Networking-Emphasis in Security - CERT B

Semester-by-Semester Pathway

A Certificate is outlined coursework that is designed to prepare a student to head out into the workforce in a short timeframe or for career advancement. This certificate totals 35 credit hours. Consult with an advisor for more information. Not all courses are offered each semester.

(⊤⊳) are Systemwide Transfer Courses

(★) are recommended for this degree pathway.

Semester 1 - Fall				
Complete	**Course ID**	**Course Title**	**Credit Hours**	**Notes**
Required Courses				
	IS100	Cybersecurity Application	3.00	Spring 2026, Summer 2026, Fall 2026
	IS148	CompTIA A+ Core 1	3.00	Spring 2026, Fall 2026
	IS182	Cisco CCNA I/Networking I	3.00	Spring 2026, Summer 2026, Fall 2026
Electives				
	Security Emphasis Electives		8.00	
		Semester Total:	**17.00**	

Semester 2 - Spring				
Complete	**Course ID**	**Course Title**	**Credit Hours**	**Notes**
Required Courses				
	IS149	CompTIA A+ Core 2	3.00	Spring 2026, Fall 2026 Prereq: IS148 CompTIA A+ Core 1 with grade of C or better.
	IS183	Cisco CCNA II	3.00	Spring 2026 Prereq: IS182 Cisco CCNA I/Networking I.
	IS224	Networking II	3.00	Spring 2026, Fall 2026 Prereq: IS182 Cisco CCNA I/Networking I.
Electives				
	Security Emphasis Electives		3.00	
	Security Foundation Electives		6.00	
		Semester Total:	**18.00**	

Total Credits: 35.00

*Semester offerings reflect the current academic year.

Security Emphasis Electives

Course ID	Course Title	Credit Hours	Notes
★ CS111	Introduction to Programming ⊤▷	3.00	Spring 2026, Summer 2026, Fall 2026
★ CS200	Problem Solving and Programming ⊤▷	4.00	Spring 2026, Fall 2026 Prereq: MA106 College Algebra, or Departmental Consent, and CS111 Intro to Programming.
CS200H	Honors Problem Solving and Programming	4.00	Prereq: MA106 College Algebra, or Departmental Consent, and CS111 Intro to Programming.
IS104	Microcomputer Applications ⊤▷	3.00	Spring 2026, Summer 2026, Fall 2026
IS137	Website Ethics and Security	3.00	Spring 2026, Fall 2026
IS183	Cisco CCNA II	3.00	Spring 2026 Prereq: IS182 Cisco CCNA I/Networking I.
IS184	Cisco CCNA III	3.00	Prereq: IS183 Cisco CCNA II.
IS240	Fundamentals of Network Security	3.00	Spring 2026, Fall 2026 Prereq: IS182 Cisco CCNA I/Networking I & IS224 Networking II, or Departmental Consent, and IS184 Cisco CNA III, or IS183 Cisco CCNA II.

Security Foundation Electives

Course ID	Course Title	Credit Hours	Notes
IS280	Computer Forensics	3.00	Spring 2026 Prereq: IS148 CompTIA A+ Core 1 with grade of C or better, and Departmental Consent, and IS182 Cisco CCNA I/Networking I.
IS281	Control Systems Security	3.00	Spring 2026 Prereq: IS182 Cisco CCNA I/Networking I, and Departmental Consent.
IS282	Secure Coding	3.00	Fall 2026 Prereq: CS200 Problem Solving and Programming, and Departmental Consent.