

Computer Technology-Networking



Programs of Study

Automotive
Building Construction
Business Management-Career Option
Business Management-Transfer Option
Business Management-Small Business
Career Studies
Computer Repair Technology
Computer Technology—Coding Option
Computer Technology—Networking
Criminal Justice
Culinary Arts
Diesel, Truck & Heavy Equipment
Digital Graphic Design
Early Childhood Education
Education-Career & Technical Education
Education-Elementary Education
Education-Experiential Education
Education-Secondary Education
Electrical and Automation Technology
Electricians Technology
Emergency Medical Services
Fine Woodworking & Cabinet Making
Fire Science
Human Services
Liberal Studies
Medical Assistant
Medical Office Technology
Medical Office Technology-Coding Option
Medical Office-Health Care Secretary
Medical Radiography
Nursing
Plumbing
Refrigeration, Air Conditioning & Heating
Restaurant & Food Service Management
Substance Abuse Rehabilitation Tech
Surgical Technology
Trade & Technical Occupations
Welding

Admissions Office—EMCC

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PROGRAM DESCRIPTION

The computer technology field is ever-growing, requiring motivated problem solvers in today's technology driven world. The associate in applied science degree in Computer Technology-Networking is designed to prepare students for entry-level positions as IT Support Specialists and Network Technicians.



Students will receive a solid foundation in the day-to-day operation, installation and support of an organization's computer system. The use of data communications is not limited to businesses, it is part of our everyday life as our handheld devices provide more services to the individual. With the ever-changing landscape of today's networks students will explore local area networks, wide area networks, intranets, internets, and other data communications systems.

Graduates are prepared to assume a variety of positions such as: desktop support, help desk technician, network installer, network technician, network administrator, information security, network security, and technology trainer.

The certificate program in Computer Repair Technology (CRT) prepares the successful student for an entry-level position in the field of computer repair. Students are provided with a solid foundation in personal computer hardware, operating systems, and data communications through theory classes and hands-on experiences in the laboratory. Courses in computer applications (software) are provided to augment student knowledge of computer systems. Mathematics and communications courses give students the power to relate their understanding of computer systems to other professionals and to computer owners in need of repair services.

Graduates of the certificate program find work in a variety of organizations that are in need of maintenance and repair of computers. This encompasses a variety of positions such as: computer systems technician, computer technician, and computer maintenance technician.

The certificate may be used as a pathway for students who may later want to enter an associate in applied science degree in Computer Technology at EMCC.

KEY LEARNING OBJECTIVES

Graduates with the associate in applied science degree should be able to:

- install, configure, troubleshoot, maintain, and upgrade personal computer systems hardware and software;
- effectively design and manage networks and efficiently operate them;
- interact appropriately with customers, co-workers, and the public in a service oriented industry;
- apply appropriate security measures and practices.

Graduates with the certificate should be able to:

- install, configure, troubleshoot, maintain, and upgrade personal computer systems hardware and software;
- effectively design/manage networks and efficiently operate them;
- interact appropriately with customers, co-workers, and the public in a service-oriented industry;
- apply appropriate security measures and practices.

PREREQUISITES

Certificate & AAS Degree-high school level Algebra I required. Algebra II desired.

COMPUTER TECHNOLOGY-Networking Associate in Applied Science Degree

FIRST SEMESTER		CREDITS
CST 101	Introduction to College Learning <u>or</u> FYE 100 College Success	1
CST 103	Introduction to Computer Systems	3
CST 114	Computer Hardware	3
CST 143	Web Applications and Development	3
ENG 101	College Composition	3
MAT 116	College Algebra	3
SECOND SEMESTER		CREDITS
CST 113	Operating Systems	3
CST 162	Network+ Certification	4
CST 170	Customer Service Concepts	3
Restricted		
Elective	Any Math/Science (100 level or higher)	3
SPE 101	Oral Communication	3
THIRD SEMESTER		CREDITS
CST 203	Network Administration	3
CST 232	Server Operating Systems	3
Restricted	CST 235 Database Systems <u>or</u>	
Elective	CST 251 Cloud Computing I	3
Restricted		
Elective	Any Humanities or Social Science	3
Elective	Any General Education Course (100 level or higher)	3
FOURTH SEMESTER		CREDITS
Restricted	CST 221 Network Security <u>or</u>	
Elective	CST 240 Data Mining	3
CST 226	Wireless Networking	3
CST 246	Virtualized Computer Systems	3
CST 248	Capstone	1
Restricted		
Elective	Any Humanities or Social Science	3
TOTAL AAS DEGREE CREDITS		60

COMPUTER TECHNOLOGY-Computer Repair Technology Certificate

FIRST SEMESTER		CREDITS
CST 101	Introduction to College Learning <u>or</u> FYE 100 College Success	1
CST 103	Introduction to Computer Systems	3
CST 114	Computer Hardware	3
CST 143	Web Applications and Development	3
ENG 101	College Composition	3
MAT 116	College Algebra	3
SECOND SEMESTER		CREDITS
CST 113	Operating Systems	3
CST 162	Network+ Certification	4
CST 170	Customer Service Concepts	3
Restricted		
Elective	Any Math/Science (100 level or higher)	3
SPE 101	Oral Communication	3
TOTAL CERTIFICATE CREDITS		32

STILL IN HIGH SCHOOL? Concurrent enrollment agreements with many high schools and technical education centers are available. Information can be found at <http://www.emcc.edu/academics/programs/dual-enrollment/>.

DID YOU KNOW?

EMCC provides campus housing
for over 260 students.



EMCC's Student Success Center
offers tutoring services free of
charge to our students.



EMCC's Athletic Department
sponsors many on-
campus intramural
sports and
recreational events.

EMCC students enjoy small class
sizes, supportive faculty,
transferable courses and
leadership/engagement
opportunities all for under \$4,000
per year

(most programs, based on 30 credit
hours, in-state rate)

Campus tours are available.

Call 207-974-4857 or schedule an
appointment through our website.

For more information or to apply
online, visit us on the web at

www.emcc.edu

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latest EMCC news!



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EMCC is an equal opportunity/affirmative
action institution and employer. For more info,
please call 207-974-4633.