

Heating, Ventilation, Air Conditioning/ Refrigeration

Air Conditioning/Refrigeration Technology Diploma in Applied Science

Mission Statement

The Air Conditioning and Refrigeration Department is dedicated to the training of students to meet the ever changing needs of the air conditioning/refrigeration industry. The program will be continually monitored and improved to meet employer needs through the department's advisory committee, which is composed of representatives from local AC/R companies. This diploma provides the students with the needed theory and hands-on experience to obtain employment in the residential, commercial air conditioning and commercial refrigeration industries.

Entrance Requirements:

Acceptable placement test score(s); plus high school diploma or GED. Students may enter this program any semester with department head approval.

Type of Program:

Day or evening

Professional Credentials:

EPA Technician (subject to passing EPA exam)

Employment Opportunities:

Installation and servicing of all types of heating and air conditioning and refrigeration equipment

- This program trains students to install and service heat pumps, gas, oil, electric equipment, and commercial refrigeration units.
- Each student must take one of the following industry competency exams to complete this diploma:
 - Residential Air Conditioning & Heating
 - Light Commercial Air Conditioning & Heating
 - Commercial Refrigeration
- An Associate Degree in Applied Science with a major in General Technology is available to graduates of this diploma program.

Recommended Program Schedule

First Semester

ACR	101	Fundamentals of Refrigeration	5.0
ACR	102	Tools and Service Techniques	3.0
ACR	106	Basic Electricity for HVAC/R	4.0
MAT	155	Contemporary Mathematics*+ or	3.0
MAT	170	Algebra, Geometry, and Trigonometry I*	

Second Semester

ACR	110	Heating Fundamentals	4.0
ACR	120	Basic Air Conditioning	4.0
ACR	131	Commercial Refrigeration	4.0
ACR	140	Automatic Controls	3.0
ENG	165	Professional Communications*++	3.0

Third Semester

ACR	150	Basic Sheet Metal	2.0
ACR	160	Service Customer Relations	3.0
ACR	210	Heat Pumps	4.0
PSY	103	Human Relations*	3.0

Total Required Credit Hours: 45.0

Note: See your advisor for recommended evening schedules.

Course rotation may differ based on the semester that the student enters into the program.

*Required General education course

Required General education course may be substituted each semester with advisor approval.

+Take MAT 110 if placement allows.

++Take ENG 101 and SPC 205 if placement allows.

Visit <https://www.gvltec.edu/gainful-employment/> for important information about the educational debt, earnings and graduation rates of students who attended programs.