

Courses in italics are prerequisites

Courses in bold are co-requisites

*A grade of C or better is required in all CYB/CS 100 and 200 classes as well as MATH 170, 175 and 176 before registration in upper-division classes is permitted.
See course catalog for complete degree requirements and additional information at uidaho.edu/registrar/classes/catalogs. Last updated 9/3/20

FRESHMAN			SEMESTER ONE			SEMESTER TWO		
*CYB 110	Cybersecurity and Privacy	3				*CS 120	Computer Science I <i>MATH 143, CS 112 or sufficient test scores</i>	4
*CS 112	Computational Thinking	3				*MATH 176	<i>Discrete Mathematics</i> <i>C or better in MATH 143 or sufficient test scores</i>	3
ELECTIVE	Free Elective	3				COMM 101	<i>Fundamentals of Public Speaking</i>	2
ENGL 102	College Writing and Rhetoric <i>ENGL 101 or sufficient test scores</i>	3				PHIL 103	Ethics	3
ELECTIVE	Humanities / Social Science Elective <i>Must fulfill U of I General Degree Requirements (J-3)</i>	3				ELECTIVE	<i>Science Elective w/Lab</i> <i>See listing below</i>	4
			Total Credits	15		Total Credits 16		

*A grade of C or better is required in all 100-level CYB/CS courses as well as MATH 176 before registration in 200-level courses is permitted.

SOPHOMORE			SEMESTER ONE			SEMESTER TWO		
*CS 121	Computer Science II <i>CS 112, MATH 176</i>	3				*CS 240	Computer Operating Systems <i>CS 121, CS 150, CS 270</i>	3
*CS 150	Computer Organization & Arch. <i>CS 120</i>	3				*CS 270	System Software <i>CS 121</i>	3
*CYB 210	Cybersecurity Management	3				*CYB 220	Secure Coding and Analysis <i>CS 121</i>	3
ELECTIVE	Humanities / Social Science Elective <i>Must fulfill U of I General Degree Requirements (J-3)</i>	3				ELECTIVE	<i>Science Elective with Lab</i> <i>See listing below</i>	4
MATH 160 or MATH 170	Survey of Calculus or Calculus I <i>C or better in MATH 143/144 or sufficient test scores</i>	4				STAT 251 or STAT 301	Probability & Statistics <i>MATH 143 or MATH 175</i>	3
			Total Credits	16		Total Credits 16		

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JUNIOR			SEMESTER ONE			SEMESTER TWO		
CYB 310	Cybersecurity Technical Foundations <i>CYB 110, CS240</i>	3				CS 383	Software Engineering <i>CS 210, CS 240, CS 270 or permission</i>	3
CYB 330	Networking and Control Systems <i>CYB 210, CS240</i>	3				CYB 340	Network Defense <i>CYB 310, CYB 330</i>	3
CYB 380	Cybersecurity Lab I <i>CS 240, CYB 310, CYB 330</i>	3				CYB 350	Operating System Defense <i>CYB 310</i>	3
ELECTIVE	Free Elective	3				CYB 381	Cybersecurity Lab II <i>CYB 310, CYB 380, CYB 340, CYB 350</i>	3
ENGL 317	Technical Writing <i>ENGL 102, Junior standing or permission</i>	3				ELECTIVE	Free Elective	3
			Total Credits	15		Total Credits 15		

SENIOR			SEMESTER ONE			SEMESTER TWO		
CYB 401	Cybersecurity as a Profession <i>Senior Standing in CS</i>	1				CYB 440	Software Vulnerability Analysis <i>CYB 220, CYB 310</i>	3
CYB 420	Computer and Network Forensics <i>CYB 310</i>	3				CYB 481	Senior Capstone Design II <i>CS 383, CYB 381, CYB 480, ENGL 317</i>	3
CYB 480	Senior Capstone Design I <i>CS 383, CYB 381, ENGL 317, Senior Standing</i>	3				ELECTIVE	Free Elective <i>Must fulfill U of I General Degree Requirements (J-3)</i>	5
ELECTIVE	Free Elective	3				ELECTIVE	Humanities / Social Science Elective <i>Must fulfill U of I General Degree Requirements (J-3)</i>	3
ELECTIVE	Humanities / Social Science Elective <i>Must fulfill U of I General Degree Requirements (J-3)</i>	3				Total Credits 14		
			Total Credits	13				

SCIENCE ELECTIVES WITH LABS

BIOL 114 Organisms and Environments
CHEM 111/111L Principles of Chemistry I + Lab
ENVS 101/102 Intro. Environ. Sci. + Field Activities
GEOG 100/100L Physical Geography + Lab

GEOL 102 + 102L Historical Geology + Lab
PHYS 211 + 211L Engineering Physics I + Lab
SOIL 205 + 206 The Soil Ecosystem + Lab

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FRESHMAN SEMESTER ONE			SEMESTER TWO		
*CYB 110	Cybersecurity and Privacy	3	*CS 120	Computer Science I <i>MATH 143, CS 112 or sufficient test scores</i>	4
*CS 112	Computational Thinking	3	*MATH 176	<i>Discrete Mathematics</i> <i>C or better in MATH 143 or sufficient test scores</i>	3
MATH 143	College Algebra <i>C or better in MATH 108 or sufficient test scores</i>	3	COMM 101	<i>Fundamentals of Public Speaking</i>	2
ENGL 102	College Writing and Rhetoric <i>ENGL 101 or sufficient test scores</i>	3	PHIL 103	Ethics	3
ELECTIVE	Humanities / Social Science Elective <i>Must fulfill U of I General Degree Requirements (J-3)</i>	3	ELECTIVE	<i>Science Elective w/Lab</i> <i>See listing below</i>	4
Total Credits		15	Total Credits		16

*A grade of C or better is required in all 100-level CYB/CS courses as well as MATH 176 before registration in 200-level courses is permitted.

SOPHOMORE SEMESTER ONE			SEMESTER TWO		
*CS 121	Computer Science II <i>CS 112, MATH 176</i>	3	*CS 240	Computer Operating Systems <i>CS 121, CS 150, CS 270</i>	3
*CS 150	Computer Organization & Arch. <i>CS 120</i>	3	*CS 270	System Software <i>CS 121</i>	3
*CYB 210	Cybersecurity Management	3	*CYB 220	Secure Coding and Analysis <i>CS 121</i>	3
ELECTIVE	Humanities / Social Science Elective <i>Must fulfill U of I General Degree Requirements (J-3)</i>	3	ELECTIVE	Science Elective with Lab <i>See listing below</i>	4
MATH 160 or MATH 170	Survey of Calculus or Calculus I <i>C or better in MATH 143/144 or sufficient test scores</i>	4	STAT 251 or STAT 301	Probability & Statistics <i>MATH 143 or MATH 175</i>	3
Total Credits		16	Total Credits		16

*A grade of C or better is required in all 200-level CYB/CS courses as well as MATH 170, 175 and 176 before registration in upper-division courses is permitted.

JUNIOR SEMESTER ONE			SEMESTER TWO		
CYB 310	Cybersecurity Technical Foundations <i>CYB 110, CS240</i>	3	CS 383	Software Engineering <i>CS 210, CS 240, CS 270 or permission</i>	3
CYB 330	Networking and Control Systems <i>CYB 210, CS240</i>	3	CYB 340	Network Defense <i>CYB 310, CYB 330</i>	3
CYB 380	Cybersecurity Lab I <i>CS 240, CYB 310, CYB 330</i>	3	CYB 350	Operating System Defense <i>CYB 310</i>	3
ELECTIVE	Free Elective	3	CYB 381	Cybersecurity Lab II <i>CYB 310, CYB 380, CYB 340, CYB 350</i>	3
ENGL 317	Technical Writing <i>ENGL 102, Junior standing or permission</i>	3	ELECTIVE	Free Elective	3
Total Credits		15	Total Credits		15

SENIOR SEMESTER ONE			SEMESTER TWO		
CYB 401	Cybersecurity as a Profession <i>Senior Standing in CS</i>	1	CYB 440	Software Vulnerability Analysis <i>CYB 220, CYB 310</i>	3
CYB 420	Computer and Network Forensics <i>CYB 310</i>	3	CYB 481	Senior Capstone Design II <i>CS 383, CYB 381, CYB 480, ENGL 317</i>	3
CYB 480	Senior Capstone Design I <i>CS 383, CYB 381, ENGL 317, Senior Standing</i>	3	ELECTIVE	Free Elective <i>Must fulfill U of I General Degree Requirements (J-3)</i>	6
ELECTIVE	Free Elective	3	ELECTIVE	Humanities / Social Science Elective <i>Must fulfill U of I General Degree Requirements (J-3)</i>	3
ELECTIVE	Humanities / Social Science Elective <i>Must fulfill U of I General Degree Requirements (J-3)</i>	3	Total Credits		15
Total Credits		13			

SCIENCE ELECTIVES WITH LABS

BIOL 114 Organisms and Environments
 CHEM 111/111L Principles of Chemistry I + Lab
 ENVS 101/102 Intro. Environ. Sci. + Field Activities
 GEOG 100/100L Physical Geography + Lab

GEOL 102 + 102L Historical Geology + Lab
 PHYS 211 + 211L Engineering Physics I + Lab
 SOIL 205 + 206 The Soil Ecosystem + Lab