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
CYBR 345	Introduction to Computer Security	3
Select two of the following:		6
CYBR 435	Advanced Cybersecurity	
CYBR 445	Software Security	
CYBR 458	Network Security	
CYBR 461	Cyber Certificate Studies : Ethical Hacking	
CYBR 470	Special Topics in Cybersecurity	
CYBR 491	Individual Study in Cybersecurity	
Total Credits		**16**

Cybersecurity Program

Andrew Marshall, Program Coordinator

Affiliated Faculty

Randall Helmstutler, Mathematics
Kimberley Kinsley, Business
Veena Ravishankar, Computer Science
Mukesh Srivastava, Business
Xin-Wen Wu, Computer Science