

2025-2026 TTC Catalog

General Technology - Machine Tool Technology

Associate in Applied Science in General Technology

Machine Tool Technology Career Path

63-65 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 introduces students to workplace safety, blueprint reading, precision measuring, basic conventional machining and CNC operations, including set-up and programming. Students are prepared for entry-level employment in the metal- working industry.

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
MTT 101 Introduction to Machine Tool 2
MTT 111 Machine Tool Theory and Practice I 5
MTT 112 Machine Tool Theory and Practice II 5
MTT 120 Machine Tool Print Reading 3
MTT 143 Precision Measurements 2
MTT 175 Innovations in Machining Technology 3
MTT 250 Principles of CNC 3
MTT 251 CNC Operations 3
MTT 253 CNC Programming and Operations 3

Total: 32

Secondary Technical Specialty Requirements

Take 15 - 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 up to eleven 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
Industrial Maintenance
Mechatronics
Welding Technology

Total: 15-17

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.