



Heating, Ventilation, Air Conditioning, and Refrigeration Associate of Applied Science

AAS.HVAC
2023-2024

Texas Southmost College
Division of Business, Engineering, Architecture, and Technology

The mission of the Heating, Ventilation, Air Conditioning and Refrigeration (HVAC) program is to prepare students for the successful entry in the air conditioning, heating and refrigeration industry. Students develop skills, knowledge and successful workplace attitudes in installation, service/repair and maintenance of typical equipment and systems. The HVAC Technology program provides students with classroom and laboratory experiences using the most current technology to perform assigned work and projects.

Recommended Course Sequence

FIRST YEAR – FALL SEMESTER	Credits	Core/ Program
HART 1300* HVAC Duct Fabrication	3	Program
HART 1301* Basic Electricity for HVAC	3	Program
HART 1307* Refrigeration Principles	3	Program
HART 1310* HVAC Shop Practices and Tools	3	Program
XXXX X3XX† Social & Behavioral Sciences Elective	3	Core
FIRST YEAR – SPRING SEMESTER	Credits	Core/ Program
HART 1341* Residential Air Conditioning	3	Program
HART 1303* Air Conditioning Control Principles	3	Program
MAIR 1349* Refrigerators, Freezers, Window Air Conditioners	3	Program
HART 2342* Commercial Refrigeration	3	Program
ENGL 1301* Composition I	3	Core
SECOND YEAR – FALL SEMESTER	Credits	Core/ Program
HART 1345* Gas and Electric Heating	3	Program
HART 2338* Air Conditioning Installation and Startup	3	Program
HART 2345* Residential Air Conditioning System Design	3	Program
HART 2341* Commercial Air Conditioning	3	Program
SPCH 1315 Public Speaking OR SPCH 1318 Interpersonal Communication	3	Core
SECOND YEAR – SPRING SEMESTER	Credits	Core/ Program
HART 2336* Air Conditioning Troubleshooting	3	Program
HART 2331* Advanced Electricity for HVAC	3	Program
HART 2388* Internship – Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician	3	Program
MATH 1332* Contemporary Mathematics	3	Core
XXXX X3XX† Language, Philosophy & Culture/Creative Arts Elective	3	Core
Total Credit Hours for Graduation	60	

Check course core designation at the [Class Availability website](#).

This information is provided as an example only. You will develop a personalized plan with your Success Coach and faculty advisor/mentor that reflects your goals and interests. You are required to meet with an advisor each semester to ensure you are on track for graduation. This document does not contain all the information you need to stay on track for graduation.

*Grade of "C" or better is required for graduation.

†Students may take any course within this category of the TSC General Education Core Curriculum.



Heating, Ventilation,
Air Conditioning and Refrigeration



Program Student Learning Outcomes

Program Student Learning Outcomes (PSLO) are statements that specify what students will know, be able to do or be able to demonstrate when they have completed the program.

1. Graduates will be able to identify and develop the necessary skills and training relevant to troubleshoot and repair HVAC/R equipment in the HVAC/R industry.
2. Graduates will be able to demonstrate an understanding of the HVAC/R industry and the terminology used.
3. Graduates will be able to express an understanding of the safety requirements, identifying tools, industry codes, and equipment used in the HVAC/R industry.