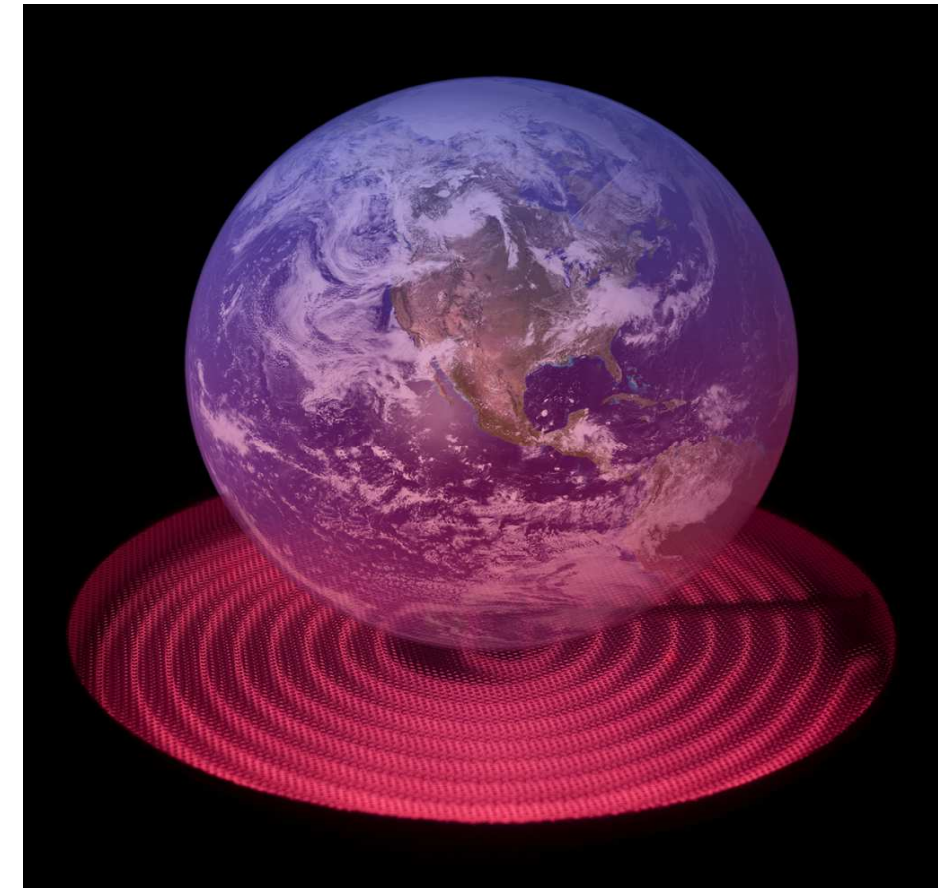


Career Pathway
Associate in Applied Science Degree in Air Conditioning & Refrigeration

Program Purpose: Graduates will demonstrate (1) basic knowledge in air conditioning and refrigeration that will prepare them to obtain an entry-level position within the field and (2) competency in communication, critical thinking, quantitative analysis, and technological applications.

Program Description: Provides the students with the essential skills required to enter this fast-growing field which includes both heating and cooling. The student attains the technical knowledge associated with each type of refrigeration system, their uses, and their controlling devices. This program includes troubleshooting, maintenance, motors, as well as study of related electrical controlling devices and safety related to the use of refrigerants.

What's **your** career path?



Related Degree Programs
<p><u>Ferris State University (Out-of-State)</u> Bachelor of Science (B.S.) in HVAC - R Engineering Technology</p> <p><u>BECOME A BUSINESS OWNER!!!</u></p>

Related Occupations Based on Level of Education	
Community College or Technical School	Air Conditioning Mechanic & Installer
4-yr College or University	Engineer or Plant Supervisor
Salary Range	\$24,000 - \$60,000 a year

Air Conditioning Mechanic?
 Engineer or Plant Supervisor?
 College Degree?



Yuma/La Paz Tech Prep Consortium
 P.O. Box 929 • Yuma, Arizona 85366
 (928) 344-7754 • Fax: (928) 317-6108



Career Pathway

Associate of Applied Science Degree in Air Conditioning and Refrigeration

High School Plan

Student Name: _____

ID Number: _____

Counselor Name: _____

GRADE	English/ Language Arts	Math	Phys Ed, Health, Social Studies	Science	Program Electives	Total Credits	Related CTSO Program	Notes	
8th grade parent / student night - Take Career Interest Survey									
Freshman	English I	Algebra I	Physical Education I ↔ Health	Biology	Exploring Technology	Electronic Technology	6		
Sophomore	English II	Algebra II	World History	Chemistry	Computer Applications I ↔ Physical Education II	Agricultural Mechanics I	6		
In 10th grade, assess for college readiness by taking the AWC Accuplacer (college placement test)									
Junior	English III	Geometry	US History	Engineering Science & Technology Lab	Welding Technology	Business Ownership • Business Plan Development (3 cr)	6		
In 11th grade, assess for college readiness by taking the AWC Accuplacer (college placement test)									
Senior	English IV	Math Analysis	Government ↔ Economics	Industrial Cooperative Education	↔ On-the-Job Training	↔ On-the-Job Training	6	24 Total Credits	

Courses needed to complete A.A.S. in Air Conditioning and Refrigeration at Arizona Western College

GRADE	Freshman Composition	Math	Social & Behavioral Sciences	Physical & Biological Sciences	Arts & Humanities	Major Requirements	Total Credits	Notes	
1st Semester (Fall)	ENG 100: Intro. to Composition (3 cr)	■ MAT 105 (completed during high school)		SCI 100: Applied Chemistry (2 cr)		♦ ACR 101: Air Conditioning & Refrigeration I (3 cr)	♦ ACR 103: Electrical Motors, Circuits/Controls (3 cr)	ECT 105: Basic Electricity (3 cr)	17 (3 completed during high school)
2nd Semester (Spring)	ENG 101: Freshman Composition (3 cr)		General Elective (Consult with your advisor) (1 cr)	SCI 105: Applied Physics (2 cr)		▼♦ ACR 102: Air Conditioning & Refrigeration II (3 cr)	ACR 113: Heating Technology (3 cr)	TEC 165: Employee & Occupational Safety (3 cr)	15
3rd Semester (Fall)	ENG 110: Technical Writing (3 cr)		Social and Behavioral Sciences (3 cr)		• ENT 240 (Completed during high school)	ACR 112: Control Systems (3 cr)	ACR 201: Air Conditioning and Refrigeration 3 (3 cr)	WLD 109: Techniques in Gas Metal Arch Welding (3 cr)	18 (3 completed during high school)
4th Semester (Spring)	Options (2 cr)				Arts/Humanities (3 cr)	ACR 212: Heat Load Calculations & Duct Design (3 cr)	ACR 202: Air Conditioning and Refrigeration 4 (3 cr)	ACR 213: Light Commercial Systems (3 cr)	14
♦ Dual Enrollment Course ■ Concurrent Enrollment Course ▼ Pre-Requisite / Co-Requisite Required ♦ Pre - Requisite / Co-Requisite Course							Electives Required A.A.S. General Requirement Recommended Elective Required Elective	64 Total Credits (6 completed during HS)	