Cybersecurity Degree (CYBR)

Associate in Science Degree in Computer Studies and Information Processing (AS_COMI)

Available on all four campuses; daytime, evening or online.

The Cybersecurity program is designed to provide students with a strong foundation in the principles and methods of cybersecurity, as well as the fundamental knowledge and tools for applying security measures across a variety of network architectures and settings. In addition to serving as a strong foundation for pursuing a bachelor's degree in cybersecurity, this associate degree program will provide the educational background and hands-on training necessary to prepare students for entry in the cybersecurity sector. The curriculum includes a combination of general education, computer science and network technology courses to provide students with the knowledge, skills and training necessary for successful transition into a career in security, and to meet NSA and Centers of Academic Excellence core foundational content and standards.

Note: Students must earn a grade of at least C in all computer course requirements and must maintain a 2.0 GPA. Many courses require prerequisites, corequisites and/or testing. See course descriptions for details.

RECOMMENDED COURSE SEQUENCE

General Education Requirements

COURSE NO.	COURSE TITLE	COURSE NOTES	CREDITS
ENGL 1010	Composition I		3
MATH 1200	College Algebra		3
MATH 2110	College Trigonometry		3
MATH 1139	Mathematics for Liberal Arts Students		3
Social Science Elective		See this page for complete list of courses that fulfill the HUMN, MSCI or SSCI attribute.	6
Humanities Elective		See this page for complete list of courses that fulfill the SSCI attribute.	3
Total General Education Requirements Credits			21

For students pursuing the Cybersecurity Defense Path, course requirements are: COMI 1150, COMI 2036, COMP 1200, CNVT 1810, CNVT 1820, CNVT 2200.

Major Requirements

COURSE NO.	COURSE TITLE	COURSE NOTES	CREDITS
COMI 1150	Programming Concepts		3
COMP 1200	Database Design & Management		3
COMI 2035	Introduction to Computer Forensics		3
COMI 2036	Introduction to Computer Ethics		3
COMI 2037	Introduction to Cybersecurity		3
COMI 1800	Computer Networking Software Linux		3
CNVT 1810	Networking Technology		3
CNVT 1820	Intermediate Networking	CNVT 1810 must be taken prior to CNVT 1820.	3
CNVT 1830	LAN Design and Management	CNVT 1820 must be taken prior to CNVT 1830.	3
CNVT 2200	Network Security Hardware	CNVT 1820 must be taken prior to CNVT 2200.	4
CYBR 1100	Introductory Cyber Range Tools and Techniques		3
COMP 2500	Cybersecurity Practicum/Capstone Course	COMP 2500 requires instructor permission	3
Programming Language Elective		Take three credits from programming attribute PROG. See this page.	3
Total Major Requirements Credits			40

Total Program Credits 61