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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	Fall 2026, Spring 2027, Summer 2027
	IS148	CompTIA A+ Core 1	3.00	Fall 2026, Spring 2027
	IS182	Cisco CCNA I/Networking I	3.00	Fall 2026, Spring 2027, Summer 2027
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	Fall 2026, Spring 2027 Prereq: IS148 CompTIA A+ Core 1 with grade of C or better.
	IS183	Cisco CCNA II	3.00	Spring 2027 Prereq: IS182 Cisco CCNA I/Networking I.
	IS224	Networking II	3.00	Fall 2026, Spring 2027 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	Fall 2026, Spring 2027, Summer 2027
★ CS200	Problem Solving and Programming	4.00	Fall 2026, Spring 2027 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	Fall 2026, Spring 2027, Summer 2027
IS137	Website Ethics and Security	3.00	Fall 2026, Spring 2027
IS183	Cisco CCNA II	3.00	Spring 2027 Prereq: IS182 Cisco CCNA I/Networking I.
IS184	Cisco CCNA III	3.00	Spring 2027 Prereq: IS183 Cisco CCNA II.
IS240	Fundamentals of Network Security	3.00	Fall 2026, Spring 2027 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 2027 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 2027 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.