

# CYBERSECURITY AND INFORMATION TECHNOLOGY

## Bachelor of Applied Science

Cybersecurity and Information Technology	43
Foundation	27-28
General Education	36-37
Electives	14-15
<b>Total Degree Credits</b>	<b>120-123</b>

### Cybersecurity and Information Technology Major Courses

CSCI 160	Computer Science I	4
CIS 204	Database Design and Structured Query Language (SQL)	3
CIS 226	Linux Network and Security Administration	3
CIS 241	Digital Forensics Fundamentals	3
CIT 320	Disaster Recovery & Incident Response	3
CIT 330	Virtualization	3
CIT 367	Cybersecurity Infrastructure Configuration	3
CIT 368	Cybersecurity Prevention & Countermeasures	3
CIT 381	IT Project Management	3
or CIT 397/497*	Cooperative Education/Internship	
CIT 410	Wireless Networking and Mobile Security	3
CIT 430	Cloud Computing & Security	3
CIT 450	Database and Web Application Security	3
CIT 470	Penetration Testing	3
CIT 475	Emerging Threats and Defenses	3
	<b>Total Credits</b>	<b>43</b>

### Foundation Courses

CIS 107	Linux Fundamentals	3
CIS 147	Principles of Information Security	3
CIS 165	Networking Fundamentals II	3-4
CIS 185	Introduction to Programming	3
CIS 212	Microsoft Windows Operating System Client	3
CIS 216	Implementing a Microsoft Windows Network Infrastructure	3
CIS 223	Linux System Administration	3
CIS 255	Computer and Network Security	3
CIS 274	Cybersecurity Operations	3
	<b>Total Credits</b>	<b>27-28</b>

### Electives

**14-15**

### General Education Courses

#### Arts & Humanities

PHIL 220	Introduction to Logic (Recommended)	3
CIS 280	Cyber Ethics (Required)	3

#### Business, Math, Science & Technology

CIS 164	Networking Fundamentals I (Required)	3-4
MATH 210	Elementary Statistics (Required)	3
General Education Matrix (Science with Lab)		8

#### Written Communications

**6**

ENGL 110	College Composition I (Required)	
ENGL 120	College Composition II	

or ENGL 125	Introduction to Professional Writing	
<i>Oral Communications</i>		
COMM 110	Fundamentals of Public Speaking	3
<i>Social &amp; Behavioral Sciences</i>		
General Education Matrix (Social & Behavioral Sciences)		3
General Education Matrix (Social & Behavioral Sciences)		3
<i>General Education Elective</i>		
General Education Matrix		1
(Needed if 36 General Education credits have not been met)		
Total Credits		36-37

\*  
CIT 397 or CIT 497 are repeatable for 1, 2, or 3 credits at a time.

College Degree Requirements

General Education Requirements Matrix