

# Heating, Ventilation, Air Conditioning and Refrigeration (HVAC-R) Certificate

Full-Time Fall Start

[www.pima.edu/hvac-cert](http://www.pima.edu/hvac-cert)

Learn to install, maintain and repair Heating, Ventilation, Air Conditioning-Refrigeration (HVAC-R) systems through a combination of theoretical study and hands-on practice.

**Title IV Financial Aid eligible:** Yes

## What can I do with this certificate?

**Career options:** Seek employment as a HVAC-R technician, specialist or system installer, servicing and installing HVAC-R systems.

**Academic options:** Continue your studies by taking classes toward a Building and Construction Technology AAS degree

### CHOOSE YOUR COURSES WITH YOUR COLLEGE ADVISOR

## Placement

Students must meet prerequisite standards before taking GTM 105 and GTW 101, required in the pathway below. If you are not prepared for the courses based on placement results you will need to take courses to build your skills prior to taking them. The sequence of courses follows.

Math: ICS 081 > GTM 105

If a MAT course higher than MAT 106 is chosen, and/or if WRT 101 or 154 is chosen, additional coursework may be needed

## Semester Pathway

This pathway is a suggested sequence of courses for your program of study. Work with an advisor to develop a unique pathway for you based on your placement recommendations, any prior college courses, and your specific situation.

### Semester 1 - Fall (Semester Total: 13 credits)

**BCT 105:** Professionalism in Service, Construction Math, Basic Rigging (3 credits)

**BCT 107:** Basic Safety, Hand and Power Tools, Blueprint Reading (3 credits)

**GTM 105:** Applied Technical Mathematics (3 credits)  
or MAT course numbered 100 or higher: (3 credits)

**STU 100:** College Study Skills (1 credit)

**GTW 101:** Writing for Trades and Technical Occupations (3 credits)  
or **WRT 101:** English Composition I (3 credits)  
or **WRT 154:** Career Communications (3 credits)

### Semester 2 - Spring (Semester Total: 12 credits)

**BCT 106:** Soldering and Brazing for Building and Construction Technologies (4 credits)

**BCT 120:** Blueprint Reading for Construction (3 credits)

**BCT 132:** Residential and Industrial HVAC I (4 credits)

**CSA 100:** Computer Literacy (1 credit)

**Semester 3 - Summer (Semester Total: 8 credits)**

**BCT 133:** Residential and Industrial HVAC II (4 credits)

**BCT 134:** Residential and Industrial HVAC III (4 credits)

**PROGRAM TOTAL: 33 credits**

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

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**Find more information about this program at:  
[www.pima.edu/hvac-cert](http://www.pima.edu/hvac-cert)**