Computer Technology: Automated Manufacturing Option

Associate of Applied Science (AAS)

Computer technology is an Associate of Applied Science (AAS). Traditionally, AAS degrees are technical in nature with some general education requirements. If your interest is in computer networks and telecommunication systems; computer numerical control; automated machine operations; computer animation and graphics; or multimedia, computer technology might be for you. Upon completion, all of these options transition into bachelor degrees.

Automated Manufacturing
Automated manufacturing combines industrial technology and manufacturing components to prepare students for positions in the manufacturing/production sectors of industry. Course work includes robotics, computer aided manufacturing, computer numerical control, programmable logic controllers, materials testing, industrial materials and processes, and drafting and solid modeling.

Career Planning
Career preparation is part of the mission of Southeast. In fact, more than 90% of Southeast students participate in internships, clinical opportunities, student teaching, research assistantships, and study abroad.

Professiona career counselors are available for all students. The Office of Career Services in Academic Hall 057 can provide students with professional career counseling, resume critiques, practice interviews, job search strategies, career events, networking opportunities, and more.

Career Opportunities
- Production Specialist
- Quality Assurance
- Sales and Estimating
- Production Technician
- Graphic Designer
- PLC Programmer

AAS to BS Options
The following Bachelor of Science degree programs can be easily transitioned into after completion of the AAS degree:
- Technology Management: Industrial & Safety Management Option
- Engineering Technology: Mechanical & Manufacturing Systems Option

Other bachelor degree programs within the Department of Polytechnic Studies might be pursued in conjunction with this AAS degree; however, it may be more difficult. See an advisor for more details.

Transfer and Dual Credit Students
If you have dual credit or transfer credit, please visit our transfer course equivalencies guide at semo.edu/transfercredit.
This is a guide based on the 2018-2019 Undergraduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use DegreeWorks to monitor their individual progress.

### CURRICULUM CHECKLIST

**Computer Technology: Automated Manufacturing Option – 70 Hours**

- CH181 Basic Principles of Chemistry (5)
- EN100 English Composition I (3) OR
- EN140 Rhetoric & Critical Thinking (3)
- IM300 Technical Communications (3)
- IM301 Industrial Safety Supervision (3)
- IM419 Industrial Supervision (3)
- MA116 Precalculus A (3)
- MA117 Precalculus B (3)
- MN260 Tech Computer Programming (3)
- PH120 Introductory Physics I (5)
- PS103 U.S. Political Systems (3)
- SC105 Fundamentals of Oral Communications (3)

#### Automated Manufacturing:

- ET 160 Basic Electricity & Electronics (3)
- ET 304 Introduction to PLCs (3)
- IM 311 Statistical Process Control (3)
- IM 120 Fundamentals of Engineering Design Processes (3)
- IM 170 Industrial Materials & Testing (3)
- MN 203 Industrial Materials & Processes I (3)
- MN 221 Solid Modeling & Rapid Prototyping (3)
- MN 304 Industrial Materials & Processes II (3)
- MN 324 Mechanical Design Processes (3)
- MN 356 Robotics (3)
- MN 412 Advanced Manufacturing System (3)

### SAMPLE FIVE-SEMESTER PLAN

#### Course Plan

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*Refer to the Undergraduate Bulletin or DegreeWorks for additional graduation requirements (i.e. minimum GPA and coursework) for your program of study.*