

2024-2025 TTC Catalog

General Technology - Industrial Maintenance

Associate in Applied Science in General Technology

Industrial Maintenance Career Path

67-72 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 program prepares students for a broad range of employment within the industrial maintenance field. The program is designed to develop multi- skilled technicians who install, maintain and repair commercial or industrial machinery in buildings, process plants or manufacturing settings. The mechanical primary path provides a solid foundation in drive systems, hydraulics, pneumatics, pumps, piping systems, and machinery preventive and predictive maintenance. As part of the associate degree program students choose a secondary path in a technical field of study. Students can choose air conditioning and refrigeration, welding, industrial electrical and automation controls or machine tool technology. See your advisor for more information.

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

General Education Core Requirements

ENG 101 English Composition I 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	

REQ SSC	Select from	3
	Behavioral/Social	
	Sciences	

Total: 15

First Year Experience Requirement

EGR 110 Introduction to Computer Environment 3

or

IDS 109 First Year Experience Seminar 3

Total: 3

Primary Technical Specialty Requirements

IET 223 Industrial Safety 3

IMT 106 Fundamentals of Industrial Technology 3

IMT 115 Industrial Schematics 3

IMT 127 Industrial Pumps 3

IMT 131 Hydraulics and Pneumatics 4

IMT 140 Industrial Electricity 5

IMT 151 Piping Systems 3

IMT 160 Preventive Maintenance 3

IMT 161 Mechanical Power Applications 4

IMT 163 Problem Solving for Mechanical Applications 3

MGT 101 Principles of Management 3

Total: 37

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

Air Conditioning and Refrigeration

Automotive Technology

Business Administration

Commercial Truck Driving

Electrical Line Worker

Electrician: Automation, Construction and Industrial

Engineering Design Graphics

Machine Tool Technology

Mechatronics

Welding Technology

Total: 12-17

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.