

Computer Technology: Microcomputer Systems Option

Associate of Applied Science (AAS)

Microcomputer Systems Option

Computer technology is an Associate of Applied Science (AAS) option. AAS degrees are traditionally technically focused with some general education requirements. If your interest is in technically-oriented tasks such as designing and implementing computer networks and telecommunication systems, solving manufacturing process and production problems, programming computer numerical control (CNC) machines for automated machine operations, designing computer animation and graphics, or designing multimedia projects, then one of the computer technology options might be for you. All of the options transition smoothly into bachelor degree options upon completion.

Microcomputer Systems

The Microcomputer systems option is designed to prepare students with background and skills to design, implement, and support networked systems in both standard and enterprise settings. It builds a solid foundation in the hardware and architecture of telecommunications networks and systems; operating systems and applications; systems design and analysis; networking theory and solutions; types of networks, including fiber optics and wireless; network management and control; network and flow optimization; network security; configuring, and troubleshooting.

Upon completing this option, students may easily transition to a Bachelor of Science in Technology Management with a telecommunications and computer networking option.

This program is eligible for the Southeast A+ Scholarship.

Career Planning

A St. Louis Outreach Office, located in Chesterfield, Mo., provides career exploration assistance, resume critiques, interview tips, job search strategies and more.

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.
<p>Career Services, located in Academic Hall 057, provides professional career advising to guide students in their career development.</p>		

Career Opportunities

- Information Technology Specialist
- Network Administrator/Specialist
- Network Manager
- System Administrator
- Telecommunications Specialist
- Technical Specialist

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.

Degree Map

CURRICULUM CHECKLIST

Computer Technology: Microcomputer Systems – 70 hours

Required Courses:

- EN 100 English Composition I (3)
- OR
- EN 140 Rhetoric & Critical Thinking (3)
- IM 102 Technical Communications (3)
- IM 301 Industrial Safety Supervision (3)
- IM 419 Industrial Supervision (3)
- MA 133 Plane Trigonometry (3)
- MA 134 College Algebra (3)
- MN 260 Technical Computer Programming (3)
- PH 120 Introductory Physics I (5)
- PH 121 Introductory Physics II (5)
- PS 103 U.S. Political Systems (3)
- SC 105 Fundamentals of Oral Communications (3)

Microcomputer Systems option

- ET 160 Basic Electricity & Electronics (3)
- ET 245 Logic Circuits (3)
- IM 317 Industrial Internship (3)
- OR
- CY 201 Introduction to Cybersecurity (3)
- TN 254. Fiber Optics & Network Communication (3)
- TN 255 Microcomputer Maintenance & Troubleshooting (3)
- TN 275 Network Fundamentals (3)
- TN 375 Network Routing Protocols & Concepts(3)
- TN 395 Server Maintenance & Troubleshooting (3)
- TN 425 Wireless Communication & Mobile Data Networks (3)
- TN 435 Network Security (3)
- TN 563 LAN Switching (3)

SAMPLE 5 SEMESTER PLAN

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Requirements for the 2014-2015 Undergraduate Bulletin

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	EN100 or EN140	3	IM102	3
	ET160	3	MN260	3
	MA133	3	PH120	5
	MA134	3	TN275	3
	PS103	3		
Total	15		Total	14

SECOND YEAR	ET245	3	TN254	3
	IM301	3	TN375	3
	PH121	5	TN395	3
	TN255	3	TN435	3
	TN425	3		
Total	17		Total	12

THIRD YEAR	IM317 or CY201	3		
	IM419	3		
	SC105	3		
	TN563	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
11/18/2013

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