CYBER SECURITY

2025-2026
Four-Year Academic Plan

University *of* Idaho
College of Engineering

Courses in italics are prerequisites   **Courses in bold are co-requisites**   Updated 7/2/2025

See course catalog for complete degree requirements and additional information at uidaho.edu/registrar/classes/catalogs.

FRESHMAN	FALL				SPRING	
CYB 1100	Cybersecurity and Privacy	3	CS 1120	Computer Science I *C or better MATH 1143, CS 1112, or sufficient test scores*	4
CS 1112	Computational Thinking and Problem Solving *C or better in MATH 1080 or sufficient test scores*	3	MATH 1760	Discrete Mathematics *Math 1143 or sufficient test scores*	3
OR ENGR 2120	OR Python Programming Essentials *MATH 1143*	3	COMM 1101	Fundamentals of Oral Communication	3
MATH 1143	College Algebra *C or better in MATH 1080 or sufficient test scores*	3	ENGL 1102	College Writing and Rhetoric II *ENGL 1101 or ENGL 1101P or sufficient test scores*	3
ENGL 1101	College Writing and Rhetoric I	3	ELECTIVE	Science with Lab Course (*from approved list*)	4
PHIL 1103 OR PHIL 2080	Introduction to Ethics OR Business Ethics	3			
	Total Credits	15		Total Credits	17

SOPHOMORE	FALL				SPRING	
CYB 2100	Cybersecurity Architectures and Management *CYB 1100, Typically Fall Only*	3	CYB 2200	Secure Coding and Analysis *CS 1121*	3
CS 1121	Computer Science II *C or better in CS 1120,* **MATH 1760**	3	CS 2230	System Software *CS 1121*	3
CS 1550	Computer Organization and Architecture *CS 1120*	3	CS 2240	Computer Operating Systems *CS 1121 and CS 1550,* **CS 2230**	3
MATH 1160	Survey of Calculus *C or better in Math 1143 or sufficient test scores*	4	STAT 2510	Statistical Methods *C or better in MATH 1080, or sufficient test scores*	3
OR MATH 1170	OR Calculus I *C or better in Math 1143 and 1144 or sufficient tests*	4	OR STAT 3010	OR Probability and Statistics *MATH 1750*	3
ELECTIVE	Humanities/Social Science Elective	3	ELECTIVE	Science with Lab Course (*from approved list*)	4
	Total Credits	16		Total Credits	16

JUNIOR	FALL				SPRING	
CYB 3100	Cybersecurity Technical Foundations **FALL ONLY** *CYB 1100 and CS 2240*	3	CYB 3400	Network Defense **SPRING ONLY** *CYB 3100 and CYB 3300*	3
CYB 3300	Networking Fundamentals **FALL ONLY** *CYB 2100 and CS 2240*	3	CYB 3500	Operating System Defense **SPRING ONLY** *CYB 3100*	3
CYB 3800	Cybersecurity Lab I **FALL ONLY** *CS 2240,* **CYB 3100 and CYB 3300**	3	CYB 3810	Cybersecurity Lab II **SPRING ONLY** *CYB 3100 and CYB 3800,* **CYB 3400 and CYB 3500**	3
ENGL 3170	Technical Writing II *ENGL 1102 or Equivalent; Sophomore Standing*	3	CS 3383	Software Engineering *C or better in CS 2240, CS 2230, (CS 2100 or CYB 2200)*	4
ELECTIVE	Humanities/Social Science Elective	3	ELECTIVE	American Diversity Course	3
	Total Credits	15		Total Credits	16

SENIOR	FALL				SPRING	
CYB 4010	Cybersecurity as a Profession *Senior Standing*	1	CYB 4400	Software Vulnerability Analysis **SPRING ONLY** *CYB 2200 and CYB 3100*	3
CYB 4200	Computer and Network Forensics **FALL ONLY** *CYB 3100*	3	CYB 4810	CYB Senior Capstone Design II **SPRING ONLY** *CS 3383, CYB 3810, CYB 4800, and ENGL 3170*	3
CYB 4800	CYB Senior Capstone Design I **FALL ONLY** *CS 3383, CYB 3810, ENGL 3170, and Senior Standing*	3	ELECTIVE	International Course	3
ELECTIVE	Humanities/Social Science Elective	3	ELECTIVE	Elective Course	3
ELECTIVE	Elective Course(s)	3			
	Total Credits	13		Total Credits	12