

CYBERSECURITY C.T.S.

The Certificate of Technical Studies in Cybersecurity is meant to provide individuals with technical education in information assurance. The curriculum is based upon the Core Knowledge Units developed by the National Security Agency (NSA) and the Department of Homeland Security (DHS). Students will gain skills in basic data analysis; programming; networking concepts; IT systems components; system administration; fundamental security design principles; cyber-threats and cyber-defense; cryptography; and policy, legal, ethics and compliance.

This certificate is a subset of courses leading to the Associate of Applied Science in Information Technology's concentration in Network Administration & Security and also to a BS in Management Information Systems.

The NSA and DHS have designated Missoula College as a National Center of Academic Excellence in Cyber-Defense Two-Year Education (CAE2Y). Those students completing the list of courses: CSCI 105, CSCI 172, CSCI 215E, ITS 150, ITS 214, ITS 222 will receive special recognition indicating completion of an NSA and DHS approved Cybersecurity CAE program of study.

Certificate of Technical Studies - Cybersecurity Missoula College

Degree Specific Credits: 18

Required Cumulative GPA: 2.0

Catalog Year: 2018-2019

Note: All students are required to take at least one course at Missoula College from the following list: CSCI 215E, ITS 150, or ITS 222.

Summary

Code	Title	Hours
	Programming	3
	Data Analysis	3
	Policy, Legal, Ethics and Compliance	3
	Networking & IT Systems Components	3
	System Administration	3
	Security Design Principles, Cyber Threats/Defense, and Cryptography	3
	Total Hours	18

Programming

Note: Only Mountain Campus students are eligible to register for BMIS 365.

Code	Title	Hours
Complete one of the following courses:		3
CSCI 105	Computer Fluency	
CSCI 135	Fund of Computer Science I	
BMIS 365	Business App Development	
	Total Hours	3

Minimum Required Grade: C-

Data Analysis

Code	Title	Hours
Complete the following course:		
CSCI 172	Intro to Computer Modeling	3
	Total Hours	3

Minimum Required Grade: C-

Policy, Legal, Ethics and Compliance

Note: Only Mountain Campus students are eligible to register for ACTG 321.

Code	Title	Hours
Complete one of the following courses:		3
CSCI 215E	Social & Ethical Issues in CS	
ACTG 321	Acct Information Systems I	
	Total Hours	3

Minimum Required Grade: C-

Networking & IT Systems Components

Code	Title	Hours
Complete the following course:		
ITS 150	CCNA 1: Exploration	3
	Total Hours	3

Minimum Required Grade: C-

System Administration

Note: Only Mountain Campus students are eligible to register for BMIS 471.

Code	Title	Hours
Complete one of the following courses:		3
ITS 210	Network OS - Desktop	
ITS 214	Network OS - Infrastructure	
BMIS 471	Fund of Network & Security Management	
	Total Hours	3

Minimum Required Grade: C-

Security Design Principles, Cyber Threats/Defense, and Cryptography

Note: Only Mountain Campus students are eligible to register for BMIS 472.

Code	Title	Hours
Complete one of the following courses:		3
ITS 222	Enterprise Security	

