SOUTHEAST MISSOURI STATE UNIVERSITY · 1873

Computer Technology: Automated Manufacturing Option

Associate of Applied Science (AAS)

Automated Manufacturing Option

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.

Professional 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.

To learn more
Office of Admissions
(573) 651-2590
admissions@semo.edu
semo.edu

To explore
the College of Science, Technology, Engineering and Mathematics online, visit
semo.edu/stem

For advising
Center for Academic Advising
semo.edu/advising

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Degree Map 2018-2019

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)
___ MN 120 Fundamentals of Engineering Design Processes (3)
___ MN 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

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	CH181/081/001	5	IM300	3
	EN100/EN140	3	MN120	3
	MA116	3	MN170	3
	MA117	3	MN260	3
			PH120/020	5
	Total	**14**	**Total**	**17**
SECOND YEAR	ET160	3	ET304	3
	IM311	3	IM301	3
	MN203	3	MN221	3
	SC105	3	MN304	3
			MN412	3
	Total	**12**	**Total**	**15**
THIRD YEAR	IM419	3		
	MN324	3		
	MN356	3		
	PS103	3		
	Total	**12**		

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

Revised
7/10/2018

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