

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 options transition into the bachelor degree.

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.

Upon completion of this option, students can easily transition to a B.S. in engineering technology with an option in mechanical and manufacturing systems.

This program is eligible for the Southeast A+ Scholarship.

Career Planning

Demonstrated Career Proficiency is a Requirement of all Southeast Students		
CL001/CL002	First Semester	Complete the FOCUS2 assessment and develop a Career Action Plan.
CL003	Junior Year	Students gain information about career planning and job searching resources.
CL004	Senior Year	Students demonstrate advanced proficiency by identifying a position in their field, developing a cover letter, and tailoring a resume for the position. Materials are critiqued to ensure preparedness for a successful job search.
Career Services , located in Academic Hall 057, provides professional career advising to guide students in their career development.		

Career Opportunities

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

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

To explore
 the College
 Science, Technology and
 Agriculture online, visit
www.semo.edu/costa

For advising
 College of Science, Technology and
 Agriculture Advising Center
 (573) 651-5930
www.semo.edu/costa/advising/index.htm

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This is a guide based on the 2014-2015 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)
- ___ IM102 Technical Communications (3)
- ___ IM301 Industrial Safety Supervision (3)
- ___ IM419 Industrial Supervision (3)
- ___ MA133 Plane Trigonometry (3)
- ___ MA134 College Algebra (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

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Requirements for the 2014-2015 Undergraduate Bulletin

▶	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	CH181/081/001	5	IM102	3
	EN100/EN140	3	MN120	3
	MA133	3	MN170	3
	MA134	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.