

IT: Cybersecurity Concentration

Degree Type

Associate in Science

Students in the A. S. Cybersecurity Concentration acquire a wide range of technical skills that prepare them for penetration testing positions.


Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Learn more about the program [Associate in Science - IT: Cybersecurity](#)



How to Apply: [Cybersecurity Admissions](#)

Requirements



First Semester

Item #	Title	Credits
ENL101	English Composition I	3
CIT187	Introduction to Networks (Cisco 1)	3
		
BUS100	Introduction to Business	3
CIT115	IT: Windows Desktop Operating Systems	3
CIT113	Microcomputer Hardware	3

Second Semester

Item #	Title	Credits
COM103	Human Communication	3
CIT116 (BIT116)	IT: Linux	3
CIT240	Security+	3
		
	Mathematics/Quantitative Reasoning	3-4
CIT241	IT: Ethical Hacking	3
		

Third Semester

Item #	Title	Credits
	General Education Elective	3
	Behavioral & Social Sciences	3
CIT248	Switching, Routing & Wireless Essentials (Cisco 2)	4
CIT242	IT: Advanced Ethical Hacking I	3
		
CIT243	IT: Advanced Ethical Hacking II	3
		

Fourth Semester

Item #	Title	Credits
CIT104	Cybersecurity	3
	Mathematics/Quantitative Reasoning (or) Natural or Physical Science	3-4
CIT254	Computer Forensics	3
CIT245	IT Security: Penetration Testing	3
	Behavioral & Social Sciences	3
	Total Credits	61-63



Transfer Information

IT Transfer Options

Career Outlook

Students completing the Cybersecurity Concentration are trained to work as penetration testers within network administration, engineering, management or consulting. Cybersecurity is one of the fastest career paths in the IT industry.

See also: [What can I do with this major?](#)

Program Outcomes

Upon completion of the Cybersecurity Concentration program, students are able to:

- Read, write, discuss, and think critically about topics and ideas in IT Security.
- Analyze ethical issues and apply ethical standards in the performance of responsibilities in a variety of IT Security careers.
- Work independently and with teams in an IT Security setting.
- Synthesize information from documentation and solve business problems
- Prepare for Security Penetration Testing certification exam.
- Prepare for Security+ certification exam.
- Prepare for Ethical Hacking certification exam.
- Prepare for Advanced Ethical Hacking certification exam.
- Prepare for Security Reverse Engineering certification exam.