

Computer Systems Technology

PROGRAM DESCRIPTION



The Computer Technology field is ever growing and changing, requiring motivated problem solvers in today's technology driven world. The Computer Systems Technology Associate in Applied Science Degree program is designed to prepare students for entry-level positions within Information Technology (IT).

Students will receive a solid foundation in a variety of different areas including systems hardware and software, network design and management, customer service, and information security.

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.

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.

COMPUTER REPAIR TECHNOLOGY PROGRAM DESCRIPTION

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 hardware and software, basic networking, and coding. Graduates are prepared to assume a variety of positions such as: desktop support, help desk technician, and computer maintenance.

The Computer Repair Certificate may be used as a pathway for students who may later want to enter the Associate in Applied Science Degree in Computer Systems Technology.

PREREQUISITES

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

Certificate-high school level Algebra I required. Algebra II desired.

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/>.

EMCC has developed articulation agreements with several colleges/universities to provide seamless transfer opportunities for students moving on to earn a Bachelor's Degree. Our formalized agreements can be found at <http://www.emcc.edu/beyond-emcc/transfer-agreements/>.



Programs of Study

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

Admissions Office—EMCC

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Toll-Free: 800-286-9357 (in Maine)

FAX: 207-974-4683

Email: admissions@emcc.edu

www.emcc.edu

COMPUTER SYSTEMS TECHNOLOGY 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 123 PC Hardware and Operating Systems	3
CST 143 Web Applications and Development	3
ENG 101 College Composition	3
MAT 119 College Algebra	3

SECOND SEMESTER

CST 124 An Introduction to Linux	3
CST 162 Network+ Certification	4
CST 163 Computer Applications	4
MAT 120 College Trigonometry <u>or</u> MAT 161 Introduction to Statistics	3
SPE 101 Oral Communication	3

THIRD SEMESTER

CST 203 Systems Analysis and Design	3
CST 205 Network Architecture	3
CST 232 Server Operating Systems	3

Restricted

Elective Any Humanities or Social Science (100 level or higher)	3
PSY 211 Human Relations	3

FOURTH SEMESTER

CST 221 Network Security	3
CST 226 Wireless Networking	3
CST 246 Virtualized Computer Systems	3
CST 248 Capstone	1
PHY 108 Survey of Applied Physics	4

TOTAL AAS DEGREE CREDITS **62**

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 123 PC Hardware and Operating Systems	3
CST 143 Web Applications and Development	3
ENG 101 College Composition	3

Restricted

Elective MAT 113 Technical Mathematics I <u>or</u> MAT 119 College Algebra	3
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SECOND SEMESTER

CST 124 An Introduction to Linux	3
CST 162 Network+ Certification	4
CST 163 Computer Applications	4
Restricted	
Elective MAT 114 Technical Mathematics II <u>or</u> MAT 120 College Trigonometry <u>or</u> MAT161 Statistics	3

Restricted

Elective ENG 215 Business and Technical Writing <u>or</u> PSY 211 Human Relations <u>or</u> SPE 101 Oral Communication	3
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TOTAL CERTIFICATE CREDITS **33**

Graduates of the Computer Repair certificate may request to continue with second-year Computer Systems degree courses and earn that credential. See advisor for details.

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.