

2023-2024 TTC Catalog

General Technology - Air Conditioning and Refrigeration Mechanics

Associate in Applied Science in General Technology

Air Conditioning/Refrigeration Career Path

60-64 Credit hours

The General Technology major allows students to select course work necessary to become multi-skilled technicians. In addition to completing the college's core curriculum, students also complete course work in at least two technical areas. The following is an example of a career path available. The secondary paths may be substituted for courses in other programs' primary path. Interested students should talk with their advisors.

This career path prepares students for entry-level positions in the residential and light commercial heating and air conditioning field. Students are taught refrigeration fundamentals, tools and service, gas and electric heat, heat pumps, air conditioning, and basic sheet metal skills for duct fabrication.

Students can earn only one General Technology degree in a single career path.

General Education Core Requirements

ENG 101 English Composition I 3

ECO 210 Macroeconomics 3

or

PSY 201 General Psychology 3

SPC 205 Public Speaking 3

or

SPC 209 Interpersonal Communication 3

REQ HUM Select from 3
[Humanities](#)

REQ MAT Select from 3
[Mathematics/](#)
[Natural Sciences](#)

Total: 15

First Year Experience

IDS 109 First Year Experience Seminar 3

or

EGR 110 Introduction to Computer Environment 3

Total: 3

Primary Technical Specialty

ACR 106 Basic Electricity for HVAC-R 4
ACR 108 Refrigeration Fundamentals 3
ACR 109 Tools and Service Techniques II 2
ACR 111 Gas Heating Principles 3
ACR 120 Basic Air Conditioning 4
ACR 150 Basic Sheet Metal 2
ACR 210 Heat Pumps 4
ACR 224 Codes and Ordinances 2
IMT 151 Piping Systems 3

and

a minimum of two credit hours in an IMT course with faculty advisor approval.

Total: 29

Secondary Technical Specialty

Take 13 - 17 additional credit hours from the following subject areas to meet the requirements for an associate degree. Twelve credit hours can be applied to a secondary technical specialty and five credit hours can be applied to a third specialty, if applicable. All secondary studies must be approved by your academic advisor.

Secondary Technical Specialty Programs

Automotive Technology
Business Administration
Commercial Truck Driving
Electrical Line Worker
Electrician: Automation, Construction and Industrial
Engineering Design Graphics
Industrial Maintenance
Machine Tool Technology
Mechatronics
Welding Technology

Total: 13-17

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.