Cybersecurity – Certificate
30 Credits
Fall 2024

Student:
Advisor:

This certificate is for those who have industry experience or are currently nearing completion of an Information Technology field degree. Students will learn general skills related to network security and then expand those skills to more focused areas. Throughout the course work, students review and apply network security practices using multiple operating systems. Areas of focus include penetration testing, perimeter defense and Web security. The certificate will prepare students for the CompTIA Security+ certification and preparation for a job in network security.

This is the plan of study for students starting the in the fall.

Semester 1 Recommendations

Course	Course Title	Prerequisites	Completed/Notes
CPTR 1040	Introduction to Programming Logic	None	
CPTR2224	Linux 1	None	
CPTR1108	Cisco 1	None	

Semester 2 Recommendation

Course	Course Title	Prerequisites	Completed/Notes
CPTR1118	Cisco 2	CPTR1108	
CSEC1110	Fundamentals of IT Security	None	

Semester 3 Recommendations

Course	Course Title	Prerequisites	Completed/Notes
CPTR2240	Database Administration	CPTR1001 or 1040	
CPTR2234	Linux 2	CPTR2224	
CPTR1001	Introduction to Programming & Scripting	None	

Semester 4 Recommendations

Course	Course Title	Prerequisites	Completed/Notes
CSEC2228	Network Defense	CSEC1110	
CSEC2210	Security Breaches and Countermeasures	CSEC1110	

Web Sites:
http://www.minnesota.edu
http://brazil.minnesota.edu