

CYBERSECURITY

The Cybersecurity minor focuses on the field of information security, which deals with the processes and methodologies that are designed and implemented to protect data from unauthorized access, misuse, modification, and disruption. In today's highly connected world our sensitive data and systems are increasingly in peril, and there is a growing need for knowledgeable professionals who can develop, use, and manage best practices and tools. This presents an opportunity for students in a variety of majors who are passionate about cybersecurity.

The minor provides students with a broad introduction to current cybersecurity topics. It not only gives the student a solid foundation in security fundamentals but also flexibly combines with a number of majors, such as Business, Computer Science, and Mathematics. This allows the student to position him or herself for a particular area of the cybersecurity job market, from managerial to software development. The minor includes in-depth and hands-on exposure to several key areas of information/cybersecurity such as system/OS security, penetration testing, and software security, thus allowing the student to obtain hands-on practical experience in these areas.

Minor Requirements

Code	Title	Credits
CPSC 220	Computer Programming and Problem Solving	4
CPSC 414	Network Principles & Application	3
CPSC 345	Introduction to Computer Security	3
or MIST 411	Information Security	
Select one of the following:		3
CYBR 461	Cyber Certificate Studies : Ethical Hacking	
CYBR 470	Special Topics in Cybersecurity	
CPSC 445	Software Security	
Select one of the following:		3
CPSC 302	Computer Ethics	
BUAD 464	Business Ethics	
PHIL 225	Practical Ethics	
Total Credits		16

Cybersecurity Program

Andrew Marshall, Program Coordinator, Department of Computer Science

Affiliated Faculty

Randall Helmstutler, Department of Mathematics

Kimberley Kinsley, College of Business

Veena Ravishankar, Department of Computer Science

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