

CYBERSECURITY/NETWORK TECHNOLOGY ASSOCIATE OF SCIENCE PROGRAM OF STUDY

This program is the combination of technical networking technology courses and General Education requirements for an Associate of Science degree. This will allow students with previous General Education credits, or who have strong experience, to gain a more diversified degree. The mixture of the courses gives students the ability to transition smoothly into a four-year degree, or to enter employment with a well-rounded degree. See our website at www.msubillings.edu/careers (<http://www.msubillings.edu/careers/>) for graduate data.

Students should consult with an academic advisor before registering for General Education courses.

Program Learning Outcomes

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

- Implement and maintain basic network infrastructure equipment and software.
- Design a work breakdown structure for a basic IT-related project.
- Perform cybersecurity incident response procedures.
- Identify and compute the length of the critical path for a given project plan.
- Explain the purpose of standard security controls when planning a cybersecurity strategy.

Required Courses

Code	Title	Credits
General Education Requirements (https://catalog.msubillings.edu/cc/general-education-requirements/)		31
Students should consult with an academic advisor before registering for General Education courses.		
Required Technical Courses		
CAPP 120	Introduction to Computers	3
CSCI 100	Intro to Programming	3
ITS 166	Configuring MS Windows 10	3
ITS 212	Network Operating Sys-Server A	3
ITS 233	Introduction to Dev-Ops	3
ITS 245	Computer Forensics	3
ITS 246	Cybersecurity Operations	3
ITS 276	Ethical Hacking & Network Def	3
NTS 104	CCNA 1: Intro to Networks	3
NTS 105	CCNA 2: Routing & Switching Es	3
Subtotal		30
Total Minimum Credits		61

Suggested Plan of Study

Code	Title	Credits
First Semester		
CAPP 120	Introduction to Computers	3
CSCI 100	Intro to Programming	3
ITS 166	Configuring MS Windows 10	3
Gen Ed Courses		7
Total		16

Second Semester		
ITS 212	Network Operating Sys-Server A	3
NTS 104	CCNA 1: Intro to Networks	3
Gen Ed Courses		9
Total		15
Third Semester		
ITS 233	Introduction to Dev-Ops	3
NTS 105	CCNA 2: Routing & Switching Es	3
Gen Ed Courses		9
Total		15
Fourth Semester		
ITS 245	Computer Forensics	3
ITS 246	Cybersecurity Operations	3
ITS 276	Ethical Hacking & Network Def	3
Gen Ed Courses		6
Total		15