

CYBERSECURITY/COMPUTER SYSTEMS ASSOCIATE OF APPLIED SCIENCE

See our website at www.msubillings.edu/careers (<http://www.msubillings.edu/careers/>) for graduate data.

Before a student can be accepted into the program, competency in mathematics and computers must be demonstrated. This may be done by:

- transferring of appropriate credits
- completing the computer literacy challenge test
- obtaining permission of CST faculty
- taking prerequisite course (CAPP 120)
- possessing current ACT/SAT scores in the required range
- taking the necessary prerequisite English, math and/or computer classes identified in the catalog

Check with an academic advisor to determine how you can meet these requirements. Students should check the course descriptions for required prerequisites.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Troubleshoot and repair computer hardware.
- Set up operating systems and troubleshoot software.
- Set up and document secure networks.

Required Courses

Code	Title	Credits
CAPP 156	MS Excel	3
COMX 106	Comm in a Dynamic Workplace	3
CSCI 100	Intro to Programming	3
CSCI 240	Databases and SQL	3
ITS 212	Network Operating Sys-Server A	3
ITS 210	Network OS - Desktop	3
ITS 217	Network OS - Server Admin/Apps	3
ITS 224	Introduction to Linux	3
ITS 226	Advanced Linux	3
ITS 233	Introduction to Dev-Ops	3
ITS 245	Computer Forensics	3
ITS 246	Cybersecurity Operations	3
ITS 256	CCNA Security	3
ITS 257	Intro to Comp Virtualization	3
ITS 280	Computer Repair & Maintenance	3
ITS 299	Capstone	3
M 114	Extended Technical Mathematics	3
NTS 104	CCNA 1: Intro to Networks	3
NTS 105	CCNA 2: Routing & Switching Es	3
NTS 204	CCNA 3: Scaling Networks	3
WRIT 121	Intro to Technical Writing	3
Restricted Electives		
Select one from the following:		3

CSCI 116	Python Programming
CSCI 211	Client Side Programming
CSCI 214	Server-Side Web Prog & Admin
ITS 291	Special Topics
ITS 298	Cooperative Educ/Internship

Total Minimum Credits 66

Suggested Plan of Study

Code	Title	Credits
First Semester		
COMX 106	Comm in a Dynamic Workplace	3
CSCI 100	Intro to Programming	3
CSCI 240	Databases and SQL	3
ITS 210	Network OS - Desktop	3
ITS 280	Computer Repair & Maintenance	3
M 114	Extended Technical Mathematics	3
Total		18
Second Semester		
CAPP 156	MS Excel	3
ITS 212	Network Operating Sys-Server A	3
ITS 224	Introduction to Linux	3
NTS 104	CCNA 1: Intro to Networks	3
WRIT 121	Intro to Technical Writing	3
Total		15
Third Semester		
ITS 217	Network OS - Server Admin/Apps	3
ITS 246	Cybersecurity Operations	3
ITS 226	Advanced Linux	3
ITS 233	Introduction to Dev-Ops	3
NTS 105	CCNA 2: Routing & Switching Es	3
Total		15
Fourth Semester		
ITS 245	Computer Forensics	3
ITS 256	CCNA Security	3
ITS 257	Intro to Comp Virtualization	3
NTS 204	CCNA 3: Scaling Networks	3
ITS 299	Capstone	3
Restricted Elective		3
Total		18