Southeast COMMUNITY COLLEGE

2020-21 PROGRAM OF STUDY

PRECISION MACHINING AND AUTOMATION TECHNOLOGY

Milford Campus

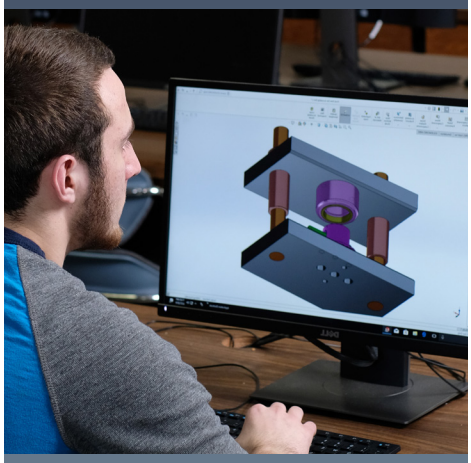
STEM

www.southeast.edu/PrecisionMachining

Associate of Applied Science Degree
Diploma

Credit Hours Required for Graduation:
Diploma 34.5
Associate of Applied Science Degree: 69.0
- Tool Maker Focus
- CNC & Automation Focus

Scan this code to access the course listing



For more information contact:

Kirby Taylor, Program Director
402-761-8369, 800-933-7223 ext. 8369
ktaylor@southeast.edu

or the College Admissions Office
Milford 402-761-8243, 800-933-7223 ext. 8243

Do you enjoy designing and building things, both large and small, that you use or need in your everyday life? Anything that is built, regardless of size, requires a machinist to be involved in the process. As quickly as the world changes, so do the things that people buy and build everyday. SCC's Precision Machining and Automation Technology program is constantly changing to keep up with the needs of the world's manufacturers so our students can be provided with an excellent career opportunity. Communities both large and small have places of business that need precision machinists throughout the Midwest and across the country.

SCC is the Right Choice

You'll learn a great combination of foundational elements and cutting-edge technology. We believe that we produce the most balanced and knowledgeable graduates around.

- You'll gain knowledge and experience in tool and materials selection, blueprint reading, measurement, and project layout
- You'll learn to make molds, dies, and custom CNC components
- Many students hold part-time jobs with manufacturing facilities, and some are sponsored by companies that assist with the cost of education
- We offer Tool Maker and CNC & Automation focus areas
- In addition to machine-specific training, you'll receive essential workplace skills including communication, leadership, writing, and teamwork abilities
- Upon graduation, you'll have hundreds of diverse job opportunities from which to choose

"I chose the SCC Precision Machining program because it is one of the best precision machining programs in the country. This was easily proven by the excellent education I received. This program has some outstanding instructors that know exactly what you need to learn to be prepared for the great job you will get when you graduate."

-Matthew Lorens, current student

Top Career Options

- Tool, Die and Mold Maker
- Precision Machinist
- Machine Builder
- CNC Programmer
- Tooling & Equipment Designer

Graduate Earnings

Recent graduates report an average starting salary of $43,472 per year.

2020-2021 Resident Estimated Expenses

Tuition/Fee Rate Per Credit Hour	$111
Resident Tuition/Fees	$7,659
Books	$959
Supplies	$50
Tools	$2,750
Total: $11,418	
Non-Resident Tuition/Fee Rate Per Credit Hour	$132
Non-Resident Tuition/Fees	$9,108

Precision Machining and Automation Technology -Required Basic Tool List

Toolbox - A toolbox is not required as SCC can provide students with toolboxes. However, it is common for students to purchase their own. If a student chooses to purchase their own toolbox, it must be a roll-away unit where both the lower and upper units can be locked for security and **cannot exceed 30 inches in length** due to space consideration in the lab.

TOOLS REQUIRED BY WEEK THREE OF FIRST TERM:

- Safety Glasses, (2 pr)
- Steel Rule, 6" Flexible
- Dial Calipers, 6"
- Micrometer, 0-1"
- Micrometer, 1-2"
- Travel Indicator, 1"
- Indicator Base, Magnetic
- Indicator Base Kit, Compact
- Combination Square Set, 6"
- Gage, Drill Point
- Gage, Center
- Gage, Acme
- Gage, 60° Thread Pitch
- Radius Gauge set
- Scriber
- Edge Finder
- Screwdriver Set, 2-pc
- Wrench, Adjustable
- Hammer, Brass
- Hammer, Dead Blow
- File, Second Cut, Mill
- File Handle
- File Card
- Chip Brush
- Tap Handle, 9"
- Tap Handle, 6"
- Chuck Key
- Pliers, Slip Joint
- Hex Key Set, Standard
- Hex Key Set, Metric
- Center Punch
- Prick Punch
- Countersink Set
- Deburring Tool
- Deburring Tool Replacement Blades
- India Stone
- Tape Measure, 1/2"
- Parallel Set
- Drill Set, 115 pc
- Layout Fluid

TOOLS REQUIRED BY FIRST WEEK OF SECOND TERM:

- Depth Micrometer
- Test Indicator, .0005"
- Test Indicator, .0001"
- Holder, Test Indicator
- Gage Set, Telescoping
- Gage Set, Small Hole
- Hammer, Ball Peen
- Pin Punch Set