

Air Conditioning

7/202

	First Semester - 15 SCH	Second Semester - 15 SCH
	HART 1301 - Basic Electricity for HVAC HART 1307 - Refrigeration Principles HART 1310 - HVAC Shop Practices and Tools HART 1303 - Air Conditioning Control Principles PSYC 1300 - Learning Framework	HART 1341 - Residential Air Conditioning HART 1345 - Gas and Electric Heating HART 2338 - Air Conditioning Installation & Startup HART 2349 - Heat Pumps ENGL 1301 - Composition I
	Third Semester - 15 SCH	Fourth Semester - 15 SCH
	HART 2331 - Advanced Electricity for HVAC HART 2336 - Air Conditioning Troubleshooting	HART 2334 - Advanced Air Conditioning Controls HART 2341 - Commercial Air Conditioning

HART 2336 - Air Conditioning Troubleshooting HART 2345 - Residential Air Conditioning Systems Design COSC 1301 - Introduction to Computing MATH 1332 - Contemporary Mathematics HART 2334 - Advanced Air Conditioning Controls HART 2341 - Commercial Air Conditioning HART 1356 - EPA Recovery Certification Preparation DRAM 1310 - Theater Appreciation SPCH 1321 - Business & Professional Communication

Marketable Skills

- Test electrical circuits or components for continuity, using electrical test equipment.
- Repair or replace defective equipment, components, or wiring.
- Discuss heating or cooling system malfunctions with users to isolate problems or to verify that repairs corrected malfunctions.
- Connect heating or air conditioning equipment to fuel, water, or refrigerant source to form complete circuit.
- Install, connect, or adjust thermostats, humidistats, or timers.
- EPA recovery and certification.
- HVAC and Refrigeration Controls.
- Troubleshooting air conditioning and refrigeration systems.
- Installation and service of residential and commercial cooling and heating systems.
- Heat load calculation and duct design.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$48,030; 10% of workers earn \$30,190 or less; 10% of workers earn \$72,010 or more.

Career Opportunities

Program Outcomes

- Install, troubleshoot and repair refrigerators, freezers, and window air conditioners.
- Install, troubleshoot and repair split or package residential air conditioning systems, including electric furnaces, gas furnaces and heat pumps.
- Install, troubleshoot and repair split and package commercial air conditioning and refrigeration systems.
- Install, program, troubleshoot and repair residential, commercial and industrial Distributed Digital Control Systems.
- Become certified to handle CFC's, HCFC's, and HFC's.

Additional Educational Opportunities

Bachelor of Arts in Applied Science

Consulting; Controls Technician; Customer Service; Dispatcher/ Coordinator; Distributor; Distributor Counter Sales; Energy Auditor; Equipment Performance Testing Specialist; Estimator; Field Technical Specialist; Field Supervisor; HVAC Equipment Dealer; IAQ Inspector; Inside Sales and Outside Sales; Installer; Product Technical Support; Project Manager; Public Relations; Purchasing; Sheet Metal Fabrication; Parts Store Manager; Technical Training Instructor; Shop Maintenance; Service Technician; Contractor.