

# 2022-2023 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 124 Pumps 2  
IMT 151 Piping Systems 3

Total: 29

### **Secondary Technical Specialty**

Take 12 - 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.