

# Centers of Academic Excellence in Cyber Defense (CAE-CD)

## Foundational KU's

Cybersecurity Foundations	CSF
Cybersecurity Principles	CSP
IT Systems Components	ISC

## Technical Core KUs

Basic Cryptography	BCY
Basic Networking	BNW
Basic Scripting and Programming	BSP
Network Defense	NDF
Operating Systems Concepts	OSC

## Non-technical Core KUs

Cyber Threats	CTH
Cybersecurity Planning and Management	CPM
Policy, Legal, Ethics, and Compliance	PLE
Security Program Management	SPM
Security Risk Analysis	SRA

## Optional KU's

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
Linux System Administration	LSA
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
Windows System Administration	WSA
Wireless Sensor Networks	WSN