

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

Texas Southmost College
Division of Science, Technology, Engineering & Mathematics

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 ¹ Social and Behavioral 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 2342 ⁺ Commerical Refrigeration..... | 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 2345 ⁺ Residential Air Conditioning System Design..... | 3 |
| HART 2341 ⁺ Commerical Air Conditioning..... | 3 |
| SPCH 1315 Public Speaking OR SPCH 1318 Interpersonal Communication..... | 3 |
| SECOND YEAR - SPRING SEMESTER | |
| HART 2336 ⁺ Air Conditioning Troubleshooting | 3 |
| HART 2331 ⁺ Advanced Electricity for HVAC..... | 3 |
| HART 2388 ⁺ Internship – Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician | 3 |
| MATH 1332 ⁺ Contemporary Mathematics | 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 Students may take any course within this category of the TSC General Education Core Curriculum.