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 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 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
EGT 106 Print Reading and Sketching 3
IET 223 Industrial Safety 3
MTT 111 Machine Tool Theory and Practice I 5
MTT 112 Machine Tool Theory and Practice II 5
MTT 143 Precision Measurements 2
MTT 145 Machining of Metals 3
MTT 250 Principles of CNC 3
MTT 251 CNC Operations 3
MTT 253 CNC Programming and Operations 3

Total: 30

**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
Electrical Line Worker
Electrician: Automation, Construction and Industrial Engineering Design Graphics
Industrial Maintenance
Welding

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.