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Networking-Emphasis in Security

Degree 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.

(T) are Systemwide Transfer Courses

(★) are recommended for this degree pathway.

Required Courses			
Course ID	Course Title	Credit Hours	Notes
IS100	Cybersecurity Application	3.00	Spring 2026, Summer 2026, Fall 2026
IS148	CompTIA A+ Core 1	3.00	Spring 2026, Fall 2026
IS149	CompTIA A+ Core 2	3.00	Spring 2026, Fall 2026 Prereq: IS148 CompTIA A+ Core 1 with grade of C or better.
IS182	Cisco CCNA I/Networking I	3.00	Spring 2026, Summer 2026, Fall 2026
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			
Course ID	Course Title	Credit Hours	Notes
Security Emphasis Electives		11.00	
★ CS111	Introduction to Programming T	3.00	Spring 2026, Summer 2026, Fall 2026
★ CS200	Problem Solving and Programming T	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 T	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		6.00	
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.

Total Credits: 35.00