

## Cyber Defense (CBD)

- Major: 60 credit hours
- Minor: 23 credit hours
- Major/Minor GPA required for graduation: 2.25

### PROGRAM REQUIREMENTS:

- Capstone: Practicum in Cyber Defense

**Description of Major:** Students in this major have the opportunity to gain knowledge and develop skills related to the protection of information and intellectual property in the public and private sectors. Courses align with the guidelines suggested by the National Initiative for Cybersecurity Education (NICE). The initiative focuses on securely provisioning, operating and maintaining, and overseeing and governing information technology systems and networks from a cyber-defense perspective to protect and defend information and intellectual property.

### Student Learning Outcomes

*Students will:*

- Demonstrate understanding of the concepts and designs of secure information technology systems.
- Demonstrate understanding of the support, administration, and maintenance necessary to ensure effective and efficient defense of information and intellectual property.
- Demonstrate understanding of the leadership, management, direction, and development needed to advocate effectively for the cyber-defense needs of public and private organizations.
- Demonstrate the ability to analyze, identify, and mitigate threats to internal information technology systems and/or networks.
- Demonstrate an understanding of the process of evaluating and collecting data/information to develop useful cyber-defense intelligence.

**Preparation:** The major in cyber defense provides students the educational foundation to succeed in the ever-growing field of cyber defense. This major prepares students to work as analysts, investigators, consultants, and managers in public and private-sector organizations seeking to protect their sensitive information, intellectual property, and information technology systems and networks.

<b>CYBER DEFENSE MAJOR</b>		<b>60 crs.</b>	
<b>BUSINESS CORE REQUIREMENTS</b>		<b>40 crs.</b>	
ACC 205	PRINCIPLES OF FINANCIAL ACCOUNTING	(3)	
ACC 230	PRINCIPLES OF MANAGERIAL ACCOUNTING	(3)	
ECO 211	PRINCIPLES OF MICROECONOMICS	(3)	
ECO 212	PRINCIPLES OF MACROECONOMICS	(3)	
BUS 303	BUSINESS LAW I	(3)	
<i>or</i>			
BUS 304	BUSINESS LAW II	(3)	
BUS 324	BUSINESS ETHICS AND CORPORATE SOCIAL RESPONSIBILITY (W)	(3)	(3)
FIN 308	PRINCIPLES OF BUSINESS FINANCE	(3)	
MTH 170	STATISTICS	(4)	
BUS 310	QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS	(3)	
MGT 204	PRINCIPLES OF MANAGEMENT	(3)	
MKT 205	PRINCIPLES OF MARKETING	(3)	
BUS 410	MANAGEMENT INFORMATION SYSTEMS	(3)	
<i>or</i>			
ACC 220	ACCOUNTING INFORMATION SYSTEMS	(3)	
BUS 450	BUSINESS STRATEGY AND POLICY	(3)	
<b>CYBER DEFENSE MAJOR REQUIREMENTS</b>		<b>20 crs.</b>	
CSI 130	INTRODUCTION TO COMPUTING I	(5)	
CBD 330	INTRODUCTION TO CYBER DEFENSE	(3)	

CBD 332	CYBER DEFENSE NETWORKING	(3)
CBD 334	LEGAL AND ETHICAL ENVIRONMENT OF CYBER DEFENSE	(3)
CBD 336	CYBER RISK MANAGEMENT AND MITIGATION	(3)
CBD 451	PRACTICUM IN CYBER DEFENSE	(3)

**CYBER DEFENSE MINOR****23 crs.**


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*The minor in cyber defense is available to students in any major. To receive the minor, students must complete the required courses listed below.*

BUS 410	MANAGEMENT INFORMATION SYSTEMS	(3)
CSI 130	INTRODUCTION TO COMPUTING I	(5)
CBD 330	INTRODUCTION TO CYBER DEFENSE	(3)
CBD 332	CYBER DEFENSE NETWORKING	(3)
CBD 334	LEGAL AND ETHICAL ENVIRONMENT OF CYBER DEFENSE	(3)
CBD 336	CYBER RISK MANAGEMENT AND MITIGATION	(3)
MGT 204	PRINCIPLES OF MANAGEMENT	(3)

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