language requirement is waived, additional transferable electives are necessary to meet the minimum associate degree requirement of 60 credit hours.

Liberal Arts – English Concentration

Prepare for a career in professional and technical writing, editing, communications, education, law, advertising, or business management/leadership.

What can I do with this concentration?

Academic Options: This program has been designed to match as closely as possible the first two years of a creative writing or English degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-7666

Lead Faculty: 520-206-6905

Concentration Code: **ALAN**

Arizona General Education Curriculum Requirements (AGEC-A) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts.	3
WRT 205 fulfills 3 credits of this requirement. Complete a course from the Humanities list.	
Recommend: HUM 251, 252, 253, 260, LIT 224, 225 or PHI 101	
Biological and Physical Sciences	8
Mathematics.....	3
Social and Behavioral Sciences	6
Other Requirements	†
Second Language courses fulfill this requirement	
Special Requirements	
LIT 280 fulfills this requirement.	
Subtotal.	26

Required Core Courses - A grade of C or better is required for graduation.

LIT 280*	Introduction to Literature	
WRT 205*	Introduction to Poetry Writing	3
WRT 206*	Short Story Writing	3
Select two courses from:		6
LIT 231, 261/261HC, 265, 289/289HC, WRT 162, 207		
Subtotal.		15

Required Core Support:

STU 100	College Success and Career Planning.....	1
STU 210	Transfer Strategies.....	2
Second Language**		16
Completion of a Language course numbered 202, 4th semester level		
Subtotal.		19
Total credits as displayed		60

† Core or support course(s) fulfill this requirement.

¥ The AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** See an advisor or counselor if:

- you are a bilingual student to discuss exceptions to this requirement or
- if you are considering taking the CLEP test to earn language credits or
- if the university major does not require a second language, this requirement may be waived

If this requirement is met in fewer than 16 credits, or if the language requirement is waived, additional transferable electives are necessary to meet the minimum associate degree requirement of 60 credit hours.

Liberal Arts – Ethnic, Gender, and Transborder Studies Concentration

The Ethnic, Gender, and Transborder Studies (EGTS) Concentration offers an interdisciplinary study of the histories, cultures, socio-economic concerns, politics, and identities of people of color and people of multiple genders and sexualities on their own terms. This concentration offers courses in American Indian Studies, Gender and Women's Studies (including LGBTQ), Global Studies, and Mexican American Studies.

What can I do with this concentration?

Academic Options: This program has been designed to match as closely as possible the first two years of an Ethnic; Gender and Women's Studies; or other related social sciences degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-7666

or contact any campus Student Services office: www.pima.edu/mhtml/email/advising

Concentration Code: **EGTS**

Arizona General Education Curriculum Requirements (AGEC-A) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts	6
Biological and Physical Sciences	8
Mathematics	3
Social and Behavioral Sciences	6
Other Requirements	†
Second Language courses fulfill this requirement	
Special Requirements	
Second Language course numbered 202 fulfills the G requirements (or the C requirement if the language is ASL). The I and either the C or G requirement should be fulfilled by selecting appropriate courses in the above categories.	
Subtotal.	29¥

Course Number	Course Title	Credit Hours
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Required Core Courses – A grade of C or better is required for graduation.**Select 5 transferable courses from the following prefixes:**

AIS**, GLS**, GWS**, MAS**	15
Subtotal.	15

Required Support Courses-A grade of C or better is required for graduation.**First Year Experience (Select one additional course from the list below)**

STU 100	College Success and Career Planning	1
or STU 106	Choosing a Major and College Success	
or STU 107	University Transfer Preparation and College Success	
STU 210	Transfer Strategies	2
Second Language Requirement***		16
Completion of a Language course numbered 202, fourth semester level.		
Subtotal.		19
Total Credits as displayed		60

† Core or support course(s) fulfill this requirement.

¥ The AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

** Courses cross listed with AIS, GLS, GWS, and MAS prefixes may also be applied to meet required core coursework.

*** See an advisor or counselor if:

- you are a bilingual student to discuss exceptions to this requirement or
- if you are considering taking the CLEP test to earn language credits or
- if the university major does not require a second language, this requirement may be waived

If this requirement is met in fewer than 16 credits, or if the language requirement is waived, additional transferable electives are necessary to meet the minimum associate degree requirement of 60 credit hours.

NOTE: Some core courses may also fulfill AGEC category requirements. If you complete a core course which "double-dips" to also meet general education requirements, you will need to complete additional transfer courses to meet the minimum 60 credits required for an associate's degree.

Liberal Arts – Fashion Design Concentration

What can I do with this concentration?

Academic Options: This program has been designed to match as closely as possible the first two years of a fashion degree at Arizona State University. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-6690

Lead Faculty: 520-206-3028

Program/Major Codes: **ALAF**

Arizona General Education Curriculum Requirements (AGEC-A) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts.....	6
Recommend: ART 110** and 131**	
Biological and Physical Sciences	8
Mathematics.....	3
Recommend: MAT 142	
Social and Behavioral Sciences	6
Other Requirements	6
Special Requirements	
Recommend: ART 131 to fulfill the I and G requirement. The C requirement should be fulfilled by selecting appropriate courses in the above categories.	
Subtotal.	35¥

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
FDC 110	Clothing Construction I	3
FDC 111*	Clothing Construction II	3
FDC 123*	Computer Patternmaking I.....	3
FDC 126	Textiles.	3
FDC 132	Global Fashion and Culture	3
FDC 141	Introduction to Fashion Design	3
FDC 144*	Fashion Drawing	3
FDC 245*	Digital Fashion Design.....	3
Subtotal.		24

Required Support Courses

STU 100	College Success and Career Planning.....	1
Transfer Elective		3
Recommend: FDC 211		
Subtotal.		4
Total credits as displayed		63

† Core or support course(s) fulfill this requirement.

¥ The AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core, support, or second language courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** These courses should be completed for students transferring to ASU.

Liberal Arts – History Concentration

Study the origins and development of society by taking courses that focus on the history of regions, countries and peoples from prehistoric times to the present.

What can I do with this concentration?

Academic options: This program has been designed to match as closely as possible the first two years of a history degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan. All courses in Pima's concentration are not required at transfer universities, but provide a good lower division preparation for history majors.

Department/Contact Information:

Dean: 520-206-7666

or contact any campus Student Services office: www.pima.edu/mhtml/email/advising

Concentration Code: **ALAH**

Arizona General Education Curriculum Requirements (AGEC-A) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 55.

English Composition	6
Humanities and Fine Arts.....	3
HIS 101 fulfills 3 credits in the Humanities category. Complete a course from the Fine Arts list.	
Biological and Physical Sciences	8
Mathematics.....	3
Social and Behavioral Sciences	3
HIS 141 fulfills 3 credits of this requirement. Complete a non-HIS course from this category.	
Other Requirements	†
HIS 102 and 142 fulfill this requirement.	
Special Requirements	
HIS 160 fulfills this requirement.	
Subtotal.	23¥

Course Number	Course Title	Credit Hours
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Required Core Courses – A grade of C or better is required for graduation.

HIS 101	Introduction to Western Civilization I	3
or HIS 101 HC	Introduction to Western Civilization I: Honors	
HIS 102	Introduction to Western Civilization II	3
or HIS 102 HC	Introduction to Western Civilization II: Honors	
HIS 141	United States History I SUN# HIS 1131.....	3
or HIS 141HC	United States History I: Honors	
HIS 142	United States History II SUN# HIS 1132.....	3
HIS 160	Latin America Before Independence	3
Subtotal.		15

Required Support Courses-A grade of C or better is required for graduation.

STU 100	College Success and Career Planning.....	1
or STU 106	Choosing a Major and College Success	
or STU 107	University Transfer Preparation and College Success	
STU 210	Transfer Strategies.....	2
Second Language Requirement*	.....	16
Completion of a language course numbered 202, fourth semester level.		
Transfer Electives	.....	3
Complete 3 transferable credits so that the total degree credits is 60.		
Subtotal.		22
Total credits as displayed		60

† Core or support course(s) fulfill this requirement.

¥ The AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

* See an advisor or counselor if:

- you are a bilingual student to discuss exceptions to this requirement or
- if you are considering taking the CLEP test to earn language credits or
- if the university major does not require a second language, this requirement may be waived

If this requirement is met in fewer than 16 credits, or if the language requirement is waived, additional transferable electives are necessary to meet the minimum associate degree requirement of 60 credit hours.

Hotel and Restaurant Management Concentration

Learn basic principles of hotel and restaurant management while completing lower division required courses for a bachelor's degree in Hotel-Restaurant Management.

What can I do with this concentration?

Academic Options: Complete a bachelor's degree in Hotel and Restaurant Management in Tucson through a partnership with NAU. Completion of required program courses, including AGECA requirements, allows students to waive 12 upper-division liberal studies courses upon transfer to NAU.

Department/Contact Information:

Dean: 520-206-7694

Program Director: 520-206-5242

Concentration Code: **ALAR**

Arizona General Education Curriculum Requirements (AGECA) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts	6
Recommend: ART 105 and either ANT 112, HUM 253, or HUM 260	
Biological and Physical Sciences	8
Recommend: two courses from BIO 100IN, 105IN, 109IN, or BIO/FSN 127IN	
Mathematics	3
Recommend: MAT 142 or 151	
Social and Behavioral Sciences	3
ECN 150 fulfills 3 credits of this requirement. Complete a non-ECN course from this category.	
Recommend: GEO 103, 104, HIS 102, or SOC 101	
Other Requirements	†
Second Language courses fulfill this requirement.	
Special Requirements	
The I, C, and G requirements should be fulfilled by a course in one of the above categories.	
Subtotal.	.26 ¥

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

HRM 100	Introduction to Hospitality Industry	3
HRM 101	Front Office Procedures	3
HRM 110	Food Service Systems Management	3
HRM 111	Commercial Food	3
HRM 150	Hospitality Property Management	3
HRM 289	Hospitality Management Capstone	1
Subtotal.		16

Required Support Courses

ACC 211	Financial Accounting SUN# ACC 2201	3
CIS 120*	Computer Applications for Business SUN# CIS 1120	4
ECN 150	An Economic Perspective	3
STU 100	College Success and Career Planning	1
Second Language Requirement*		8
Completion of two semesters of a language course numbered 101 and 102		
Subtotal.		19
Total credits as displayed		61

† Core or support course(s) fulfill this requirement.

¥ The AGECA requires 35 credits. This subtotal shows the AGECA credits not fulfilled by core or support courses.

* See an advisor or counselor if:

- you are a bilingual student to discuss exceptions to this requirement or
- if you are considering taking the CLEP test to earn language credits or
- if the university major does not require a second language, this requirement may be waived

If this requirement is met in fewer than 16 credits, or if the language requirement is waived, additional transferable electives are necessary to meet the minimum associate degree requirement of 60 credit hours.

Liberal Arts – Political Science Concentration

The political science program is designed to prepare students for transfer to a political science program at a four-year institution. Following

a four-year degree, students may also pursue graduate degrees in law, international business communications, political science, public administration, and management.

What can I do with this concentration?

Academic Options: This program has been designed to match as closely as possible the first two years of a political science degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-7666

or contact any campus Student Services office: www.pima.edu/mhtml/email/advising

Concentration Code: **ALAO**

Arizona General Education Curriculum Requirements (AGEC-A) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts.....	6
Biological and Physical Sciences	8
Mathematics.....	3
Recommend: MAT 142	
Social and Behavioral Sciences	†
POS 201 and ECN 201 fulfill this requirement	
Other Requirements	†
POS 202 and 204 fulfill this requirement.	
Special Requirements	
POS 204 fulfills the C & G requirement. The I requirement must be fulfilled by a course in one of the above categories.	
Subtotal.	.23 ¥

Course Number	Course Title	Credit Hours
---------------	--------------	--------------

Required Core Courses - A grade of C or better is required for graduation.

POS 100	Introduction to Politics	3
POS 201	American National Government and Politics SUN# POS 1110	3
POS 202	Introduction to International Relations SUN# POS 1120.....	3
POS 203	Introduction to Political Ideas	3
POS 204	Introduction to Comparative Politics SUN# POS 2204.....	3
Subtotal.		.15

Required Support Courses

ECN 201	Microeconomics Principles SUN# ECN 2202	3
ECN 202	Macroeconomics Principles SUN# ECN 2201.....	3
STU 100	College Success and Career Planning.....	1
or STU 106	Choosing a Major and College Success	
or STU 107	University Transfer Preparation and College Success	
Second Language Requirement*		16
Completion of a language course numbered 202, fourth-semester level.		
Subtotal.		.23
Total credits as displayed		.61

† Core or support course(s) fulfill this requirement.

¥ The AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

* See an advisor or counselor if:

- you are a bilingual student to discuss exceptions to this requirement or
- if you are considering taking the CLEP test to earn language credits or
- if the university major does not require a second language, this requirement may be waived

If this requirement is met in fewer than 16 credits, or if the language requirement is waived, additional transferable electives are necessary to meet the minimum associate degree requirement of 60 credit hours.

Liberal Arts – Psychology Concentration

What can I do with this concentration?

Academic Options: This program has been designed to match as closely as possible the first two years of a psychology degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Contact Information:

Dean: 520-206-7666

or contact any campus Student Services office: www.pima.edu/mhtml/email/advising.

Concentration Code: **ALAP**

Arizona General Education Curriculum Requirements (AGEC-A) - A grade of C or better is required in all courses for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts.....	6
Biological and Physical Sciences	8
Mathematics.....	3
Recommend: MAT 142 or 188	
Social and Behavioral Sciences	3
PSY 101 fulfills 3 credits of this requirement. Complete a non-PSY course from this category.	
Other Requirements	†
PSY 230 and a Second Language course fulfill this requirement	
AGEC Special Requirements	
The I, C, and G requirements should be fulfilled by completing appropriate courses in the above categories.	
Subtotal.	26¥

Course Number	Course Title	Credit Hours
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Required Core Courses – A grade of C or better is required for graduation.

PSY 101	Introduction to Psychology SUN# PSY 1101	3
PSY 230*	Psychological Measurements and Statistics	3
PSY 289*	Research Methods.....	4
PSY Elective		3
PSY 132*	Psychology and Culture	
or PSY 214*	Abnormal Psychology	
or PSY/SOC 215*	Human Sexuality	
or PSY 216*	Psychology of Gender	
or PSY 218*	Health Psychology	
or PSY 220*	Psychology of Death and Loss	
or PSY 240*	Developmental Psychology	
or PSY 254*	Psychology of Love and Compassion	
or PSY 262*	Positive Psychology	
Subtotal.		13

Required Support Courses - A grade of C or better is required for graduation.

STU 100	College Success and Career Planning.....	1
or STU 106	Choosing a Major and College Success	
or STU 107	University Transfer Preparation and College Success	
Transfer Electives		3-4
Complete 3 or 4 credits of transferable electives so total for the degree is 60 credits.		
Second Language Requirement**		16
Completion of a language course numbered 202, fourth-semester level.		
Subtotal.		20-21
Total credits as displayed		60

† Core or support course(s) fulfill this requirement.

¥ The AGECE requires 35 credits. This subtotal shows the AGECE credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** See an advisor or counselor if:

- you are a bilingual student to discuss exceptions to this requirement or
- if you are considering taking the CLEP test to earn language credits or

• if the university major does not require a second language, this requirement may be waived
 If this requirement is met in fewer than 16 credits, or if the language requirement is waived, additional transferable electives are necessary to meet the minimum associate degree requirement of 60 credit hours.

Liberal Arts – Social Services Concentration

Prepare to transfer to a university to complete a degree in social work.

What can I do with this concentration?

Academic Options: This program has been designed to match as closely as possible the first two years of a social work degree at Arizona State University. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-7666

Lead Faculty: 520-206-6958

Concentration Code: **ALAV**

Arizona General Education Curriculum Requirements (AGEC-A) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts.	3
PHI 101 OR 130 fulfills 3 credits of this requirement. Complete a course from the Art List	
Recommend: ART 105, MUS 151, 160 or THE 105	
Biological and Physical Sciences	4
BIO 156IN or 160IN fulfill 4 credits of this requirement. Complete another course from this category	
Recommend: BIO 105IN, BIO 108IN, BIO 109IN, or GLG 110IN	
Mathematics.....	3
Recommend: MAT 142 or 151	
Social and Behavioral Sciences	†
SSE 110 and either ECN 150 or 202 fulfill this requirement.	
Other Requirements	†
POS 201 and either PSY 101 or SOC 101 fulfill this requirement.	
Special Requirements	
ANT 112 or ANT/HIS/MAS 127 fulfill this requirement	
Subtotal.	16¥

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

SSE 110	Introduction to Social Welfare	3
SSE 111	Group Work	3
SSE 205	Case Report Writing and Documentation.....	3
SSE 210*	Community Organization and Development	3
SSE 281*	Social Service Delivery Systems	3
SSE 285*	Foundations of Social Work Practice	3
SSE Transferable Elective		3
Choose 3 credits from the following: SSE 121, 160, 211, or 242		
Subtotal.		21

Required Support Courses

ANT 112	Exploring Non-Western Cultures	3
or ANT/HIS/MAS 127	History and Culture of the Mexican American in the Southwest	
BIO 156IN*	Introductory Biology for Allied Health	4
or BIO 160IN	Introduction to Human Anatomy and Physiology	
ECN 150*	An Economic Perspective	3
or ECN 202*	Macroeconomic Principles SUN# ECN 2201	
PHI 101	Introduction to Philosophy SUN# PHI 1101	
or PHI 130	Introductory Studies in Ethics and Social Philosophy SUN# PHI 1105	3

POS 201	American National Government and Politics	SUN# POS 1110	3
PSY 101	Introduction to Psychology	SUN# PSY 1101	3
or SOC 101	Introduction to Sociology	SUN# SOC 1101	
Cultural Diversity Requirement			6
Complete two additional courses with a "C" designation			
Recommend two from ANT 202, 206, HIS 105, PSY/SOC 215, SOC 201 or 204			
Subtotal.			25-26
Total credits as displayed			62-63

† Support or core course(s) fulfill this requirement.

¥ The AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Liberal Arts – Sociology Concentration

What can I do with this concentration?

Academic Options: This program has been designed to match as closely as possible the first two years of a sociology degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-7666

or contact any campus Student Services office: www.pima.edu/mhtml/email/advising

Concentration Code: **ALAS**

Arizona General Education Curriculum Requirements (AGEC-A) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts	6
Recommend: AIS/ANT/HIS 148, AIS/ANT 206, HUM 260 or LIT 224 for the Humanities list	
Biological and Physical Sciences	8
Mathematics	3
Social and Behavioral Sciences	3
SOC 101 fulfills 3 credits of this requirement. Complete a non-SOC course from this category.	
Recommend: ANT/GWS 202, HIS/MAS 105, HIS/MAS 127	
Other Requirements	†
SOC 120 and 201 fulfill this requirement.	
Special Requirements	
Recommend HIS/MAS 127 to fulfill the I, C, G requirements; or SOC 120 to fulfill the C and G requirements and LIT 224 to fulfill the I requirement.	
Subtotal	26¥

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

SOC 101	Introduction to Sociology	SUN# SOC 1101	3
SOC 120*	Current Social Problems	SUN# SOC 2250	3
SOC 127	Marriage and the Family		3
SOC 201	Race, Ethnicity, Minority Groups and Social Justice	SUN# SOC 2215	3
SOC 204	Gender Identities, Interactions and Relations		3
Subtotal.			15

Required Support Courses

STU 100	College Success and Career Planning	1
or STU 106	Choosing a Major and College Success	
or STU 107	University Transfer Preparation and College Success	
Transfer Electives		3
Recommend GLS/SOC 110, PSY/SOC 215*		
Second Language Requirement**		16
Completion of a language course numbered 202, fourth semester level.		

Subtotal.	20
Total credits as displayed	61

† Core or support course(s) fulfill this requirement.

¥ The AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** See an advisor or counselor if:

- you are a bilingual student to discuss exceptions to this requirement or
- if you are considering taking the CLEP test to earn language credits or
- if the university major does not require a second language, this requirement may be waived

If this requirement is met in fewer than 16 credits, or if the language requirement is waived, additional transferable electives are necessary to meet the minimum associate degree requirement of 60 credit hours.

Liberal Arts – Translation and Interpretation Studies Concentration

Before enrolling in this program, you must score a minimum of 601 on the Spanish WebCAPE (Computerized Adaptive Placement Test)

What can I do with this certificate?

Academic Options: This program has been designed to transfer to the Spanish, Translation and Interpretation emphasis degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-7045

Lead Faculty: 520-206-7274

Conditional Program/Major Concentration Codes: **AOAALA/ALA1/ALAT**

Conditional Enrollment Program: You will be eligible to enroll in TRS courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Arizona General Education Curriculum Requirements (AGEC-A) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts	6
Biological and Physical Sciences	8
Mathematics	3
Social and Behavioral Sciences	6
Other Requirements	3
SPA 253* fulfill 3 credits of this requirement. Recommend: CMN 110 or 120	
Special Requirements	†
SPA 253 fulfills the G requirement. The I and C requirement should be fulfilled by completing appropriate courses in the above categories.	
Recommend CMN 110 or 120 to fulfill the C requirement.	
Subtotal.	32

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
TRS 101	Introduction to Translation and Interpretation	3
TRS 120IN	Technology for Translation and Interpretation	2
TRS 161	Medical Spanish and English Interpreting	3
TRS 162	Introduction to Legal Spanish and English Interpretation	3
TRS 282	Advanced Project in Translation	4
Subtotal.		15

Required Support Courses - A grade of C or better is required for graduation.

STU 100	College Success and Career Planning	1
Second Language Requirement		
SPA 253*	Intermediate Spanish for Heritage and Bilingual Learners	4
Transfer Electives		10-12
Recommend TRS 160, 202, 270		
Subtotal.		15-17
Total credits as displayed		62-64

- † Core or support course(s) fulfill this requirement.
- ¥ The AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.
- * This course has a prerequisite, co-requisite, or recommendation. See course description section.

Logistics and Supply Chain Management

Basic Logistics and Supply Chain Management — Certificate for Direct Employment

Get an introduction to logistics and transportation skills and principles.

What can I do with this certificate?

Career Options: Entry-level positions in logistics.

Academic Options: Continue your studies with the Logistics and Supply Chain Management AAS degree.

Gainful Employment Information: www.pima.edu/ge-crtlgc

Department/Contact Information:

Dean: 520-206-7694

Program/Major Codes: **CRTLGC/LGC1**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
LGM 101	Principles of Logistics and Supply Chain Management	3
LGM 102*	Inventory Control	3
LGM 104	Computerized Logistics	3
LGM 105	Warehouse Management	3
LGM 106	Transportation and Traffic Management	3
or LGM 108	International Logistics	
LGM 109	Readiness Skills for Logistics Careers	1
Total credits as displayed		16
Required Support Courses		
GTM 105*	Applied Technical Mathematics	3
WRT 101*	English Composition I SUN# ENG 1101.....	3
or WRT 154*	Career Communications	
Subtotal.		.6
Total credits as displayed		22

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Logistics and Supply Chain Management — Associate of Applied Science Degree for Direct Employment

Learn fundamental principles of logistics and transportation, as well as skills in inventory control, warehouse management, business, and supervision.

What can I do with this degree?

Career Options: Entry-level to supervisory-level positions in inventory control, transportation, and warehouse management.

Academic Options: While this program was not designed to transfer to a 4-year university, it may apply toward Bachelor of Applied Science (BAS) or other programs. See Pima's Transfer Partnerships (www.pima.edu/current-students/transferring-from-pima/transfer-partnerships.html) page to determine which universities offer BAS programs, and research how the universities may accept this program in transfer.

Department/Contact Information:

Dean: 520-206-7694

Program/Major Codes: **AASLGM/LGM1**

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	†
WRT 101 or 154 fulfills this requirement, recommend: WRT 154.	
Arts and Humanities Requirement	3
Recommend: PHI 101	
Social and Behavioral Science Requirement	†
GEO 103 or 104 fulfills this requirement.	
Mathematics and Science Requirement	†
GTM 105 or MAT 106 fulfills this requirement, recommend: MAT 106	
Other Requirements	
Recommend: SOC 110	3
Special Requirements	
Recommend: GEO 103 or 104 fulfills this requirement.	
Subtotal.	.6¥

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

LGM 101	Principles of Logistics and Supply Chain Management	3
LGM 102*	Inventory Control	3
LGM 103	Contracts and Freight Claims	3
LGM 104	Computerized Logistics	3
LGM 105	Warehouse Management	3
LGM 106	Transportation and Traffic Management	3
LGM 107	Introduction to Purchasing	3
LGM 108	International Logistics	3
LGM 109	Readiness Skills for Logistics Careers	1
LGM 290*	Logistics and Supply Chain Internship	3
or LGM 296	Independent Study in Logistics and Supply Chain Management	
Subtotal.		.28

Required Support Courses

BUS 100	Introduction to Business	3
BUS 125	eCommerce	3
BUS 148	Ethics in the Workplace	3
CSA 110*	Spreadsheets: Microsoft Excel.	3
GEO 103	Cultural Geography	3
or GEO 104	World Regional Geography	
GTM 105*	Applied Technical Mathematics	3
or MAT 106	Elementary Data Analysis with Spreadsheets	
MGT 110	Human Relations in Business and Industry	3
MGT/STU 230	Dynamics of Leadership	3
WRT 101*	English Composition I SUN# ENG 1101	3
or WRT 154*	Career Communications	
Subtotal.		.27
Total credits as displayed		.61

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Machine Tool Technology

Gain skills and experience needed for employment as a machinist.

Machining Inspection and Quality Assurance — Certificate for Direct Employment

Learn inspection skills in machine shop parts and applied measurement and technology.

What can I do with this certificate?

Career Options: Entry-level employment in a variety of machine tool technology careers.

Academic Options: Continue your studies with the AAS in Machine Tool Technology.

Gainful Employment Information: www.pima.edu/ge-crtmin

Department/Contact Information:

Dean: 520-206-7134

Lead Faculty: 520-206-7139

Program/Major Codes: **CRTMIN/MIN**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
CAD 117	Print Reading with CAD for Manufacturing	4
CAD 172*	Geometric Dimensioning and Tolerancing.....	3
GTM 105*	Applied Technical Mathematics	3
MAC 100	Introduction to Machine Tool	3
MAC 125*	Inspection Quality Assurance	4
Total credits as displayed		17

Computer Numerical Control (CNC) Operator — Certificate for Direct Employment

Learn fundamental skills Computer Numerical Control (CNC).

What can I do with this certificate?

Career Options: Entry-level employment in a variety of machine tool technology careers.

Academic Options: Continue your studies with the AAS in Machine Tool Technology.

Gainful Employment Information: www.pima.edu/ge-crtcno

Department/Contact Information:

Dean: 520-206-7134

Lead Faculty: 520-206-7139

Program/Major Codes: **CRTCNO/CNO**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
CAD 117	Print Reading with CAD for Manufacturing	4
CAD 172*	Geometric Dimensioning and Tolerancing.....	3
GTM 105*	Applied Technical Mathematics	3
MAC 100	Introduction to Machine Tool	3
MAC 125*	Inspection Quality Assurance	4
MAC 150*	Computer Numerical Control (CNC) Mill Programming I.....	4
MAC 155*	Computer Numerical Control (CNC) Mill Programming II	4

MAC 160*	Computer Numerical Control (CNC) Lathe Programming	4
Total credits as displayed		29

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Machine Tool Technology — Associate of Applied Science Degree for Direct Employment

Learn fundamental skills in machine shop operations, specializing in one of the concentrations listed below.

What can I do with this certificate?

Career Options: Begin a career in machine tool technology.

Academic Options: While this program was not designed to transfer to a 4-year university, it may apply toward Bachelor of Applied Science (BAS) or other programs. See Pima's Transfer Partnerships (www.pima.edu/current-students/transferring-from-pima/transfer-partnerships.html) page to determine which universities offer BAS programs, and research how the universities may accept this program in transfer.

Department/Contact Information:

Dean: 520-206-7134

Lead Faculty: 520-206-7139

Program/Major/Concentration Codes: **AASMAC/MAC1**

Course Number	Course Title	Credit Hours
General Education Requirements - A grade of C or better is required for graduation.		
<i>Course lists for each General Education category listed below can be found starting on page 49.</i>		
Communication Requirement		†
GTW 101 fulfills this requirement		
Arts and Humanities		3
Recommend: HIS 101		
Social and Behavioral Science Requirement		3
Recommend: ARC 205		
Mathematics and Science		†
GTM 105 fulfills this requirement		
Other Requirement		†
MAC 275 fulfills this requirement		
Special Requirements		
The C or G requirement should be fulfilled by completing an appropriate course in the above categories.		
Subtotal.		.6¥

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
MAC 100	Introduction to Machine Tool	3
MAC 110*	Manual Machine Shop	4
MAC 125*	Inspection Quality Assurance	4
MAC 130*	Machine Set-Up and Fixture Making.....	3
MAC 150*	Computer Numerical Control (CNC) Mill Programming I	4
MAC 155*	Computer Numerical Control (CNC) Mill Programming II	4
MAC 160*	Computer Numerical Control (CNC) Lathe Programming	4
MAC 257*	Computer-Aided Machining (CAM) I	4
MAC 258*	Computer-Aided Machining (CAM) II.....	4
MAC 259*	Computer-Aided Machining (CAM) III	4
MAC 275*	Applied Metallurgy	4
Subtotal.		.42

Required Support Courses

CAD 117	Print Reading with CAD for Manufacturing	4
CAD 172*	Geometric Dimensioning and Tolerancing	3

GTM 105*	Applied Technical Mathematics	3
GTW 101	Writing for Trades and Technical Occupations	3
STU 100	College Success and Career Planning.....	1
Subtotal.		14
Total credits as displayed		62

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Medical Assistant

Medical Assistant — Certificate for Direct Employment

Learn advanced skills in patient care and prepare to take exams for licensure.

Before enrolling in this program, students achieve passing scores on required College assessment tests and submit the following:

- Health Declaration
- Signed acknowledgement of receipt of drug screening policy
- Residency affidavit
- CPR at Health Care Provider Level (BLS)/first aid certification from a recognized training provider
- Proof of health insurance
- Proof of immunizations: Hepatitis B, MMR, Varicella, TDAP
- TB Test (negative result or a negative chest X-ray)

What can I do with this certificate?

Career Options: Upon completion of this certificate, students are eligible to take the Certified Medical Assistant (CMA) exam, through the American Association of Medical Assistants, or the Registered Medical Assistant (RMA) exam through the American Medical Technologists. Work as a Medical Assistant in physicians' offices, medical centers, urgent care facilities, and outpatient clinics.

Academic Options: Continue your studies by taking courses to qualify as a practical nurse, registered nurse, or medical coding and billing specialist.

Gainful Employment Information: www.pima.edu/ge-crthpm

Department/Contact Information:

Dean: 520-206-5105

Lead Faculty: 520-206-5072

Conditional Program/Major Codes: **CRTHPM/9HPM**

Conditional Enrollment Program: You will be eligible to enroll in MDA courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
HCA 103	Orientation to Pharmacology	3
HCA 119	Orientation to Human Anatomy and Physiology	3
MDA 120	Medical Assistant Profession	2
MDA 121	Medical Assistant Skills for Success	2
MDA 122	Medical Assistant Clinical Care	2
MDA 123	Medical Assistant Clinical Procedures	3
MDA 124	Medical Terminology for Health Care Workers	2
MDA 125	Orientation to ICD-10-CM and CPT Coding	3
MDA 127	Administrative Procedures for Medical Assistants	3
MDA 128*	Medical Billing and Insurance for Medical Assistants	2
MDA 190A*	Medical Assistant Front Office Externship	1
MDA 190B*	Medical Assistant Back Office Externship	1
Subtotal.		27

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Medical Laboratory Technician

Medical Laboratory Technician — Associate of Applied Science Degree for Direct Employment

Prepare for a career in medical laboratory technology through classroom study and supervised clinical experience. Learn about blood, analysis of body fluids, bacteriology, parasitology, clinical chemistry and other aspects of medical laboratory technology.

This program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

For more information on program accreditation:

NAACLS

8410 West Bryn Mawr, Suite 670

Chicago, IL 60631

(773) 714-8880

www.naacls.org

Before enrolling in this program, you must meet certain requirements.

- This degree program requires a special program application. Students may request a program application when all prerequisites are complete. In addition, students must have completed the preparatory coursework (with grades posted) before they may begin the application process.

To participate in the clinical portion of the program, students must:

- Obtain an Arizona Department of Public Safety Fingerprint Clearance Card.
- Pass a urine toxicology screening exam from a certified laboratory.
- Provide proof of immunity status to Measles, Mumps, Rubella and Hepatitis B Virus.
- Provide proof of immunization to Tetanus, Diphtheria, Pertussis, and Influenza.
- Provide proof of a two-step negative TB skin test or alternate documentation of TB status, including a chest x-ray or blood work.
- Provide proof of health insurance coverage.
- Provide a declaration of health from a licensed care provider.

Essential Functions

To successfully participate in the PCC MLT program and become employable in a medical facility, the student should be able to perform essential functions expected of the working professional. Some examples of these essential functions are:

- **Vision:** Should possess visual acuity, color, shade and depth perception to accurately perform and interpret laboratory tests. Must be able to read computer screens, specimen/reagent labels, and warning signs.
- **Communication:** Should possess the ability to clearly and accurately communicate with patients and health care professionals, and to accurately follow verbal and written instructions.
- **Physical Activity:** Should be able to stand and/or sit for prolonged periods and move freely and safely through the laboratory. Should be able to grasp, sit, squat, stoop, bend, reach, push, pull, and lift and carry up to 50 pounds.
- **Manual Dexterity:** Should possess sufficient hand-eye coordination to efficiently, accurately and safely operate laboratory equipment, such as pipettes, inoculating loops, precision instrumentation, and perform phlebotomy procedures.

NOTE: Students in the Medical Laboratory Technician program may be exposed to potentially infectious blood, tissues, and body fluids.

What can I do with this degree?

Career Options: Work in the clinical laboratory of a hospital, clinic, reference laboratory, blood bank, coroner's office or in biomedical research.

Academic Options: While this program was not designed to transfer to a 4-year university, it may apply toward Bachelor of Applied Science (BAS) or other programs. See Pima's Transfer Partnerships (www.pima.edu/current-students/transferring-from-pima/transfer-partnerships.html) page to determine which universities offer BAS programs, and research how the universities may accept this program in transfer.

Department/Contact Information:

Dean: 520-206-5105

Medical Lab Tech Interest Program/Major Codes: **AOA9ALA/9MLT** - Same requirements as AA in Liberal Arts, General Concentration (AOAALA/ALA1/ALAG). See page 157 for program requirements.

Medical Lab Tech Program/Major Codes: **AASMLT/MLT1**

Limited Admissions Program: Students must meet the preparatory coursework and any other prerequisites and apply to the program. Depending on available spots, students may be placed on a waiting list before starting the program. See the website or an advisor for details.

Preparatory Coursework

Students must have completed the following preparatory coursework before they may begin the application process.

REA 112HP* or REA 112* or a Next Generation Accuplacer Reading score of 256 or higher	0-4
BIO 201IH* Human Anatomy, Physiology and Histology with a grade of B or better within the last eight years	4
CHM 151IN* General Chemistry I with a grade of B or better within the last eight years	4
MAT 151* or 188* or test into MAT 189	0-4
Subtotal.	8-16

General Education Requirements A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	†
WRT 101 fulfills this requirement.	
Arts and Humanities Requirement	3-4
Recommend: PHI 123 or SPA 101	
Social and Behavioral Sciences Requirement	3
Recommend: PHI 130 or PSY/SOC 215 or PSY 218	
Mathematics and Science Requirement	†
BIO 205IN and the Math Preparatory Coursework fulfill this requirement.	
Other Requirement	3-4
Recommend: ANT 210, GEO 103, or PSY 132	
Special Requirement	
Recommend: ANT 210, GEO 103, or PSY 132	
Subtotal.	9-11‡

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

MLT 100IN**Δ	Phlebotomy for Medical Laboratory Technology	3
MLT 199**	Introductory Co-op: Phlebotomy Lab Assisting	1.5
MLT 199*WK**	Introductory Co-op Work: Phlebotomy Lab Assisting	1.5
MLT 200**	Urinalysis/Body Fluids	3
MLT 211**	Hematology	5
MLT 221**	Clinical Chemistry	4
MLT 231**	Immunohematology/Immunology	5
MLT 251**	Clinical Microbiology	5
MLT 260**	Parasitology and Immunology/Serology	3
MLT 299**	Advanced Co-op: Medical Laboratory Technician	6.5
MLT 299WK**	Advanced Co-op Work: Medical Laboratory Technology	7.5
Subtotal.		45

Required Support Courses - A grade of C or better is required for graduation.

BIO 205IN*	Microbiology with a grade of B or better within the last eight years	SUN# BIO 2205	4
STU 100	College Success and Career Planning		1
WRT 101*	English Composition I	SUN# ENG 1101	3
Subtotal.			8
Total credits as displayed (not including preparatory coursework)			63-64
Total credits as displayed (including preparatory coursework)			71-80

† Core or support course(s) fulfill this requirement.

‡ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Only one of these courses may be repeated one time. If a course needs to be repeated, re-entry into the remaining courses will be based on space availability.

Δ MLT 100IN is the integrated version of the combined lecture and lab courses. MLT 100 and MLT 100LB combined are equivalent to MLT 100IN, and together may be substituted for MLT 100IN.

Nursing

The goal of the Associate of Applied Science in Nursing: PN Exit Option program is to prepare the learner for employment as a registered nurse (RN), licensed practical nurse (LPN), and/or a licensed or certified nursing assistant (LNA/CNA) through a stackable credential model curriculum.

Associate of Applied Science in Nursing — PN Exit Option Degree for Direct Employment

Receive comprehensive education and practical experience in nursing, and prepare to become licensed as a registered nurse. Students who choose to leave the program before completing the degree may qualify for other certificates through the AAS in Nursing: PN Exit Option stackable credential model.

This program is approved by the Arizona State Board of Nursing (AZBN) located at 1740 W. Adams, Phoenix, AZ. 85007 (www.azbn.gov) and is accredited by the Accreditation Commission for Education in Nursing, Inc., (ACEN), 3343 Peachtree Rd. NE, Suite 850, Atlanta, GA 30326 (www.acenursing.org)

Before enrolling in this program you must meet certain requirements:

This degree program requires a special program application available at www.pima.edu/nursing. Once all prerequisites are complete, students can access the program application at www.pima.edu/nursing.

To participate in the clinical portion of the program, the students must:

1. Obtain an Arizona Department of Public Safety (DPS) fingerprint clearance card.
2. Pass a toxicology screen.
3. Be able to perform a number of physical activities. At a minimum, students will be required to lift patients, stand for several hours at a time and perform bending activities.
4. The clinical nursing experience places students under considerable mental and emotional stress as they undertake responsibilities and duties impacting the lives of others. Students must be able to demonstrate rational and appropriate behavior under stressful conditions. Individuals should give careful consideration to the mental and physical demands of the program prior to making application.
5. Present proof of a variety of immunizations, including but not limited to, MMR, Varicella, Hepatitis B, TDap, and Influenza.
6. Show proof of negative Tuberculosis (TB) skin test or negative chest x-ray for TB.
7. Maintain active health insurance throughout the program.
8. Maintain a Healthcare Provider Basic Life Support (BLS) credential from the American Heart Association for the duration of the program.
9. Students will be assigned to any clinical site throughout the region at the discretion of the program. Therefore, students who are unable to be placed at a clinical site (i.e. restricted from access to the facility) will not be able to enter the program.

Licensed Practical Nursing (LPN) Transition into AAS in Nursing:

Licensed Practical Nurses with work experience, including graduates from Pima's Center for Training and Development, are eligible to apply for entry into the second year of the Associate of Applied Science in Nursing: PN Exit Option program by completing the prerequisites listed above and NRS 188/188LC/188LS transition course.

After entry into the program, LPN Transition students will be required to complete a NRS 155 (Pharmacology) challenge examination administered by the Department of Nursing. A passing score on the NRS 155 challenge exam will result in the student entering into the transition course, NRS 188 and allow completion of the program in three semesters. Unsuccessful passing of the NRS 155 challenge exam will result in the candidate having to successfully complete NRS 155 as a corequisite after entry into the nursing program, resulting in a fourth semester extension to the program, to progress into the NRS 188 transition course.

To apply, candidates must complete 14 to 15 credits of preparatory/prerequisites (MAT 142 (or 151 or higher), BIO 201IN/BIO 201IH, BIO 202IN, WRT 101) and complete the Accuplacer Reading and HESI A2 assessments. Successful candidates granted entry into the program will be required to take WRT 102 during their NRS 188/188LC/188LS transition semester. If accepted, the student must successfully complete a nine credit transition course (NRS 188/188LC/188LS) and 9 credits of co-requisites (HCA 100, WRT 102, PSY 101, and BIO 127IN) for a total of 19 credits.

The candidate must complete 576 hours of employment (verified by official letter from their employer) as a Licensed Practical Nursing (LPN). A valid, unencumbered LPN license provides advanced placement for practicing LPN's which bypasses NRS 104/104LC/104LS and

NRS 108, or the first semester of the AAS in Nursing program. For more information see <https://www.pima.edu/programs-courses/credit-programs-degrees/health-professions/nursing/nursing-aas-LPN-transition.html>

Program Transfer and Re-entry

Students currently enrolled in another accredited ADN Nursing Program wishing to transfer to Pima, or students wishing to re-enter the program, should contact the Nursing Department Office at 520-206-6661.

If a student initiates a withdraw from, or withdrawal while failing, a core nursing class during a semester, they will be withdrawn from all nursing core classes within that semester and will have to repeat all the core courses within the semester (core nursing courses, NRS 108, or NRS 155). This action may have an effect on the student's status in the program, financial aid, and community sponsored support.

Pima Community College and various university partners have partnered to offer qualified students the opportunity to earn a Bachelor of Science in Nursing (BSN) or Master of Science in Nursing (MSN) while pursuing their Associate's Degree in Nursing.

For more information go to: <http://www.pima.edu/programs-courses/credit-programs-degrees/health-professions/nursing/nursing-concurrent.html>

What can I do with this degree?

Career Options: Students who complete the Associate of Applied Science in Nursing; PN Exit Option program are eligible to apply to take the National Council Licensure Examination for Registered Nursing (NCLEX-RN) to be eligible to work as a registered nurse. Students who complete block three of the program are eligible to take the National Council Licensure Examination for Practical Nurses (NCLEX-PN).

Academic Options: Students may pursue a Bachelor's of Science in Nursing (BSN) or a Master's of Science in Nursing (MSN) at a university or complete their BSN or MSN concurrently in the Associate of Applied Science in Nursing; PN Exit Option program.

Department/Contact Information:

Department of Nursing
2202 W. Anklam Road
Tucson, AZ. 95709-0150

520-206-6661 (Main and Department Head)
520-206-6663 (Dean of Critical Care)

Nursing Interest Program/Major code: **AOA9ALA/9NRS** - Same requirements as AA in Liberal Arts, General Concentration (AOAALA/ALA1/ALAG). See page 157 for program requirements.

Nursing Program/Major code: **AASADNURSING/NRS1**

Competitive Admissions Program: Students must meet the preparatory coursework and any other prerequisites and apply to the program. Only the most qualified students are admitted to the program. See the www.pima.edu/nursing website or a West Campus advisor for details. Students are encouraged to attend an information session for the Department of Nursing.

Program Preparatory Requirements -

Students must have completed the following before they may begin the application process.

MAT 142 or MAT 151 or any Math that requires MAT 142 or MAT 151 or MAT 188 as a prerequisite with a grade of C or higher, or placement into a higher math	3-4
BIO 201IN* or BIO 201IH* with a grade of C or higher	4
BIO 202IN* with a grade of C or higher	4
WRT 101 with a grade of C or higher	3
Accuplacer Reading Assessment	
HESI A2 Assessment for Math, Reading, and Anatomy/Physiology with a 75% or higher	
HESI A2 assessment results are only able to be used for one year from assessment date for application	
Subtotal.	14-15

General Education Requirements - A grade of C or better is required for graduation.

Communication Requirement	†
WRT 102 fulfills this requirement.	
Arts and Humanities Requirement	3
Complete a course which meets the C or G requirements. Recommend: ANT 112, ANT/AIS 206, HIS 101 or 141	
Social and Behavioral Science Requirement	†
PSY 101 fulfills this requirement	
Mathematics and Science	†
BIO 205IN and the Math program prerequisite fulfill this requirement.	
Other Requirements	†
PSY 240 or ECE 107 fulfills this requirement	

Special Requirements

Recommend: AIS/ANT 206, ANT 112, HIS 101 or 141

Subtotal.3¥

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

NRS 104*/104LC*/104LS*	Nursing Process I	8
NRS 105*/105LC*/105LS*	Nursing Process II	9
Or NRS 188/188/LC/188LS***		
NRS 108**	Drug Calculations	1
NRS 155*	Introduction to Pharmacology	3
NRS 201*/201LC*	Nursing Process III	9
NRS 202*/202CA*/202CB*	Nursing Process IV	9
NRS 203*	Nursing Trends and Issues	1
Subtotal.		40

Required Support Courses - A grade of C or better is required for graduation.

BIO/FSN 127IN or FSN 154	Human Nutrition and Biology	3-4
BIO 205IN*	Nutrition	
HCA 100	Microbiology SUN# BIO 2205	4
PSY 101	Strategies for Academic Success	1
PSY 240*	Introduction to Psychology SUN# PSY 1101	3
or ECE 107*	Developmental Psychology	3
WRT 102*	Human Development and Relations	
	English Composition II SUN# ENG 1102	3
Subtotal.		17-18
Total credits as displayed (not including program prerequisites or preparatory coursework)		60-61
Total credits as displayed (including program prerequisites and preparatory coursework)		74-76

† Support or core course(s) fulfill this requirement.

¥ General Education requires 19-21 credits. This subtotal shows the Gen Ed credits not fulfilled by other program requirements.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** NRS 108 requires a grade of A.

*** NRS 188/188LC/188LS is only available to Licensed Practice Nurse advanced placement.

Paralegal

Prepare for entry-level paralegal or legal assistant positions with these programs approved by the American Bar Association.

Paralegal — Associate of Applied Science Degree for Direct Employment

Learn to investigate legal cases, draft legal documents, prepare for trial, perform legal research and other law related projects the supervision of an attorney. Program may include a Paralegal Internship.

What can I do with this degree?

Career Options: Become a paralegal or legal assistant, title examiner, trust officer, contract manager, legal investigator, or perform a wide variety of functions in any time of court or corporation.

Academic Options: While this program was not designed to transfer to a 4-year university, it may apply toward Bachelor of Applied Science (BAS) or other programs. See Pima's Transfer Partnerships (www.pima.edu/current-students/transferring-from-pima/transfer-partnerships.html) page to determine which universities offer BAS programs, and research how the universities may accept this program in transfer.

Department/Contact Information:

Dean: 520-206-7134

Lead Faculty: 520-206-7298

Program/Major Codes: **AASLEGALASST/LAS1**

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	†
WRT 101 fulfills this requirement.	
Arts and Humanities Requirement	3
Recommend: PHI 101	
Social and Behavioral Sciences Requirement	3
Recommend: POS 201	
Mathematics and Sciences Requirement	3
Recommend: MAT 142	
Other Requirement	†
CIS104 or CIS 120 fulfills this requirement	
Special Requirement	
Recommend: POS 201	
Subtotal.	9

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

PAR 101	Introduction to Paralegal Careers	3
PAR 102*	Civil Litigation Procedures I	3
PAR 103*	Legal Research	3
PAR 104	Paralegal Ethics	3
PAR 106	Civil and Criminal Evidence	3
PAR 202*	Civil Litigation Procedures II	3
PAR 211*	Legal Writing	3
PAR 213*	Computer Assisted Legal Research	3
Subtotal.		24

PAR ELEC PAR Specialty Area Electives

Complete 15-16 credits from the following PAR specialty area electives course list: (Specialty courses are not offered every semester. Consult with a PAR faculty advisor or counselor to determine class offerings.)

PAR 203*	Tort Law Procedures	3
PAR 204*	Wills, Trusts, and Estates	3

PAR 206*	Criminal Law and Procedures I	3
PAR 207*	Criminal Law and Procedures II	3
PAR 208*	Domestic Relations and Family Law	3
PAR 209*	Bankruptcy Procedures	3
PAR 212*	Law Office Computerization	3
PAR 215*	Corporate Law Procedures	3
PAR 217*	Real Estate Legal Procedures	3
PAR 218*	Administrative Law: Employment	1
PAR 219*	Administrative Law: Immigration	1
PAR 220*	Administrative Law: Social Security	1
PAR 290*	Paralegal Internship	4
(The internship is designed to give the students work experience at an approved site. For students in their final semester of coursework. Application and acceptance required.)		
Subtotal.		15-16

Required Support Courses

ACC 100 or ACC 211*	Practical Accounting Procedures Financial Accounting SUN# ACC 2201	3
CIS/CSA 104* or CIS 120	Computer Fundamentals Computer Applications for Business	3-4
STU 100	College Success and Career Planning	1
WRT 101*	English Composition I SUN# ENG 1101	3
WRT 102*	English Composition II SUN# ENG 1102	3
Subtotal.		13-14
Total credits as displayed		61-63

† Core or support course(s) fulfill this requirement.

‡ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** MAT 151 or higher will also meet this requirement

Paralegal — Post-Degree Certificate for Direct Employment

Learn to investigate legal cases, draft legal documents, and perform legal research under the supervision of an attorney. This program includes a paralegal internship.

Before enrolling in this program, you must have earned a bachelor's degree or an Associate of Arts or Science from an accredited post-secondary institution.

What can I do with this certificate?

Career Options: Seek a position as a paralegal or legal assistant, title examiner, trust officer, contract clerk, legal investigator or law firm administrator.

Academic Options: Continue your studies by taking additional professional development courses.

Gainful Employment Information: www.pima.edu/ge-crdlegalsst

Department/Contact Information:

Dean: 520-206-7134; Lead Faculty: 520-206-7352

Conditional Program/Major Codes: **CRDLEGALASST/9LAP**

Conditional Enrollment Program: You will be eligible to enroll in PAR courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
PAR 101	Introduction to Paralegal Careers	3
PAR 102*	Civil Litigation Procedures I	3
PAR 103*	Legal Research	3
PAR 104*	Paralegal Ethics	3
PAR 106*	Civil and Criminal Evidence	3

PAR	202*	Civil Litigation Procedures II	3
PAR	211*	Legal Writing	3
PAR	213*	Computer Assisted Legal Research	3
Subtotal.			24

PAR ELEC PAR Specialty Area Electives

Complete 15 credits from the following PAR specialty area electives course list:

(Specialty courses are not offered every semester. Consult with a PAR faculty advisor to determine class offerings.)

PAR	203*	Tort Law Procedures	3
PAR	204*	Wills, Trusts, and Estates	3
PAR	206*	Criminal Law and Procedures I	3
PAR	207*	Criminal Law and Procedures II	3
PAR	208*	Domestic Relations and Family Law	3
PAR	209*	Bankruptcy Procedures	3
PAR	212*	Law Office Computerization	3
PAR	215*	Corporate Law Procedures	3
PAR	217*	Real Estate Procedures	3
PAR	218*	Administrative Law: Employment	1
PAR	219*	Administrative Law: Immigration	1
PAR	220*	Administrative Law: Social Security	1
PAR	290*	Paralegal Internship	4

(The internship is designed to give the students work experience at an approved site. For students in their final semester of course work.

Application and acceptance is required.)

Subtotal.			15
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Required Support Course

WRT	101*	English Composition I	SUN# ENG 1101	3
	or WRT 102*	English Composition II	SUN# ENG 1102	

Subtotal.				3
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Total credits as displayed				42
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* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Pharmacy Technology

Learn how to assist pharmacists in packaging and distributing medications.

Pharmacy Technology — Certificate for Direct Employment

Learn to work as a pharmacy technician assisting a pharmacist. This program includes training within laboratory and clinical settings.

Before enrolling in this program, you must submit a Pharmacy Technology application, which is available online in two formats.

NOTE: Some PHT courses have reading and/or math prerequisites. Before beginning PHT coursework, students will need to have either completed REA 091 (or higher) and MAT 092 (or higher); or meet course prerequisite requirements through assessment (i.e. assessment score at the REA 112 level or higher, or Mathematics assessment score at MAT 097 or higher).

Prospective students with a criminal background see www.pima.edu/programs-courses/credit-programs-degrees/health-professions/pharmacy-tech/pharmacy-tech-aas-admission.html for licensure and clinical practice eligibility.

What can I do with this certificate?

Career Options: Work in hospitals, nursing care facilities and drug stores and with drug manufacturers, wholesale drug houses and health maintenance organizations.

Academic Options: Pursue other programs in the health field.

Gainful Employment Information: www.pima.edu/ge-crtpharmtech

Department/Contact Information:

Dean: 520-206-5105

Lead Faculty: 520-206-7850

Conditional Program/Major Codes: **CRTPHARMTECH/9PHC**

Conditional Enrollment Program: You will be eligible to enroll in PHT courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
PHT 170*	Introduction to Pharmacy Technology	2
PHT 171IN*	Pharmaceutical Calculations	4
PHT 172*	Drug Therapy I	4
PHT 175IN*	Pharmacy Operations	5
PHT 179IN*	Sterile Products	5
PHT 181*	Interprofessional Relations in Pharmacy	3
PHT 182*	Drug Therapy II	4
PHT 187*	Pharmacy Law and Ethics	3
PHT 190LB*	Pharmacy Technician Internship	4
PHT 197*	Clinical Seminar	2
Subtotal.		36
Required Support Courses		
CHM 130IN*	Fundamental Chemistry I SUN# CHM1130.....	4
STU 100	College Success and Career Planning.....	1
MGT/STU 230	Dynamics of Leadership	3
Subtotal.		8
Total credits as displayed		44

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Phlebotomy

Phlebotomy — Certificate for Direct Employment

Learn skills to prepare for employment in the area of phlebotomy and prepare to take exams for national certification.

Before enrolling in this program, students must submit the following:

- Health Declaration
- Signed acknowledgement of receipt of drug screening policy
- Proof of health insurance
- Residency affidavit
- Proof of Immunizations: Hepatitis B, MMR, Varicella, TDAP (recommended)
- TB Test (negative result or a negative chest X-ray)

What can I do with this certificate?

Career Options: Once eligible, students are encouraged to take one of the national certification exams in phlebotomy. Work as a phlebotomist in physician's offices, medical centers, clinics, and medical laboratories.

Academic Options: Take courses in medical laboratory technology, medical assisting, registered nursing or practical nursing.

Department/Contact Information:

Dean: 520-206-5105

Lead Faculty: 520-206-5072

Conditional Program/Major Codes: **CRTPHB/9PHB**

Conditional Enrollment Program: You will be eligible to enroll in PHB courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
PHB 160	Foundations of Phlebotomy	3
PHB 162*	Safety Standards in Phlebotomy	3
PHB 164*	Professional Practices in Phlebotomy	3
PHB 166LB*	Phlebotomy Laboratory Practice	2
PHB 190LC*	Clinical Internship in Phlebotomy	1-3
Total Credits as Displayed		12-14

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Radiologic Technology

Become a certified Radiologic Technologist in the field of diagnostic medical imaging.

Radiologic Technology — Associate of Applied Science Degree for Direct Employment

Learn diagnostic medical imaging, equipment operation, radiographic procedures, patient care, and radiation protection. This program is accredited by the Joint Review Committee of Education for Radiologic Technology.

Students will be required to complete 1800 clinical clock-hours in order to be eligible for the national certification examination.

Before enrolling in this program, you must complete certain requirements:

In addition to the course prerequisites listed below, this degree program requires a special program application. Once all preparatory coursework is complete, students can access the program application on the MyPima Academics tab in the Degree and Programs section.

Prospective students with misdemeanor or felony convictions see www.pima.edu/programs-courses/credit-programs-degrees/health-professions/radiologic-technology/admissions.html for important information on licensure.

To participate in the program, the students must:

- Provide and maintain an Arizona DPS Fingerprint Clearance Card.
- Upon request pass an annual urine toxicology screening exam.
- Be able to perform a number of physical activities in the clinical portion of the program. At a minimum, students will be required to lift patients, stand for several hours at a time and perform bending activities. The clinical Radiologic Technology program also places students under considerable mental and emotional stress as they undertake responsibilities and duties impacting patients' lives. Students must be able to demonstrate rational and appropriate behavior under stressful conditions. Individuals should give careful consideration to the mental and physical demands of the program prior to making application.
- Provide own transportation to various clinical facilities throughout the Tucson regional area.
- Present proof of immunizations or immunity for MMR/Varicella/TDaP.
- Obtain an annual flu shot.
- Negative PPD Tuberculosis initial 2-step process.
- Clinical rotations are at various clinical facilities throughout the Tucson regional area.
- Maintain health insurance and a current CPR card for the Health Care Provider Level throughout the program.

What can I do with this degree?

Career Options: Eligibility to apply for the National Certification exam by the American Registry of Radiologic Technologists and qualify to work in hospitals, clinics, and doctors' offices.

Academic Options: While this program is not designed to transfer to a 4-year university, it may apply toward Bachelor of Applied Science (BAS) or other programs. See Pima's Transfer Partnerships (www.pima.edu/current-students/transferring-from-pima/transfer-partnerships.html) page to determine which universities offer BAS programs, and research how the universities may accept this program in transfer.

Department/Contact Information:

Dean: 520-206-6916

Lead Faculty: 520-206-3105

Radiologic Tech Interest Program/Major Codes: **AOA9ALA/9RAD** - Same requirements as AA in Liberal Arts, General Concentration (AOAALA/ALA1/ALAG). See page 157 for program requirements.

MRadiologic Tech Program/Major Codes: **AASRADLGTECH/RAD1**

Limited Admissions Program: Students must meet the preparatory coursework and any other prerequisites and apply to the program. Depending on available spots, students may be placed on a waiting list before starting the program. See the website or an advisor for details.

Preparatory Coursework – These courses may be eligible for Title IV loans only; see a financial aid specialist.

International students must score higher than 450 on the institutional TOELF (Test of English as a Second Language)

Students must have completed the following (with grades posted) before they may begin the application process.

REA 112HP** with a grade of B or higher, or a Next Generation Accuplacer Reading score of 256 or higher	0-4
BIO 156IN* Intro Biology Allied Health with a grade of B or higher	4
MAT 151* or higher with a grade of C or higher within the last four years; or placement into MAT 189 in the last four years	0-4
HCA 100 Strategies for Academic Success	1
or STU 100 College Success and Career Planning with a grade of C or higher	
Subtotal.	5-13

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	†
WRT 101 fulfills this requirement.	
Art and Humanities Requirement	†
AIS/HIS 122 or AIS/ANT 206 fulfills this requirement	
Social and Behavioral Science Requirement	†
PSY 101 fulfill this requirement.	
Mathematics and Science Requirement	†
BIO 201IN and the Math Preparatory coursework fulfill this requirement.	
Other Requirement	†
WRT 102 fulfills this requirement	
Special Requirement	†
AIS/HIS 122 or AIS/ANT 206 fulfills this requirement.	
Subtotal.	.0¥

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

RAD 170/170LB*	Medical Imaging Fundamentals/Lab	3
RAD 171/171LB*	Radiographic Positioning I/Lab	3.75
RAD 172/172LB*	Medical Imaging Technology I/Lab	3.5
RAD 173LC*	Clinical Education I	6
RAD 174/174LB*	Radiographic Positioning II/Lab	3.75
RAD 175/175LB*	Medical Imaging Technology II/Lab	3.5
RAD 176LC*	Clinical Education II	6
RAD 177LC*	Clinical Education III	4.5
RAD 180*	Introduction to Radiation Biology	1
RAD 181*	Radiographic Positioning III	3
RAD 182*	Medical Imaging Technology III	3
RAD 183LC*	Clinical Education IV	5
RAD 184/184LB*	Radiographic Positioning IV/Lab	3.5
RAD 185*	Clinical Seminar	2.5
RAD 186LC*	Clinical Education V	6
Subtotal.		.58

Required Support Courses - A grade of C or better is required for graduation.

AIS/HIS 122 or AIS/ANT 206	Tohono O'odham History and Culture	3
BIO 201IN or BIO 201IH	Human Anatomy and Physiology I SUN# BIO 2201	4
PSY 101	Human Anatomy, Physiology and Histology	
PSY 101	Introduction to Psychology SUN# PSY 1101	3
WRT 101*	English Composition I SUN# ENG 1101	3
WRT 102*	English Composition II SUN# ENG 1102	3
Subtotal.		.16
Total credits as displayed (not including preparatory coursework)		.74
Total credits as displayed (including preparatory coursework)		79-87

† Core or support course(s) fulfill this requirement.

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** REA 112 will also be accepted.

Respiratory Care

Respiratory Care — Associate of Applied Science Degree for Direct Employment

Develop skills through classroom, laboratory, and clinical experience to become a Registered Respiratory Therapist (RRT). The Pima Community College Respiratory Care program is accredited by the Commission on Accreditation for Respiratory Care (CoARC).

Commission on Accreditation for Respiratory Care
1248 Harwood Road, Bedford, Texas 76021-4244
(817) 283-2835 (telephone), (817) 354-8519 (fax)

Before enrolling in this program, you must complete certain requirements. In addition to the course prerequisites listed below, this program requires a special Respiratory Care – AAS program application. Once all prerequisites are complete, you can access the program application on the MyPima Academics tab in the Degrees and Programs section.

To participate in the program, you must complete the following requirements by the program orientation date:

- Provide and maintain an Arizona DPS Fingerprint Clearance Card.
- Pass an initial toxicology screening and adhere to the chemical impairment policy.
- Complete a physical within one year of start date.
- Provide proof of immunization or immunity for MMR, Varicella, Hep-B, Tdap, and seasonal influenza.
- Provide proof of a negative two-step TB skin test or negative chest x-ray for TB.
- Maintain health insurance.
- Provide and maintain an American Heart Association Basic Life Support certification.

Important Information on Licensure

- The Arizona State Legislature declares that the practice of respiratory care affects public health, safety, and welfare and should be subject to regulation and control by the Arizona State Board of Respiratory Care. This is in the public interest in order to protect the public from unauthorized practice of respiratory care, and from unprofessional conduct by persons licensed to practice respiratory care. In order to practice as a respiratory therapist you will be required to obtain a state license.

What can I do with this degree?

Credentials: Graduates are eligible to earn the National Board of Respiratory Care certified respiratory therapist (CRT) and registered respiratory therapist (RRT) credential.

Career Options: Respiratory therapists work in hospitals, intensive care units, emergency rooms, sleep laboratories, special-care facilities, doctor's offices, air transport, case management, and other clinical settings caring for cardiopulmonary patients.

Academic Options: This program offers an Associate of Applied Science (AAS) Degree in Respiratory for direct employment as well as a Bachelor of Science in Respiratory Therapy Degree as a Degree Advancement partnership with Northern Arizona University. Go to Pima's Transfer Partnerships (www.pima.edu/current-students/transferring-from-pima/transfer-partnerships.html) page to determine which universities offer BAS programs, and research how the universities may accept this program in transfer.

Department/Contact Information:

Dean: 520-206-6661
Program Director: 520-206-3106

Respiratory Interest Program/Major code: **AOA9ALA/9RTH** - Same requirements as AA in Liberal Arts, General Concentration (AOAALA/ALA1/ALAG). See page 157 for program requirements.

Respiratory Program/Major code: **AASRESPTHERA/RTH1**

Limited Admissions Program: Students must meet the preparatory coursework and any other prerequisites and apply to the program. Depending on available spots, students may be placed on a waiting list before starting the program. See the website or an advisor for details.

Program Prerequisites - These courses are not eligible for Title IV aid.

Students must have completed the following (with grades posted) and the Preparatory Coursework below before they may begin the application process.

International students must score higher than 450 on the institutional TOEFL (Test of English as a Second Language)

MAT 097*or placement into MAT 151 or higher 0-3

Subtotal. **0-3**

Preparatory Coursework - These courses may be eligible for Title IV loans only; see a financial aid specialist.

Students must have completed the following, with a grade of C or higher (with grades posted) before they may begin the application process.

REA 112HP** or REA 112 or a Next Generation Accuplacer Reading score of 256 or higher	0-4
BIO 156IN or BIO 201IH or BIO 201IN or BIO 156 bypass exam score of 70% or higher	0-4
HCA 100 or STU 100	1
Subtotal.	1-9

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	†
WRT 101 fulfills this requirement	
Arts and Humanities Requirement	†
HIS 141 or HUM 260 fulfills this requirement.	
Social and Behavioral Sciences Requirement	†
PSY 101 fulfills this requirement.	
Mathematics and Science Requirement	†
BIO 205IN fulfills this requirement	
Other Requirement	†
WRT 102 fulfills this requirement.	
Special Requirement	†
The C or G requirement is fulfilled with either HIS 141 or HUM 260.	
Subtotal	.0¥

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

HCA 152	Advanced Cardiovascular Life Support	1
RTH 110*	Introduction to Respiratory Therapy	2
RTH 112*	Respiratory Pathophysiology	4
RTH 121/121LB*	Basic Therapeutics/Lab	4
RTH 123/123LB*	Basic Assessment and Monitoring/Lab	4
RTH 124*	Pharmacology for Respiratory Care	3
RTH 135LC*	Clinical Procedures I	4
RTH 156*	Cardiopulmonary Diseases I	3
RTH 162*	Principles of Mechanical Ventilation	3
RTH 241/241LB*	Application of Mechanical Ventilation/Lab	4
RTH 243/243LB*	Advanced Assessment and Monitoring/Lab	4
RTH 245LC*	Clinical Procedures II	4
RTH 251/251LB*	Neonatal and Pediatric Specialty Therapeutics/Lab	5
RTH 255LC*	Clinical Procedures III	4
RTH 256*	Cardiopulmonary Diseases II	2
RTH 257LB*	Clinical Applications and Professional Development	1
Subtotal.		.52

Required Support Courses

HIS 141 or HUM 260	History of the United States I SUN# HIS1131	3
BIO 205IN*	Microbiology SUN# BIO 2205	4
PSY 101	Introduction to Psychology SUN# PSY 1101	3
WRT 101*	English Composition I with a C or better SUN# ENG 1101	3
WRT 102*	English Composition II with a C or better SUN# ENG 1102	3
Subtotal.		.16
Total credits as displayed (not including program prerequisites or preparatory coursework).		.68
Total credits as displayed (including program prerequisites and preparatory coursework)		69-80

† Core or support course(s) fulfill this requirement.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Science — Associate of Science Degree for Transfer

Complete lower-division science and general education requirements for transferring to a university to pursue a major in the life sciences, physical sciences, or engineering. Students interested in preparing for professional degrees in dentistry, medicine or veterinary science also should complete this degree. For the concentrations below, Pima requirements are aligned most closely with those at the University of Arizona. Substitutions are available for students planning to transfer to other schools. See an advisor.

Program/Major/Concentration Code: **AOSASI/ASI1/******

Science — General Concentration

Complete this concentration if you are unsure which Bachelor of Science degree you plan to pursue, or if your major is not included in the other concentrations offered.

What can I do with this concentration?

Academic Options: This program has been designed to match as closely as possible the first two years of a life or physical sciences, computer science, or engineering degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-2180

Contact any campus Student Services office (www.pima.edu/mhtml/email/advising).

Concentration Code: **ASIG**

Arizona General Education Curriculum Requirements (AGEC-S) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts.....	6
Biological and Physical Sciences**	†
The combination of BIO 181IN & 182IN, or CHM 151IN & 152IN, or PHY 210IN & 216IN fulfill this requirement.	
Mathematics.....	†
MAT 220 fulfills this requirement.	
Social and Behavioral Sciences	6
Other Requirement Options.....	†
Complete MAT courses above MAT 220 and/or additional Science courses from the Biological and Physical Sciences list.	
AGEC Special Requirements	
The I, C, and G requirements should be fulfilled by completing appropriate courses in the above categories.	
Subtotal.	18 ¥

Course Number	Course Title	Credit Hours
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Required Core Courses: A grade of C or better is required in all courses for graduation.

BIO 181IN*	General Biology I: (Majors) SUN# BIO 1181	8
and BIO 182IN*	General Biology II: (Majors) SUN# BIO 1182	
or		
CHM 151IN*	General Chemistry I SUN# CHM 1151	
and CHM 152IN*	General Chemistry II SUN# CHM 1152	
or		
PHY 210IN*	Introductory Mechanics SUN# PHY 1121	
and PHY 216IN*	Introductory Electricity and Magnetism SUN# PHY 1131	
MAT 220* Calculus I	SUN# MAT 2220	5
Major/Electives		26-30
Complete appropriate AGECE science, MAT courses numbered 188 or higher, CIS courses, and second language^ courses if needed, to meet major requirements for a bachelor's degree. Must include at least 6 credits of MAT 231 or higher and/or AGECE science courses		

Subtotal. 39-43

Required Support Courses

STU 100	College Success and Career Planning.	1
or STU 107	University Transfer Preparation	
STU 210	Transfer Strategies	2
Subtotal.		3
Total credits as displayed		60-64

† Core or support course(s) fulfill this requirement.

¥ AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** See the university major requirements for selection of the appropriate science course sequence.

^ Bachelor of Science majors at the UA require two semesters of a second language. For some majors it is recommended to take the language courses in the first two years, and others not until the third or fourth year. See the Degree Search pages (<https://degreesearch.arizona.edu/>) for details about the major you plan to pursue.

Associate of Science — Biology Concentration

Study biology and life sciences while preparing to transfer to a 4-year university.

What can I do with this degree?

Career Options: Transfer to a university in a life sciences program.

Academic Options: This program has been designed to match as closely as possible the first two years of a biology degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-2180

Contact any campus Student Services office (www.pima.edu/mhtml/email/advising).

Concentration Code: **ASIB**

Arizona General Education Curriculum Requirements (AGEC-S) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts.	6
Biological and Physical Sciences	†
BIO 181IN and 182IN fulfill this requirement.	
Mathematics.	†
MAT 220 fulfills this requirement.	
Social and Behavioral Sciences	6
Other Requirements	†
CHM 151IN and 152IN fulfill this requirement.	

Special Requirements

The I, C, and G requirements should be fulfilled by completing appropriate courses in the above categories.

Subtotal. 18¥

Required Core Courses - A grade of C or better is required for graduation.

BIO 181IN*	General Biology I SUN# BIO 1181.	4
BIO 182IN*	General Biology II SUN# BIO 1182	4
CHM 151IN*	General Chemistry I SUN# CHM 1151.	4
CHM 152IN*	General Chemistry II SUN# CHM 1152	4
CHM 235IN*	General Organic Chemistry I SUN# 2235.	4
CHM 236IN*	General Organic Chemistry II SUN# 2236	4
MAT 220*	Calculus I SUN# MAT 2220	5
MAT 231*	Calculus II SUN# MAT 2230.	4
Subtotal.		33

Required Support Courses

PHY 121IN*	Introductory Physics I	SUN# PHY 1111	4
or	First Semester Language Course*^		
PHY 122IN*	Introductory Physics II	SUN# PHY 1112	4
or	Second Semester Language Course*^		
STU 100	College Success and Career Planning		1
or	STU 107	University Transfer Preparation	
STU 210	Transfer Strategies		2
Subtotal.			11
Total credits as displayed			62

† Core or support course(s) fulfill this requirement.

¥ The AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

^ Bachelor of Science majors at the UA require two semesters of a second language. For some majors it is recommended to take the language courses in the first two years, and others not until the third or fourth year. See the Degree Search pages (<https://degreesearch.arizona.edu/>) for details about the major you plan to pursue.

Associate of Science — Chemistry Concentration

Study chemistry while preparing to transfer to a 4-year university.

What can I do with this degree?

Career Options: Transfer to a university in a chemistry sciences program.

Academic Options: This program has been designed to match as closely as possible the first two years of a chemistry degree at the University of Arizona. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-2180

Contact any campus Student Services office (www.pima.edu/mhtml/email/advising).

Concentration Code: **ASIC**

Arizona General Education Curriculum Requirements (AGEC-S) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts	6
Biological and Physical Sciences	†
CHM 151IN and 152IN fulfill this requirement.	
Mathematics	†
MAT 220 fulfills this requirement.	
Social and Behavioral Sciences	6
Other Requirements	†
CHM 235IN and 236IN fulfill this requirement.	
Special Requirements	
The I, C, and G requirements should be fulfilled by completing appropriate courses in the above categories.	
Subtotal.	12¥

Required Core Courses - A grade of C or better is required for graduation.

CHM 151IN*	General Chemistry I	SUN# CHM 1151	4
CHM 152IN*	General Chemistry II	SUN# CHM 1152	4
CHM 235IN*	General Organic Chemistry I	SUN# 2235	4
CHM 236IN*	General Organic Chemistry II	SUN# 2236	4
MAT 220*	Calculus I	SUN# MAT 2220	5
MAT 231*	Calculus II	SUN# MAT 2230	4
PHY 210IN*	Introductory Mechanics	SUN# PHY1121	4
PHY 216IN*	Introductory Electricity and Magnetism	SUN# PHY 1131	4
CHM 295LB	Independent Research in Chemistry		1
Subtotal.			34

Required Support Courses

BIO	181IN* [†]	General Biology I	SUN# BIO 1181	4
or	MAT 241* [†]	Calculus III	SUN# MAT 2241	
or	MAT 262* [†]	Differential Equations	SUN# MAT 2262	
or	First Semester Language Course* [†]			
BIO	182IN* [†]	General Biology II	SUN# BIO 1182	3-4
or	MAT 241* [†]	Calculus III	SUN# MAT 2241	
or	MAT 262* [†]	Differential Equations	SUN# MAT 2262	
or	Second Semester Language Course* [†]			
STU	100	College Success and Career Planning		1
or	STU 107	University Transfer Preparation		
Subtotal				8-9
Total credits as displayed				60-61

[†] Core or support course(s) fulfill this requirement.

[‡] The AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

[^] Bachelor of Science majors at the UA require two semesters of a second language. For some majors it is recommended to take the language courses in the first two years, and others not until the third or fourth year. For details about the major you plan to pursue see the Degree Search pages <https://degreesearch.arizona.edu/>.

Associate of Science — Pre-Engineering Concentration

Prepare to transfer to a university to complete a bachelor's degree in engineering.

What can I do with this concentration?

Academic Options: This program has been designed to match as closely as possible the first two years of an engineering degree[^] at any of the Arizona State Universities. Students planning to transfer to another university should meet with an advisor to complete a transfer plan.

Department/Contact Information:

Dean: 520-206-2180

Lead Faculty: 520-206-6679

Concentration Code: **ENGR**

Arizona General Education Curriculum Requirements (AGEC-S) - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

English Composition	6
Humanities and Fine Arts	6
Biological and Physical Sciences	†
The combination of CHM 151IN & 152IN or PHY 210IN & 216IN fulfill this requirement.	
Mathematics	†
MAT 220 fulfills this requirement.	
Social and Behavioral Sciences	6
Other Requirements	†
MAT 231 and MAT 241 fulfill this requirement	
AGEC Special Requirements	
The I, C, and G requirements should be fulfilled by completing appropriate courses in the above categories.	
Subtotal	18 ‡

Course Number	Course Title	Credit Hours
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Required Core Courses: A grade of C or better is required in all courses for graduation.

CHM	151IN*	General Chemistry I	SUN# CHM 1151	4
ENG	102IN*	Problem-Solving and Engineering Design	SUN# EGR 1102	3
MAT	220*	Calculus I	SUN# MAT 2220	5
MAT	231*	Calculus II	SUN# MAT 2230	4
MAT	241*	Calculus III	SUN# MAT 2241	4
PHY	210IN*	Introductory Mechanics	SUN# PHY 1121	4

CHM 152IN	General Chemistry II	SUN# CHM 1152	4
or PHY 216IN	Introductory Electricity and Magnetism	SUN# PHY 1131	
Engineering Electives**			11-15
Select transfer courses from university requirements for the specific branch of Engineering that you plan to pursue. Consult with Department faculty or use one of the university web sites below for assistance in selecting appropriate courses from the subjects below: BIO, CHM, CIS, ENG, GLG, MAT, or PHY			
Subtotal.			39-43

Required Support Courses

STU 100	College Success and Career Planning	1
or STU 107	University Transfer Preparation	
STU 210	Transfer Strategies	2
Subtotal.		3
Total credits as displayed		60-64

† Core or support course(s) fulfill this requirement.

¥ The AGEC requires 35 credits. This subtotal shows the AGEC credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** CHM 151IN and PHY 201IN are required for all Engineering majors at the UA. Choose the appropriate CHM or PHY course to meet AGEC-S Biological & Physical Science requirements. Some of the UA Engineering degrees require concurrent enrollment in the 3rd and 4th semesters. See an advisor or major guide to complete the required courses in the appropriate sequence to complete this degree in a timely manner.

^ ASU: <https://engineering.asu.edu/advising/>; NAU: <https://nau.edu/cefns/engineering/>; UA: <http://www.advising.arizona.edu> or <http://engineering.arizona.edu> or see the UA's Degree Search for specific course information: <http://degreesearch.arizona.edu>

Social Services

Gain knowledge and skills for employment in social service organizations that provide community services including service delivery, community outreach and intervention.

Social Services — Associate of Applied Science Degree for Direct Employment

Learn core principles and skills in social work, community services and casework management.

What can I do with this degree?

Career Options: Entry-level employment in social service positions.

Academic Options: Students intending to transfer to a four-year university should pursue the Social Services Associate of Arts degree.

Department/Contact Information:

Dean: 520-206-7666

Lead Faculty: 520-206-6958

Program/Major Codes: **AASSOCIALSRV/SSE1**

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	†
WRT 101 fulfills this requirement	
Arts and Humanities Requirement	3
Recommend: PHI 101 or 130	
Social and Behavioral Science Requirement	3
Recommend: ECN 150, PSY 101, or SOC 101	
Mathematics and Science Requirement	3-4
Recommend: BUS 151, BIO 156IN, or BIO 160IN	
NOTE: The Math Competency must be met.	
Other Requirement	3
Recommend: ANT 112 or HIS/MAS/ANT 127	
Special Requirement	
The C or G requirement should be fulfilled by completing an appropriate course in the above categories.	
Subtotal.	12-13

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

SSE 110	Introduction to Social Welfare	3
SSE 111	Group Work	3
SSE 205	Case Report Writing and Documentation	3
SSE 210*	Community Organization and Development	3
SSE 281*	Social Service Delivery Systems (was SSE 212)	3
SSE 285*	Foundations of Social Work Practice (was SSE 202)	3
SSE 292*	Social Services Field Experience	4
SSE Electives		9
Complete 9 credits from the following: SSE 121, SSE 160, SSE 211, or SSE 242		
Subtotal.		31

Required Support Courses

WRT 101	English Composition I	3
WRT 102	English Composition II	3
Electives - Complete 11-13 credits so the total credits for the degree are 60-62.		11-13
Please see an advisor to select appropriate course work.		
Subtotal.		17-19

Total credits as displayed 60-62

¥ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Associate of Arts Degree for Transfer - Social Services Concentration

See the Liberal Arts section for details on the degree requirements.

Social Services Substance Use Disorder Specialty — Associate of Applied Science Degree for Direct Employment

Learn principles and skills in social work with an emphasis on drug and alcohol treatment and prevention.

What can I do with this degree?

Career Options: Entry-level employment in positions providing substance use disorder services and related community outreach.

Academic Options: Students intending to transfer to a four-year university should pursue the Social Services AA degree.

Department/Contact Information:

Dean: 520-206-7666

Lead Faculty: 520-206-6958

Program/Major Codes: **AASSUBSTABUS/SSS**

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	†
WRT 101 fulfills this requirement	
Arts and Humanities Requirement	3
Recommend: PHI 101 or 130	
Social and Behavioral Science Requirement	3
Recommend: ECN 150, PSY 101, or SOC 101	
Mathematics and Science Requirement	3-4
Recommend: BUS 151, BIO 156IN, or BIO 160IN	
NOTE: The Math Competency must be met.	
Other Requirement	3
Recommend: ANT 112 or HIS/MAS/ANT 127	
Special Requirement	
The C or G requirement should be fulfilled by completing an appropriate course in the above categories.	
Subtotal.	12-13¥

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

SSE 110	Introduction to Social Welfare	3
SSE 111	Group Work	3
SSE 121	Study of Substance Use Disorders	3
SSE 123	Prevention of Substance Use Disorders	3
SSE 205	Case Report Writing and Documentation	3
SSE 210*	Community Organization and Development	3
SSE 220	Treatment of Substance Use Disorders	3
SSE 222	Political, Legal and Ethical Aspects of Substance Use	3
SSE 224	Substance Use Disorders Among Diverse and Special Needs Populations	3
SSE 281*	Social Service Delivery Systems (was SSE 212)	3
SSE 285*	Foundations of Social Work Practice (was SSE 202)	3
SSE 292*	Social Services Field Experience	4

SSE Elective	3
Subtotal.	40

Required Support Courses

WRT 101	English Composition I	SUN# ENG 1101	3
WRT 102	English Composition II	SUN# ENG 1102	3
Electives			2-5
Please see an advisor to select appropriate course work.			
Subtotal.			8-11
Total credits as displayed			60-64

¥ General Education requires 19-21 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Basic Social Services Certificate for Direct Employment

Gain skills and knowledge in dealing with social welfare, service agencies and community groups and the needs of individual clients.

What can I do with this certificate?

Career Options: Enhance employment and promotion opportunities in industry, business and human services.

Academic Options: Pursue other Social Services certificates or a Social Services degree.

Gainful Employment Information: www.pima.edu/ge-crtsocialsrv

Department/Contact Information:

Dean: 520-206-7666

Lead Faculty: 520-206-6958

Program/Major Codes: **CRTSOCIALSRV/SSC**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
SSE 110	Introduction to Social Welfare	3
SSE 111	Group Work	3
SSE 205	Case Report Writing and Documentation	3
SSE 210*	Community Organization and Development	3
SSE 281*	Social Service Delivery Systems (was SSE 212)	3
SSE 285*	Foundations of Social Work Practice (was SSE 202)	3
Total credits as displayed		18

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Social Services Substance Use Disorders — Certificate for Direct Employment

Understand drug and alcohol abuse and treatment methods.

What can I do with this certificate?

Career Options: Seek employment or promotion in agencies that provide substance abuse intervention for substance use disorders.

Academic Options: Pursue other Social Services certificates or a Social Services degree.

Gainful Employment Information: www.pima.edu/ge-crtsubstabus

Department/Contact Information:

Dean: 520-206-7666

Lead Faculty: 520-206-6958

Program/Major Codes: **CRTSUBSTABUS/SSA**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
SSE 110	Introduction to Social Welfare	3
SSE 121	Study of Substance Use Disorders	3
SSE 123	Prevention of Substance Use Disorders	3
SSE 220*	Treatment of the Substance Use Disorders	3
SSE 222*	Political, Legal and Ethical Aspects of Substance Use	3
SSE 285*	Foundations of Social Work Practice (was SSE 202)	3
Total credits as displayed		18

* This course has a prerequisite, co-requisite or recommendation. See course description section.
 Inactivated Dec '18 CCC - Eff 202009

Therapeutic Massage

Therapeutic Massage — Certificate for Direct Employment

Learn techniques to alleviate chronic pain, reduce stress, strengthen the immune system, and promote healing through therapeutic massage. Program includes clinical practice in a professional atmosphere and prepares students for the national therapeutic massage and bodywork exam and state licensure.

Before enrolling in this program, you must meet certain requirements.

- Be at least eighteen years old.
- Must have a high school diploma or GED.
- Attend a Therapeutic Massage Program orientation session.
- Complete advising session with Therapeutic Massage faculty.
- Submit application form by due date.
- Complete health declaration, immunizations, drug screening and fingerprinting.
- Obtain an Arizona DPS Fingerprint Clearance Card.
- Be able to perform a number of physical activities in the clinical portion of the program. At a minimum, students will be required to lift patients, stand for several hours at a time and perform bending activities. Students must be able to lift, carry, set up and take down massage tables and chairs. The clinical experience also places students under considerable mental and emotional stress as they undertake responsibilities and duties impacting clients' wellness. Students must be able to demonstrate rational and appropriate behavior in day-to-day situations and under stressful conditions. Students will be required to receive massage which results in increased local and systemic circulation, increased venous return, relaxed muscles and overall relaxation. Individuals should give careful consideration to the mental and physical demands of the program prior to making application.
- Present proof of immunization or immunity for MMR/Varicella/Hep-B.
- Show proof of negative TB skin test or negative chest x-ray for TB.
- Pass a urine toxicology screening exam.
- Maintain health insurance and a CPR card at the Health Care Provider Level throughout the program.
- Complete prerequisite coursework with a grade of C or better prior to entry into the Massage Therapy Practice courses.

What can I do with this certificate?

Career Options: Work as a massage therapist in a variety of wellness, medical and corporate facilities, on cruise ships or as a private practitioner.

Gainful Employment Information: www.pima.edu/ge-crttma

Department/Contact Information:

Dean: 520-206-6916

Lead Faculty: 520-206-2263

Conditional Program/Major Codes: **CRTTMA/9TMC**

Conditional Enrollment Program: You will be eligible to enroll in TMA courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
TMA 101	Introduction to Massage Therapy	2
TMA 120	Professionalism and Ethics for Massage Therapists	2
TMA 201IN*	Therapeutic Massage Practice I	6
TMA 202IN*	Therapeutic Massage Practice II	6
TMA 202LC*	Therapeutic Massage Practice Clinical Lab I	1
TMA 210*	Fundamentals of Kinesiology	3
TMA 215*	Introduction to Pathology for Massage and Bodywork	3
TMA 222*	Business Management for Massage and Bodywork	2
TMA 290LC*	Therapeutic Massage Clinical	3
TMA 291*	Therapeutic Massage Internship	1
WED 110	Introduction to Complementary and Alternative Medicine	3

WED 111	Self Care for Personal Wellness	2
Subtotal.		34

Required Support Courses

BIO 160IN**	Introduction to Human Anatomy and Physiology	4
MAT 106***	Elementary Data Analysis with Spreadsheets	2
STU 100	College Success and Career Planning	1
WRT 101*	English Composition I SUN# ENG 1101	3
Subtotal.		10
Total credits as displayed		44

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

** BIO 201IN, 201IH, 202IN, or 203IN may substitute for BIO 160IN.

*** Any MAT class 100 or higher may substitute for MAT 106.

Translation and Interpretation

Translation and Interpretation Studies — Certificate for Direct Employment

Develop your skills in Spanish-English and English-Spanish written translation in the health care, legal, literary and business fields. Courses include both hands-on and theoretical classes, as well as internship opportunities.

Before enrolling in this program, you must score a minimum of 601 on the Spanish WebCAPE (Computerized Adaptive Placement Test) – see <http://www.perpetualworks.com/webcape/overview>.

What can I do with this certificate?

Career Options: Translate written documents between English and Spanish.

Academic Options: Continue your studies by completing the Associate of Arts in Liberal Arts, Translation and Interpretation concentration.

Gainful Employment Information: www.pima.edu/ge-crttranslate

Department/Contact Information:

Dean: 520-206-7134

Lead Faculty: 520-206-7274

Conditional Program/Major Concentration Codes: **CRTTRANSLATE/9TRS**

Conditional Enrollment Program: You will be eligible to enroll in TRS courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information. Program Coordinator: 206-5302

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
TRS 101	Introduction to Translation and Interpretation	3
TRS 120IN	Technology for Translation and Interpretation	2
TRS 160	Translation in Specialty Areas	4
TRS 161	Medical Spanish/English Interpreting	3
TRS 162	Introduction to Legal Spanish/English Interpretation	3
TRS 202	Interpretation Techniques	3
TRS 270	Simultaneous Interpretation	4
TRS 282	Advanced Project in Translation	4
Total credits as displayed		26

AA in Liberal Arts — Translation and Interpretation Studies Concentration

See the Liberal Arts section for details on the degree requirements.

Truck Driver Training

Become a professional truck driver and prepare for commercial license tests.

Class A Vehicle Driver — Certificate for Direct Employment

Learn the basics of vehicle operation, commercial driver's license requirements, and driving maneuvers. Classes include driving time.

Before you enroll you must: meet admission requirements as outlined by the Truck Driver Training Program

What can I do with this certificate?

Career Options: Driver trainee or co-driver

Department/Contact Information:

Dean: 520-206-6424

Lead Faculty: 520-206-2744

Conditional Program/Major Codes: **CRTTRUCKCLSA/9TDA**

Conditional Enrollment Program: You will be eligible to enroll in TDT courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information..

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
TDT 118	Basic Vehicle Operations and Commercial Driver's License Req	5
TDT 119*	Basic Driving Maneuvers – Class A CDL	3.5
Total credits as displayed		8.5

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Coach/Transit Bus Driver — Certificate for Direct Employment

Gain basic knowledge of coach and transit bus driving. Classes include driving time.

Before you enroll you must: meet admission requirements as outlined by the Truck Driver Training Program

What can I do with this certificate?

Career Options: Coach/Transit Bus driver

Department/Contact Information:

Division Dean: 520-206-6321

Lead Faculty: 520-206-2744

Program/Major Codes: **CRTTRUCKBUS/9TDB**

Conditional Enrollment Program: You will be eligible to enroll in TDT courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
TDT 116	Basic Vehicle Operations - Coach/Transit Bus	3
TDT 117	Basic Driving Maneuvers - Coach/Transit Bus	3
Total credits as displayed		6

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Veterinary Technology (Veterinary Nursing)

Learn to provide veterinary care to animals and how to work in the front office area of veterinary practices.

Veterinary Practice Assistant — Certificate of Direct Employment

Learn how to work in the front office area of veterinary practices. This certificate focuses on medical concepts and communication skills in a veterinary practice.

What can I do with this certificate?

Career Options: Work in the front office area of veterinary practices.

Academic Options: Transfer 6 credits of this certificate to the Associate of Applied Science Degree in Veterinary Nursing.

Department/Contact Information:

Dean: 520-206-7694

Program Director: 520-206-7414

Program/Major Code: **CRTVEP/VEP**

Course Number	Course Title	Credit Hours
Required Core Course - A grade of C or better is required for graduation.		
VET 106*	Veterinary Practice Assistant I	3
VET 107*	Veterinary Practice Assistant II	3
VET 108*	Introduction to Veterinary Facility Practices	6
Total credits as displayed		12

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Veterinary Technician — Associate of Applied Science Degree for Direct Employment

Learn to provide veterinary care to animals, including nutrition, nursing, anesthesiology, radiography and clinical laboratory procedures. Gain practical experience in clinic settings. This program is accredited by the American Veterinary Medical Association.

Before enrolling in this program, in addition to the program prerequisites listed below you must meet certain requirements:

- Meet the requirements for admission as a credit student at Pima Community College.
- Have program prerequisites completed with the grade of C or higher.
- Have proof of personal medical insurance. Student health insurance is available through Pima. If you are not able to obtain insurance under your parents' or an employer's policy, student insurance coverage may be available to you from various carriers.
- Have proof of immunizations: pre-exposure rabies vaccination series and tetanus toxoid. Proof of tetanus toxoid in the last 8 years. Rabies immunizations will need to be completed while in the program.
- Complete program admissions procedures. Submit a Program Admission Form.
- Be able to meet physical requirements of lifting at least forty pound animals; restraining dogs, cats, exotic animals, horses, cows, birds, etc.; standing for long periods of time; bending and lifting; having manual dexterity to assist in surgery and having ability to communicate with veterinarians and clients. This is a physically demanding occupational field.

NOTE: VET courses have reading and math prerequisites: REA 091 (or higher) or placement into REA 112; and MAT 095, 097, Module 35 in MAT 08, or placement into MAT 151 or higher.

What can I do with this degree?

Career Options: Work as a certified veterinary technician for veterinarians, biological research workers, scientists and business or organizations that provide care for animals. After completion of the program, students apply to take state and national board exams for certification.

Academic Options: While this program was not designed to transfer to a 4-year university, it may apply toward Bachelor of Applied Science (BAS) or other programs. See Pima's Transfer Partnerships (www.pima.edu/current-students/transferring-from-pima/transfer-partnerships.html) page to determine which universities offer BAS programs, and research how the universities may accept this program in transfer.

Department/Contact Information:

Dean: 520-206-7694

Program Director: 520-206-7414

Conditional Program/Major Codes: AASVETTECH/9VET

Conditional Enrollment Program: You will be eligible to enroll in VET courses once you have completed the requirement listed above and the Department has authorized your enrollment. See the program director or advisor for more information.

Program Prerequisites

Students must have completed the following, with a grade of C or higher (with grades posted) before they may begin the application process.

REA 091* or placement into REA 112.	0-4
MAT 095* or 097* or Module 35 in MAT 089A or 089B, or higher MAT, or placement into MAT 151 or higher	0-3
Subtotal.	0-7

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	†
WRT 101 fulfills this requirement.	
Arts and Humanities Requirement	3
Social and Behavioral Sciences Requirement	3
Mathematics and Science Requirement	†
MAT 142 or higher fulfills this requirement.	
Other Requirement	†
BIO 156IN or 181IN fulfills this requirement	
Special Requirement	
The C or G requirement should be fulfilled by completing an appropriate course in the above categories.	
Subtotal.	.6¥

Course Number	Course Title	Credit Hours
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Required Core Courses - A grade of C or better is required for graduation.

VET 100*	Introduction to Veterinary Technology	3
VET 110*	Veterinary Nursing Procedures I	3
VET 111*	Veterinary Nursing Procedures II	3
VET 120*	Clinical Pathology I	3
VET 121*	Clinical Pathology II	3
VET 130*	Animal Anatomy and Physiology I	4
VET 131*	Animal Anatomy and Physiology II	3
VET 150*	Pharmacology	3
VET 191*	Veterinary Technician Clinical Experience I	3
VET 200*	Anesthetic and Surgical Nursing	2
VET 200LB*	Anesthetic and Surgical Nursing Lab	1
VET 205*	Radiology and Imaging Techniques	2
VET 205LB*	Radiology and Imaging Techniques Lab	1
VET 210*	Veterinary Nursing Procedures: Large Animal Care	1
VET 210LB*	Veterinary Nursing Procedures Lab: Large Animal Care	1
VET 211*	Veterinary Nursing Procedures: Avian, Exotic, and Lab Animals	1
VET 211LB*	Veterinary Nursing Procedures Lab: Avian, Exotic, Lab Animals	1
VET 220*	Clinical Pathology III	3
VET 225*	Veterinary Hospital Procedures	3
VET 291*	Veterinary Technician Clinical Experience II	3
Subtotal.		47

Required Support Courses

BIO 156IN* ^Δ	Introductory Biology for Allied Health	4
or BIO 181IN* ^Δ	General Biology I: (Majors) SUN# BIO 1181	

CHM 130IN* ^Δ	Fundamental Chemistry SUN# CHM 1130	4
or CHM 151IN* ^Δ	General Chemistry SUN# CHM 1151	
STU 100	College Success and Career Planning.....	1
WRT 101	English Composition I SUN# ENG1101	3
Subtotal.		12
Total credits as displayed (not including program prerequisites)		65
Total credits as displayed (including program prerequisites)		65-72

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

† Preparatory coursework, core, or support course(s) fulfill this requirement.

‡ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

Δ Biology and Chemistry within the last eight years with a C or better, or met by assessment. If Biology or Math are met through assessment, additional courses will be needed to fulfill the General Education Mathematics and Science Requirement and/or the Other Requirement; see advisor for guidance.

Welding

Welding and Fabrication— Associate of Applied Science Degree for Direct Employment

Learn various welding and pipe fabrication techniques.

What can I do with this degree?

Career Options: Entry-level employment as a welder.

Academic Options: While this program was not designed to transfer to a 4-year university, it may apply toward Bachelor of Applied Science (BAS) or other programs. See Pima's Transfer Partnerships (www.pima.edu/current-students/transferring-from-pima/transfer-partnerships.html) page to determine which universities offer BAS programs, and research how the universities may accept this program in transfer.

Department/Contact Information:

Dean: 520-206-7134

Lead Faculty: 520-206-7159

Program/Major Codes: **AASWELDING/WLD**

General Education Requirements - A grade of C or better is required for graduation.

Course lists for each General Education category listed below can be found starting on page 49.

Communication Requirement	3
Recommend: GTW 101	
Arts and Humanities Requirement	3
Social and Behavioral Sciences Requirement	3
Recommend ANT/ARC 205 or HIS 101	
Mathematics and Sciences	3
Recommend: GTM 105	
Other Requirements	3
Recommend: CMN 120	
Special Requirement	
Recommend: CMN 120	
Subtotal.	15

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
MAC 275*	Applied Metallurgy	4
WLD 110	Basic Arc and Oxyacetylene Welding	4
WLD 115*	Blueprint Reading/Estimating	4
WLD 160*	Arc Welding	4
WLD 250*	Pipe Welding	4
or WLD 264* ^Δ	Introduction to CNC Plasma Arc and Basic Robotic Welding	
WLD 261	Gas Metal Arc Welding	4
WLD 262*	Gas Tungsten Arc Welding	4
WLD 263*	Layout and Fabrication Welding	4
Subtotal.		32

Required Support Courses

CAD 101	Computer-Aided Drafting.....	4
STU 100	College Success and Career Planning.....	1
Technical Electives	.....	9
Complete 9 credit hours from the following: BCT, CAD, CSA, MGT, MAC, WLD.		
Subtotal.		14
Total credits as displayed		61

† Core or support course(s) fulfill this requirement.

‡ General Education requires a minimum of 15 credits. This subtotal shows the Gen Ed credits not fulfilled by core or support courses.

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Δ WLD 264A and 264B combined are equivalent to WLD 264, and together may be substituted for WLD 264.

Basic Welding Certificate for Direct Employment

Learn Shielded Metal Arc Welding skills and processes used in construction or other field welding applications

What can I do with this degree?

Career Options: Entry-level employment in fields requiring welding.

Academic Options: Pursue a Fabrication Welding Certificate and/or a Welding and Fabrication Associate of Applied Science Degree.

Gainful Employment Information: www.pima.edu/ge-crtwlb

Department/Contact Information:

Dean: 520-206-7134

Lead Faculty: 520-206-7159

Program/Major Codes: **CRTWLB/WLB**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
GTM 105*	Applied Technical Mathematics.....	3
STU 100	College Success and Career Planning.....	1
WLD 110	Basic Arc and Oxyacetylene Welding.....	4
WLD 115*	Blueprint Reading/Estimating.....	4
WLD 160*	Arc Welding.....	4
Total credits as displayed		16

* This course has a prerequisite, co-requisite, or recommendation. See course description section.

Fabrication Welding - Certificate for Direct Employment

Courses prepare students for entry-level positions in Shielded Metal Arc Welding (SMAW), Gas Tungsten Arc Welding (GTAW), Gas Metal Arc Welding (GMAW), and Flux Core Arc Welding (FCAW). Students who complete this certificate have demonstrated advanced skills in all aspects of welding, such as structural fabrication, ornamental, and working with exotic metals.

What can I do with this degree?

Career Options: Entry-level employment in fields requiring welding and/or gas arc welding.

Academic Options: Pursue a Welding and Fabrication Associate of Applied Science Degree.

Gainful Employment Information: www.pima.edu/ge-crtwlf

Department/Contact Information:

Dean: 520-206-7134

Lead Faculty: 520-206-7159

Program/Major Codes: **CRTWLF/WLF**

Course Number	Course Title	Credit Hours
Required Core Courses - A grade of C or better is required for graduation.		
Basic Welding Certificate.....		16
WLD 261	Gas Metal Arc Welding.....	4
WLD 262	Gas Tungsten Arc Welding.....	4
WLD 263	Layout and Fabrication Welding.....	4
Total credits as displayed		28

* This course has a prerequisite, co-requisite, or recommendation. See course description section.