



Heating, Ventilation, and Air Conditioning Technology (HVAC) Associate of Applied Science (A.A.S.)

2018–2019

DESCRIPTION:

The Heating, Ventilation, and Air Conditioning Technology (HVAC) A.A.S. degree program prepares graduates for a wide variety of occupations in the \$150 billion mechanical environment science field. Graduates receive the training needed to develop a high degree of technical skill, the ability to work with minimal supervision, and a strong sense of personal responsibility. In addition, they are prepared for the ethical, legal, and regulatory requirements relating to environmental concerns facing the HVAC industry today and in the future. For more information, see csc.edu/hvac.

ADMISSION REQUIREMENTS:

This is a non-selective, open-admission program. Students may begin this degree during any semester.

ONGOING REQUIREMENTS:

Students must maintain minimum overall GPA required by the College. Students can take the EPA 608 exam at the completion of HVAC 1140.

OPPORTUNITIES FOR GRADUATES:

Career:

Graduates find employment as installers, service technicians, estimators, designers, inside or outside sales, code enforcement inspectors, and plans examiners, among many others. Settings include large commercial heating and air conditioning contractors, residential mechanical contractors, parts and equipment distributors, large commercial and industrial facility maintenance departments, hospital facilities maintenance departments, and custom design or new construction markets. Many graduates also find employment with equipment manufacturers in research and development.

Graduates with field experience and further experience in business management can look to ownership of their own HVAC companies or be involved with upper management in either local or national HVAC manufacturers or companies.

Transfer:

Graduates with the HVAC Technology A.A.S. degree can transfer into Technical and Applied Studies B.S. (Ohio University), Applied Management B.S. (Franklin University) and HVACR Engineering Technology and Energy Management B.S. (Ferris State University).

DEGREE REQUIREMENTS (HEATING, VENTILATION, AND AIR CONDITIONING TECHNOLOGY—HVAC—A.A.S.):

FIRST SEMESTER

Course	Term	Credits	Milestones/Progress Check
ARCH 1100 Visual Communications 1	AU/SP/SU	1	• Student can take the EPA 608 exam at the completion of HVAC 1140.
CSCI 1101 PC Applications 1	AU/SP/SU	3	
HVAC 1140 Principles of Refrigeration	AU/SP	3	
HVAC 1160 Hand Tools/Safety	AU	3	
HVAC 1180 Wiring Circuits 1	AU	2	
COLS 1100 - First Year Experience Seminar	AU/SP/SU	1	
ENGL 1100 - Composition I	AU/SP/SU	3	
Semester Credits		16	

SECOND SEMESTER

Course	Term	Credits	Milestones/Progress Check
HVAC 1150 Instrumentation/Combustion Process	SP	3	• The student can take the ESCO Certified Carbon Monoxide Inspector Exam at the end of HVAC 1150.
HVAC 1280 Wiring Circuits 2	SP	3	
HVAC 1120 Load Calculations 1	SP	3	
MATH 1101 Mathematics Automotive and Construction Sciences	AU/SP/SU	3	
ESSH 1160 OSHA 10	AU/SP/SU	1	
SBS Social/Behavioral Science Elective	AU/SP/SU	3	
Semester Credits		16	

THIRD SEMESTER

Course	Term	Credits	Milestones/Progress Check
HVAC 2150 Heating Systems	AU/SP	3	
HVAC 2160 Automatic Controls	AU/SP	3	
HVAC 2220 Load Calculations 2	AU	2	
COMM 2200 Business and Professional Communications	AU/SP/SU	3	
HUM Humanities Elective	AU/SP/SU	3	
BMGT 2231 Fundamentals of Entrepreneurship	AU/SP/SU	3	
Semester Credits		17	

FOURTH SEMESTER

Course	Term	Credits	Milestones/Progress Check
HVAC 2140 A/C & H.P.	AU/SP	4	• Upon completion of the Associate Degree, the student will also qualify for the Residential/Light Commercial Certificate.
HVAC 2193 Advanced Problem	On Demand	3	
HVAC Technical Elective	AU/SP/SU	3	
BMGT 2232 Entrepreneurship Business Plan Development	AU/SP/SU	3	
NAT Natural/Physical Sciences Elective	AU/SP/SU	3	
Semester Credits		16	
Total		65	

AU: Autumn Semester/SP: Spring Semester/SU: Summer Semester
Requirements subject to change.