

Cybersecurity (Start Even Years)

Bachelor of Science



Semester 1 (Fall)

Course	Credits	Grade		✓
ENGL 101: Composition & Rhetoric I	3	C*		<input type="checkbox"/>
MATH 103: College Algebra	3			<input type="checkbox"/>
CS 151: Introduction to Computer Science	3			<input type="checkbox"/>
CS 232: Introduction to Computer Security	3			<input type="checkbox"/>
General Education/Elective	2-3			<input type="checkbox"/>
UNIV 100: CU Foundations	1			<input type="checkbox"/>

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Semester 2 (Spring)

Course	Credits	Grade		✓
ENGL 102: Composition & Rhetoric II	3	C*		<input type="checkbox"/>
CS 252: Data Structures & Object Oriented Programming	3			<input type="checkbox"/>
CS 282: Database and Information Management	3			<input type="checkbox"/>
CS 221: Computer Networking	3			<input type="checkbox"/>
MATH 219: Discrete Mathematics	3			<input type="checkbox"/>

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Semester 3 (Fall)

Course	Credits	Grade		✓
CS 325: Computer Organization and Hardware	3			<input type="checkbox"/>
CS 331: Digital Forensics and Incident Response	3			<input type="checkbox"/>
CS 381: Systems Analysis and Design	3			<input type="checkbox"/>
CS 341: Cryptography	3			<input type="checkbox"/>
CS 352: Mobile Development* or General	3			<input type="checkbox"/>

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Semester 4 (Spring)

Course	Credits	Grade		✓
CS 432: Reverse Engineering	3			<input type="checkbox"/>
MATH 105: Elementary Statistics	3			<input type="checkbox"/>
General Education/Elective	3			<input type="checkbox"/>
General Education/Elective	3			<input type="checkbox"/>
General Education/Elective	3			<input type="checkbox"/>

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The Bachelor of Science in Cybersecurity

Concord's curriculum is designed to give students a thorough understanding of the core tenants of cybersecurity; effective program management; prevention and detection of cybersecurity events; defensive architectures; managing responses and mitigations; and designing information systems securely. The program prepares students for a wide variety of careers and graduate school.



MILESTONE COURSES

Courses marked as Milestone Courses are crucial for staying on track to complete your degree in four years. Take them in the recommended semester to stay on track! If you see a recommended minimum grade, this is the grade you need to earn to have the best chance for success in this degree! Grades marked with an asterisk are required to pass.

Helpful Hints

- CS 151 is prerequisite to all other computer science courses.
- Only offered Fall semester, every year: CS 272.
- Only offered Fall semester, every other year: CS 281, CS 351.
- Only offered Spring semester, every year: CS 232, CS 252, CS 282, MATH 219.
- Only offered Spring semester, every other year: CS 221.

Semester 5 (Fall)

Course	Credits	Grade	✓
CS 281: Linux Systems Administration	3		<input type="checkbox"/>
CS 332: Network Security	3		<input type="checkbox"/>
CS 382: Cybersecurity Program Management	3		<input type="checkbox"/>
CS 351: Web Development* or General Education/ Elective	3		<input type="checkbox"/>
General Education/Elective	3		<input type="checkbox"/>

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Semester 6 (Spring)

Course	Credits	Grade	✓
CS 333: Secure Coding	3		<input type="checkbox"/>
CS 431: Penetration Testing	3		<input type="checkbox"/>
General Education/Elective	3		<input type="checkbox"/>
General Education/Elective	3		<input type="checkbox"/>
General Education/Elective	3		<input type="checkbox"/>

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Semester 7 (Fall)



Course	Credits	Grade	✓
CS 456: Capstone Project 1	2		<input type="checkbox"/>
CS 325: Computer Organization and Hardware	3		<input type="checkbox"/>
General Education/Elective	3		<input type="checkbox"/>
General Education Science	4		<input type="checkbox"/>
General Education/Elective	3		<input type="checkbox"/>

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Semester 8 (Spring) (Spring)



Course	Credits	Grade	✓
CS 457: Capstone Project 2	2		<input type="checkbox"/>
General Education/Elective	3		<input type="checkbox"/>
General Education/Elective	3		<input type="checkbox"/>
General Education/Elective	3		<input type="checkbox"/>
General Education/Elective	3-4		<input type="checkbox"/>

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ADVISING

When you choose to pursue this degree, you will be assigned an advisor who is an expert in the field of Computer Information Systems. This advisor can help you with course selection, career planning, resume building, and help you with tracking your path to degree completion.

CAREERS

With a degree in Cybersecurity, you will be prepared for careers such as: Cybersecurity Analyst, Security Engineer, Security Consultant, Penetration Tester, and Security Operations Center Analyst.

COMPLEMENTARY MINORS

Students majoring in Cybersecurity complete coursework in cybersecurity, computer science, and mathematics. The major pairs well with most minors.



CAPSTONE

The Cybersecurity degree culminates in a Capstone Project. Students will take CS 456 and 457 in their senior year to fulfill this requirement.

Helpful Hints

- Only offered Fall semester, every year: CS 325.
- Only offered Fall semester, every other year: CS 253, CS 283, CS 341, CS 381, CS 382.
- Only offered Spring semester, every other year: CS 332, CS 374, CS 384, CS 431, CS 432.