

Cyber Security Curriculum (Cyber)

Freshman

NONE ENGL 1010 (3) Writing I	ENGL 1010 (C or Better) ENGL 1020 (3) Writing II
NONE CSC 1020 (1) Connections to Comp.	ENGL 1020 PC 2500 (3) Comm in Professions ENGL 1020 OR NONE COMM 2025 (3) Found of Comm
General Education¹(3)	General Education¹(3)
CSC 1200 or MATH 1910 CSC 1300 (4) Intro to Prog MATH 1910	CSC 1300 (C or better) CSC 1310 (4) Data Structures
MATH 1710 & 1720 (C or better) or MATH 1730 (C or better) or ACT (27 or better) MATH 1910 (4) Calculus I	MATH 1910 (C or better) MATH 1920 (4) Calculus II

Sophomore

MATH 1920, CSC 1310 (C or better) CSC 2400 (3) Design of Algorithms MATH 1920	Science² (4)
CSC 1310 (C or better) CSC 2310 (4) Object-Oriented Prog	CSC 1310 (C or better) CSC 2570 (3) Intro to Cyber
CSC 1310 (C or better) CSC 2510 (3) Introduction to DevOps and Unix	General Education¹(3)
CSC 1310 (C or better) CSC 2700 (3) Discrete Stru for Comp Sci	CSC 1310 (C or better) CSC 2770 (3) Intro to Systems and Networking
Engl 1020 (C or better) English Literature³ (3)	CSC 1610 or CSC 2700 (C or better) & CSC 1310 or both CSC 2110 & CSC 2111 (C or better) CSS 3710 (3) Found. Of Comp. Sci.

Junior

General Education¹(3)	CSC 3410 CSC 4575 (3) Info Assurance and Cryptography
CSC 1310 (C or better) or both CSC 2110 & CSC 2111; and CSC 2700 or ECE 2110 CSC 3300 (3) Database Mgmt	Elective (3)
CSC 1310 (C or better) CSC 3570 (3) IT Security	General Education¹(3)
CSC 1310 (C or better) CSC 3410 (3) Org & Assembly	Junior Standing, CSC 1310 (C or better) CSC 3040 (3) Prof, Comm, and Res
Math 1920 (C or better) MATH 2010 (3) Intro to Linear Alg	CSC 3410 CSC 4320 (3) Comp Architecture

Senior

Senior Standing, CSC 2310, CSC 2400, CSC 3040, and CSC 3300 CSC 4610 (3) Software Eng I	CSC Elective³ (3)
General Education¹(3)	Science² (4)
MATH 1130 (C or better) or permit from Math Dept. MATH 3070 (3) Statistical Methods I OR MATH 1920 (C or better) MATH 3470 (3) Intro to Probs and Stats	CSC 2400 CSC 4100 (3) Operating Systems
CSC 2400 CSC 4200 (3) Computer Networks	CSC 4610 (C or better) CSC 4620 (3) Software Eng II
CSC 2400 CSC 4585 (3) Soft and Systems Sec	

Key:

Prerequisites Course Number (Cr. Hours) Course Title Co-requisites
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Computer Science Flowchart (Core)

¹ General Education History 2010 or History 2020 OR

¹ General Education Humanities/Fine Arts (9 credit hours, 3 of which must be a literature) OR

¹ General Education Social Science (6 credit hours)

² Science:

Take one science sequence from
BIOL 1113 and BIOL 1123 OR
BIOL 1113 and BIOL 2310 OR
CHEM 1110 and CHEM 1120 OR
GEOL 1040 and GEOL 1045 OR
PHYS 2010 and PHYS 2020 OR
PHYS 2110 and PHYS 2120

³ English Literature: Take ENGL 2130, or ENGL 2235, or ENGL 2330.

⁴ CSC Elective: Electives in Computer Science