

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

Texas Southmost College
Division of Science, Technology, Engineering & Mathematics/
Career & Technical Education

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.

FIRST YEAR - FALL SEMESTER	CREDIT HOURS
HART 1300 ⁺ HVAC Duct Fabrication	3
HART 1301 ⁺ Basic Electricity for HVAC	3
HART 1307 ⁺ Refrigeration Principles	3
HART 1310 ⁺ HVAC Shop Practices and Tools.....	3
XXXX X3XX ² Social and Behavior Sciences Elective.....	3

FIRST YEAR - SPRING SEMESTER	
HART 1341 ⁺ Residential Air Conditioning	3
HART 1303 ⁺ Air Conditioning Control Principles	3
MAIR 1349 ⁺ Refrigerators, Freezers, Window Air Conditioners	3
HART 1356 ⁺ EPA Recovery Certification Preparation	3
ENGL 1301 ⁺ Composition I.....	3

SECOND YEAR - FALL SEMESTER	
HART 1345 ⁺ Gas and Electric Heating	3
HART 2338 ⁺ Air Conditioning Installation and Startup.....	3
HART 2301 ⁺ Air Conditioning and Refrigeration Codes	3
SPCH 1315 Public Speaking OR	
SPCH 1318 Interpersonal Communication	3
MATH 1332 ⁺ Contemporary Mathematics.....	3

SECOND YEAR - SPRING SEMESTER	
HART 2342 ⁺ Commerical Refrigeration	3
HART 2345 ⁺ Residential Air Conditioning Systems Design	3
HART 2388 ⁺ Internship – Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician.....	3
HART 2349 ⁺ Heat Pumps	3
XXXX X3XX ¹ Language, Philosophy & Culture/Creative Arts Elective.....	3

TOTAL CREDIT HOURS FOR GRADUATION - 60

⁺ Grade of “C” or better is required for graduation.

¹ Language, Philosophy & Culture/Creative Arts Electives: Any General Education Core course that meets these categories.

² Social and Behavioral Sciences Elective: Any General Education Core course that meets this category.

A minimum grade of “C” must be obtained in each (HART, MAIR) course required in the degree plan.