

# 2022-2023 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.