MOUNT MARY UNIVERSITY

CYBERSECURITY
SCHOOL OF ARTS & SCIENCES

Securing the Future Together, Cultivating the Cybersecurity Leaders of Tomorrow

Ready to shape the future of cybersecurity? Our program is dedicated to fostering leaders who are committed to innovation and forward-thinking strategies. We empower aspiring professionals with a rigorous curriculum and practical experiences in the context of a business program, preparing them to both secure digital landscapes and lead teams in the future.

In today's digital age, constant digital threats pose risks to individuals, corporations, and government systems. Advanced cyber threats are omnipresent, demanding proactive measures to counter these challenges. In this program, students will learn how to anticipate and counteract evolving cyber threats, in addition to fundamental IT skills that are essential for cybersecurity roles in the 21st century.

Introduction to Cybersecurity:

Begin your cybersecurity journey by exploring the fundamental concepts, terminology, and principles of safeguarding digital landscapes. Gain a comprehensive understanding of cybersecurity's pivotal role in protecting information and systems.

Cybercrime and Governance:

Delve into cyber law, ethics, and regulatory frameworks shaping digital landscapes. In this course, you'll also explore the intricate web of cybercrime, governance strategies, and the implications of cybersecurity practices.

Modern Cybersecurity:

Uncover the latest advancements in cybersecurity strategies, tools, and tactics. You'll engage with cutting-edge technologies and methodologies crucial for defending against cyber threats in today's dynamic digital terrain.

Network and System Security:

Immerse yourself in the intricate architecture of networks and systems, where you'll master techniques to protect against cyber intrusions. You'll also learn how to identify vulnerabilities and implement robust security measures to protect digital assets.

Cyber Forensics:

Learn the art of cyber investigation, evidence collection, and analysis to unravel data breaches. Gain hands-on experience in preserving digital evidence crucial for cybercrime investigations.

EXCELLENT JOB PLACEMENT RECORD

There is a soaring demand for cybersecurity professionals and potential earnings. In addition, there is a zero percent unemployment rate, along with substantial numbers of unfilled positions!

- Cybersecurity Analyst
- Benefits Specialist Manager
- Information Security Consultant
- Ethical Hacker/Penetration Tester (PenTester)
- Security Architect
- Incident Responder
- Security Software Developer
- Cryptographer
- Security Compliance Analyst
- Forensic Computer Analyst
- Security Operations Center (SOC) Analyst

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EXAMPLE FOUR-YEAR PLAN

CYBERSECURITY | 120 CREDITS

MAJOR	CORE	MINOR	ELECTIVES

FRESHMAN YEAR

FALL Courses		SPRING Courses	
FYS 100 First Year Seminar	3	ENG 120 College Research Writing	3
ENG 110 Intro to College Writing	3	Artistic Inquiry Core	3
COM 105 Professional Presentations	3	Civic Engagement Core	4
MAT 105 Algebra I	4	ITS 101 Programming for Everyone I	4
BUS 109 Data and Digital Literacy	3	PSY 103 Introductory Psychology	2
TOTAL	16 credits	TOTAL	16 credits

SOPHOMORE YEAR

FALL Courses		SPRING Courses	
Human Connection Core	3	Scientific Inquiry Core	3
Global Perspectives Core	3	BUS 362 Principles of Management	3
ITS 102 Programming for Everyone II	4	ITS 265 Career Navigation and Exploration	3
ITS 240 Introduction to Cybersecurity	3	ITS 340 Network and System Security	4
Minor/Elective	3	Minor/Elective	3
TOTAL	15 credits	TOTAL	15 credits

JUNIOR YEAR

FALL Courses		SPRING Courses	
BUS 205 Personal Finance	3	Theology Course	3
ENG 419 Technical & Business Communication	3	BUS 335 Management Information Systems	3
ITS 341 Cybercrime and Governance	3	BUS 375 Business Law	3
ITS 440 Security Operations	3	ITS 441 Ethical Hacking	3
Minor/Elective	3	ITS 450 The Future of Cybersecurity	3
TOTAL	15 credits	TOTAL	15 credits

SENIOR YEAR

FALL Courses		SPRING Courses	
ITS 494 Cybersecurity Capstone	3	ITS 498 Internship	3
Minor/Elective	3	Minor/Elective	3
Minor/Elective	3	Minor/Elective	3
Minor/Elective	3	Minor/Elective	3
Minor/Elective	3	Minor/Elective	3
TOTAL	15 credits	TOTAL	15 credits

UPDATED OCTOBER 2024

This example four-year plan is intended to outline the number and types of courses a student might take in order to fulfill the degree, major, core and elective requirements to graduate. Students meet with their academic advisor each semester to review progress toward fulfilling their degree requirements.

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