

2018-2019 TTC Catalog

General Technology - Air Conditioning and Refrigeration Mechanics

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Associate in Applied Science in General Technology

Air Conditioning/Refrigeration Career Path

65 Credit hours

The General Technology major allows students to select course work necessary to become multiskilled 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

These are suggested courses. Other courses may be substituted from other primary technical programs. See your program advisor.

MGT 101 Principles of Management 3
MGT 120 Small Business Management 3
MKT 101 Marketing 3
MKT 130 Customer Service Principles 3

Total: 12

Additional Requirements

Select two courses from Business electives.

BAF 215 Money and Banking 3
CPT 172 Microcomputer Database 3
CPT 174 Microcomputer Spreadsheets 3
CPT 179 Microcomputer Word Processing 3
CWE Cooperative Work Experience *
ENG 102 English Composition II 3
MGT 230 Managing Information Resources 3
MGT 235 Production Management 3
MGT 240 Management Decision Making 3
MKT 135 Customer Service Techniques 3
MKT 250 Consumer Behavior 3
QAT 101 Introduction to Quality Assurance 3
SPA 101 Elementary Spanish I 4
SPA 102 Elementary Spanish II 4
TRL 106 Export/Import 3

Total: 6

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.