

CYBERSECURITY - ASSOCIATE OF APPLIED SCIENCE

(61-62 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Degree requires a minimum of **61 credit hours** and a cumulative GPA of 2.0.

NOTE: Students must earn a final grade of C- or better in all Major Requirements courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Semester 1		Credits
Area I: Communications - English Composition Level 1		4
ENGL 1110G	Composition I	
Area IV: Social/Behavioral Sciences		3
CJUS 1110G	Introduction to Criminal Justice	
CTEC 120 or OECS 185	IT Infrastructure Support I or PC Maintenance and Repair I	3
CTEC 130 or OECS 204	Linux Workstation or Linux Operating System	3
CTEC 140 or OECS 220	Introduction to Database Design or Database Application and Design	3
Credits		16
Semester 2		
General Education Elective - Area I: Communications - English Composition Level 2		3
ENGL 2210G	Professional & Technical Communication	
CTEC 135 or OECS 207	Windows Workstation or Windows	3
CTEC 180 or OECS 261	Introduction to Networking or Introduction to Networks	4
CTEC 230 or OECS 234	Introduction to Linux Server Administration or Linux Server	3
Technical Requirement Elective - Choose one from the following:		3
CTEC 115 or OECS 155	TOPICS IN IT or Special Topics - Introductory Computer Technology	
CTEC 127 or CTEC 145 or OECS 235	Introduction to Internet of Things or Introduction to Database Management or Structured Query Language (SQL)	
CTEC 150 or OECS 145	Mobile Application Programming or Mobile Application Development	
CTEC 152 or OECS 195	JAVA Programming or Java Programming I	

CTEC 154 or OECS 192	C++ Programming or C++ Programming I	
CTEC 156 or CTEC 158	Python Programming or Visual Basic Programming	
CTEC 220 or OECS 221	Internship or Internship I	
CTEC 280 or OECS 263	Scaling Networks or Network Fundamentals	
CTEC 285 or OECS 264	Connecting Networks or Network Routing Protocols	
CTEC 240 or CTEC 245 or CTEC 255 or OECS 255	Fundamentals of Database Management or Fundamentals of Cloud Based Data Systems or Special Topics or Special Topics	
CTEC 299 or OECS 299	Independent Study or Independent Study	
Credits		16
Semester 3		
Area II: Mathematics - Choose one from the following:		3-4
MATH 1220G	College Algebra	
MATH 1250G	Trigonometry & Pre-Calculus	
MATH 1350G	Introduction to Statistics	
MATH 1430G	Applications of Calculus I	
MATH 1511G	Calculus and Analytic Geometry I	
MATH 1521G	Calculus and Analytic Geometry II	
MATH 1521H	Calculus and Analytic Geometry II Honors	
CTEC 185 or OECS 262	Routing and Switching Essentials or Essentials of Routing and Switching	4
CTEC 235 or OECS 237	Introduction to Windows Server Administration or Windows Server	3
CTEC 290 or CTEC 285 or OECS 269	Network Security or Connecting Networks or Network Security	3
Technical Requirement Elective - A list of approved electives can be found in Semester 2.		3
Credits		16-17
Semester 4		
Area III: Laboratory Sciences		4
C S 171G	Modern Computing in Practice	
CSEC 275 or CSEC 283	Introductory to Cryptography or Ethical Hacking and Penetration Testing	3
CSEC 280	Introduction to Cyber Defense	3
CSEC 285	Introduction to Managing Information Security	3
Credits		13
Total Credits		61-62