

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 these 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.

Career Planning

Career preparation is part of the mission of Southeast. 100% of programs offer our students an internship, study-abroad program, clinical opportunity, student teaching or research internship.

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

Career Opportunities

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

AAS to BS Options

The following Bachelor of Science degree programs can be easily transitioned into after completion of the AAS degree:

- Technology Management: Telecommunications & Computer Networking 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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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: Microcomputer Systems – 70 hours

Required Courses:

- EN 100 English Composition I (3)
- OR**
- EN 140 Rhetoric & Critical Thinking (3)
- IM 300 Technical Communications (3)
- IM 301 Industrial Safety Supervision (3)
- IM 419 Industrial Supervision (3)
- MA116 Precalculus A (3)
- MA117 Precalculus B (3)
- MN 260 Technical Computer Programming (3)
- OR**
- CS 155 Computer Science I (4)
- 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)
 - TN 255 Microcomputer Maintenance & Troubleshooting (3)
 - TN 275 Introduction to Networks (3)
 - TN 375 Routing and Switching Essentials (3)
 - TN 395 Server Maintenance & Troubleshooting (3)
 - TN 425 Wireless Communication & Mobile Data Networks (3)
 - TN475 Scaling Networks (3)
 - TN 563 Connecting Networks (3)
- Choose 6 hours from:
- CY 201 Introduction to Cybersecurity (3)
 - IM 317 Industrial Internship (3)
 - TN 435 Network Security (3)

SAMPLE FIVE-SEMESTER PLAN

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	EN100 or EN140	3	IM300	3
	ET160	3	MN260 or CS155	3-4
	MA116	3	PH120	5
	MA117	3	PS103	3
	TN255	3	TN375	3
	TN275	3		
	Total	18	Total	17-18

SECOND YEAR	ET245	3	SC105	3
	IM301	3	TN395	3
	PH121	5	TN435	3
	TN425	3	TN563	3
	TN475	3		
	Total	17	Total	12

THIRD YEAR	IM317 or CY201	3		
	IM419	3		
	Total	6		

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