

Bachelor of Science - Cybersecurity

Course	Course Title	CYSCB1	CYSCB2	CYSCB3	CYSCB4	CYSCB5	CYSCB6	CYSCB7	CYSCB8	ILO1	ILO2	ILO3	ILO4	ILO5
ENG 220	Research Writing	X								X				X
ISEC 300	Information Assurance		X											X
ISEC 325	Communication & Network Security			X							X			X
ISEC 350	Security Risk Management				X						X		X	X
ISEC 400	Software Development Security					X					X			X
ISEC 375	Digital Forensics & Incident Response						X				X			X
ISEC 475	Security Engineering & Assessment							X			X			X
ISEC 495	Cyber Security Capstone	X	X	X	X	X	X	X	X	X	X		X	X

Institution Learning Outcomes

- ILO1 Communication: Communicate professionally using a variety of modalities (written, spoken, and technological).
- ILO2 Critical Thinking: Analyze and evaluate information to make reasoned arguments and solve problems.
- ILO3 Civic & Global Engagement: Integrate knowledge and skills to engage with and respond to social, environmental, and economic challenges at local, national, and global levels.
- ILO4 Ethics: Analyze and evaluate complex issues and situations to make informed ethical decisions.
- ILO5 Disciplinary Expertise

Program Learning Outcomes

- CYSCB1 Communicate effectively for a range of purposes and audiences
- CYSCB2 Describe the breadth of the information security field and its impact on business
- CYSCB3 Employ firewalls, VPNs, and stateful packet inspection techniques to harden networks.
- CYSCB4 Identify and analyze, determine impacts, and develop plans to mitigate security risks.
- CYSCB5 Identify and correct programming and software architecture mistakes that lead to application security vulnerabilities
- CYSCB6 Identify, acquire, analyze, and report on evidence gathered from cyber intrusions and incidents using appropriate legal and ethical procedures
- CYSCB7 Develop a consistent and strategic balance among business needs, security policy, industry and regulatory standards, and technology for overall information security architecture
- CYSCB8 Be prepared to compete successfully in securing employment or progressing in their chosen field.