

Program of Study (PoS): Bachelor of Science in Computer Science – Cybersecurity Concentration Track

Bachelors Technical CAE-CD (Total 22 KUs)

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PoS Courses in KU Alignment	Foundational			Technical Core					Optional													
	CSF	CSP	ISC	BSP	BNW	NDF	BCY	OSC	ALG	BCO	CCR	CSE	DVF	IDS	MOT	NWF	NTP	PTT	PRI	ACR	DST	NSA
COMP 3332 Cryptography	X	X				X	X													X		
COMP 4323 Network Security	X		X			X				X				X		X	X					X
COMP 4331 Computer Forensics			X					X				X	X	X								X
COMP 4333 Ethical Hacking & Penetration Testing			X			X				X	X	X		X				X				
COMP 2313 Introduction to Information Security	X	X	X			X		X						X								X
COMP 3331 Information Privacy		X	X			X						X		X					X			
COMP 4323 Mobile Security			X												X							
COMP 2314 Introduction to Java				X					X													
COMP 2315 Python Programming Language				X					X													
COMP 3306 Operating Systems								X														
COMP 4312 Computer Networks					X	X								X		X	X				X	X
COMP 2336 Data Structures																						

 Cybersecurity Foundational KUs (3)

 Technical Core KUs (5)

 Optional KUs (14)

Foundational CDE Knowledge Units

[Cybersecurity Foundations \(CSF\)](#)
[Cybersecurity Principles \(CSP\)](#)
[IT Systems Components \(ISC\)](#)

Core Technical CDE Knowledge Units

[Basic Cryptography \(BCY\)](#)
[Basic Networking \(BNV\)](#)
[Basic Scripting and Programming \(BSP\)](#)
[Network Defense \(NDF\)](#)
[Operating Systems Concepts \(OSC\)](#)

Core Non-Technical CDE Knowledge Units

[Cyber Threats \(CTH\)](#)
[Cybersecurity Planning and Management \(CPM\)](#)
[Policy, Legal, Ethics, and Compliance \(PLE\)](#)
[Security Program Management \(SPM\)](#)
[Security Risk Analysis \(SRA\)](#)

Optional Knowledge Units

[Advanced Algorithms \(AAL\)](#)
[Advanced Cryptography \(ACR\)](#)
[Advanced Network Technology and Protocols \(ANT\)](#)
[Algorithms \(ALG\)](#)
[Analog Telecommunications \(ATC\)](#)
[Basic Cyber Operations \(BCO\)](#)
[Cloud Computing \(CCO\)](#)
[Cyber Crime \(CCR\)](#)
[Cybersecurity Ethics \(CSE\)](#)
[Data Administration \(DBA\)](#)
[Data Structures \(DST\)](#)
[Database Management Systems \(DMS\)](#)
[Databases \(DAT\)](#)
[Device Forensics \(DVF\)](#)
[Digital Communications \(DCO\)](#)
[Digital Forensics \(DFS\)](#)
[Embedded Systems \(EBS\)](#)
[Forensic Accounting \(FAC\)](#)
[Formal Methods \(FMD\)](#)

[Fraud Prevention and Management \(FPM\)](#)
[Hardware Reverse Engineering \(HRE\)](#)
[Hardware/Firmware Security \(HFS\)](#)
[Host Forensics \(HOF\)](#)
[IA Architectures \(IAA\)](#)
[IA Compliance \(IAC\)](#)
[IA Standards \(IAS\)](#)
[Independent/Directed Study/Research \(IDR\)](#)
[Industrial Control Systems \(ICS\)](#)
[Introduction to Theory of Computation \(ITC\)](#)
[Intrusion Detection/Prevention Systems \(IDS\)](#)
[Life-Cycle Security \(LCS\)](#)
[Low Level Programming \(LLP\)](#)
[Media Forensics \(MEF\)](#)
[Mobile Technologies \(MOT\)](#)
[Network Forensics \(NWF\)](#)
[Network Security Administration \(NSA\)](#)
[Network Technology and Protocols \(NTP\)](#)
[Operating Systems Administration \(OSA\)](#)

[Operating Systems Hardening \(OSH\)](#)
[Operating Systems Theory \(OST\)](#)
[Penetration Testing \(PTT\)](#)
[Privacy \(PRI\)](#)
[QA/Functional Testing \(QAT\)](#)
[Radio Frequency Principles \(RFP\)](#)
[Secure Programming Practices \(SPP\)](#)
[Software Assurance \(SAS\)](#)
[Software Reverse Engineering \(SRE\)](#)
[Software Security Analysis \(SSA\)](#)
[Supply Chain Security \(SCS\)](#)
[Systems Certification and Accreditation \(SCA\)](#)
[Systems Programming \(SPG\)](#)
[Systems Security Engineering \(SSE\)](#)
[Virtualization Technologies \(VTT\)](#)
[Vulnerability Analysis \(VLA\)](#)
[Web Application Security \(WAS\)](#)
[Wireless Sensor Networks \(WSN\)](#)