- This project received $10,000,000 (100% of its total cost) from a grant awarded under the Trade Adjustment Assistance Community College and Career Training (TAACCCT) Grants, as implemented by the US Department of Labor's Employment and Training Administration.
- TAACCCT is an equal opportunity employer/program and auxiliary aids and services are available upon request to individuals with disabilities.
- This tool was created in order to fulfill the requirements of the TAACCCT 4 grant. AZ Ramp Up products by Eastern Arizona College are licensed under a Creative Commons Attribution 4.0 International License. This workforce product was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The U.S. Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.

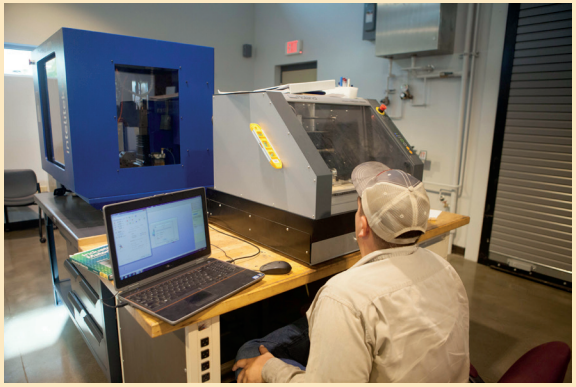
WELDING TECHNOLOGY - AAS (EAC)

The Welding Technology AAS degree provides state-of-the-art training for the next generation of welding technicians. EAC's program gives students the following skills: welding and metal fabrication techniques; welding, brazing, cutting and soldering techniques; industrial machinery repair and maintenance techniques; modern industry welding processes; and, exam preparation for industry certifications. Additionally, this program develops career skills such as literacy, numeracy, and communication.

APPLIED LEADERSHIP - BAS (ASU)

This BAS program prepares students for leadership positions in a wide variety of organizations and career fields. The concentration in applied leadership provides a valuable degree pathway for students with Associate of Applied Science degrees in fields such as fire science, environmental technology, machine shop technology, and welding technology. Students learn leadership skills necessary to prepare them to become effective leaders in diverse environments — applying those skills as team leaders, floor managers and shift captains.

The concentration in applied leadership focuses on the practice of innovative and effective leadership and helps students develop the skills and knowledge that leaders need to solve problems, communicate effectively, resolve conflicts, assess program effectiveness, lead projects, and manage resources.



INTERESTED? CONTACT US!

ADVANCED MANUFACTURING TECHNOLOGY INSTRUCTOR

Nathan McCray
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PUBLIC ANNOUNCEMENT

This project received $10,000,000 (100% of its total cost) from a grant awarded under the Trade Adjustment Assistance Community College and Career Training (TAACCCT) Grants, as implemented by the U.S. Department of Labor's Employment and Training Administration.

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GOOD ANSWER

ADVANCED MANUFACTURING TECHNOLOGY

AAS TO BAS TRACK

ADVANCED MANUFACTURING TECHNOLOGY

This academic guide helps students achieve an Applied Associate Degree at Eastern Arizona College and then smoothly transition into the Bachelor of Applied Sciences, Applied Leadership Degree at Arizona State University. Both degrees can be earned at Eastern Arizona College's Thatcher Campus.

WHAT ARE THE BENEFITS?

- Students are provided a path to follow to meet their educational and career goals.
- Students may receive an Associate of Applied Science degree that will easily transfer into an Arizona State University Bachelor of Applied Science Degree.
- Students have the potential to earn an Arizona State University degree on Eastern Arizona College's campus at a reduced tuition rate.
- Helps students avoid taking unnecessary college courses, saving time and money.

POTENTIAL CAREERS AND SALARIES

CNC Machine Tool Operator	$37,880
Manufacturing Production Technician	$62,330
Industrial Production Manager	$97,140
CNC Machine Tool Programmer	$50,580
Lathe Machine Tool Setter & Operator	$38,480
Production & Operating Supervisor	$57,780
Machinist	$41,700
Mechanical Engineering Technologist	$62,330
Manufacturing Engineering Technologist	$62,330
Operations Manager	$99,310

The Advanced Manufacturing Technology to Bachelor of Applied Science, Applied Leadership									Certificates/Degrees
	Eastern Arizona College				Arizona State University				
	Advanced Manufacturing Technology AAS Degree				Applied Leadership BAS				AAS Degree, Advanced Manufacturing Technology
Grade	Freshman		Sophomore		Junior		Senior		Fab Lab Technician Certificate
	Semester 1	Semester 2	Semester 1	Semester 2	Fall 1	Spring 1	Fall 2	Spring 2	Manufacturing and Design Tech Certificate
English		ENG 101 (3c)		ENG 102 (3c)					Manufacturing Eng. Technician Certificate
Math			MAT 140 (3c)						BAS Applied Leadership
Other General Ed	AGEC (4c)	AGEC (4c)	AGEC (9c)	AGEC (9c)					
Major Courses	AMT 102 (3c)	AMT 111 (3c)	ELT 110 (3c)	AMT 240 (3c)	OMT 343 (3c)	OGL 320 (3c)	OGL 350 (3c)	BIS 340 (3c)	
	AMT 104 (3c)	AMT 220 (4c)	DRF 160 (3c)		BIS 345 (3c)	TEM 431 (3c)	TMC 330 (3c)	OGL 481 (3c)	
	AMT 110 (2c)	DRF 150 (1c)		Curr. Req. Elec. (3c)	BIS 360 (3c)	OGL 355 (3c)	OMT 402 and/or BIS 340 (3c or 6c)	OGL 482 (3c)	
	DRF 154 (3c)	DRF 220 (3c)			BIS 343 (3c)	BIS 340 (3c)		OGL 300 (3c)	
	WLD 108 (3c)	TEC 112 (2c)							
	TEC 133 (1c)								
EAC Credit Hours	19	20	18	18					75
ASU Credit Hours					12	12	9-12	12	45-48
			75 EAC Transfer Credits				45-48 ASU Credits		**120 Total Credits**

NOTES:
*The EAC/AAS degree must be completed prior to admission into the ASU/BAS program
*Additional AGEC-A credits may be completed at EAC after admission to the ASU/BAS program
*The AGEC-A must be completed prior to graduation from the ASU/BAS program

EAC Courses

AMT 102	Materials for Industry	3
AMT 104	Machining and Fabrication	3
AMT 110	Introduction to Fab Lab Technologies	2
AMT 111	Fab lab Workshop I	3
AMT 220	Advanced Manufacturing Methods	3
AMT 240	Advanced Manufacturing Production Processes	3
DRF 150	Dimensioning & Tolerancing	1
DRF 154	Introduction to AutoCAD	3
DRF 160	Descriptive Geometry	3
DRF 220	Parametric Solid Modeling	3
ELT 110	Electricity and Electronics	3
WLD 108	Welding and Fabrication	3
TEC 112	Basic Hydraulics and Pneumatics	2
TEC 133	Safety for Industry	1
Related	**Curriculum**	**4**
ENG 101	Written Communications I	3
ENG 102	Written Communications II	3
MAT 140	College Math (or higher)	3
AGEC	**Additional classes needed to complete AGEC -A**	**26**
Total EAC Credits		**75**

ASU Courses

BIS 343	Social Processes In Organizations
BIS 360	Interdisciplinary leadership
BIS 345	Organizational Ethics
OMT 343**	Occupational Safety & Ergonomics
OGL 320	Foundations Of Project Management
OGL 355	Leading Organizational Innovation & Change
TEM 431**	Innovation Management
BIS 340*	Org. Skills Leading Service Excellence
OGL 350	Diversity & Organizations
TMC 330**	Leading The Enterprise
OMT 402**	Legal Issues For Technologists
(BIS 340*)	Language of Organizations (Optional)
OGL 481	Pro-Seminar I
OGL 482	Pro-Seminar II
BIS 340*	Org. Skills – Writing for the Professions
OGL 300	Theory and Practice of Leadership

* BIS 340 is listed multiple times with different special topics each time

** Indicates an online class

Total ASU Credits **45-48**