# Cybersecurity and Criminal Justice, BS

The cybersecurity and criminal justice combined degree applies a multidisciplinary approach to ensuring the reliability and security of cyberspace. The program will provide students with a strong programming foundation coupled with academic and experiential knowledge of the criminal justice system. Students learn how social behavior, policy, and legal rules can affect cybersecurity and utilize comparative social science to understand, predict, and explain crime.

#### **Program Requirements**

- Concentrations and course offerings may vary by campus and/or by program modality. Please consult with your advisor or admissions coach for the course availability each term at your campus or within your program modality.
- Certain options within the program may be required at certain campuses or for certain program modalities. Please consult with your advisor or admissions coach for requirements at your campus or for your program modality.

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

#### **Universitywide Requirements**

All undergraduate students are required to complete the Universitywide Requirements (https://catalog.northeastern.edu/undergraduate/university-academics/university-wide-requirements/).

#### **NUpath Requirements**

All undergraduate students are required to complete the NUpath Requirements (https://catalog.northeastern.edu/undergraduate/university-academics/nupath/).

#### **Cybersecurity Major Requirements**

Code	Title	Hours
Computer Science Overview		
Must be taken in alignment with your home	college:	
CS 1200	First Year Seminar	1
or CRIM 1000	Criminal Justice at Northeastern	
CS 1210	Professional Development for Khoury Co-op	1
or EESH 2000	Professional Development for Co-op	
<b>Computer Science Fundamentals Courses</b>		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	5
and CS 3501	and Lab for CS 3500	
CS 3650	Computer Systems	4
CS 4700	Network Fundamentals	4
or CS 4730	Distributed Systems	
Cybersecurity Required Courses		
CY 2550	Foundations of Cybersecurity	4
CY 3740	Systems Security	4
CY 4740	Network Security	4
Cybersecurity Elective		
Complete one of the following:		4
COMM 2551	Free Speech in Cyberspace	

## Cybersecurity and Criminal Justice, BS

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CS 4500 Software Development or CS 4530 Fundamentals of Software Engineering  CS 4710 Mobile and Wireless Systems or CS 6710 Wireless Network CY 4760 Security of Wireless and Mobile Systems CY 4770 Cryptography CY 5010 Cybersecurity Principles and Practices CY 5200 Security Risk Management and Assessment CY 5210 Information System Forensics CY 5770 Software Vulnerabilities and Security DS 4300 Large-Scale Information Storage and Retrieval DS 4400 Machine Learning and Data Mining 1 EECE 2322 Fundamentals of Digital Design and Computer Organization and EECE 2323 and Lab for EECE 2322 EECE 3324 Computer Architecture and Organization EECE 4534 Microprocessor-Based Design and EECE 4535 and Lab for EECE 4534 IS 4300 Human Computer Interaction LPSC 1101 Introduction to Law LPSC 2301 Introduction to Law LPSC 2301 Introduction to Cryptography PHIL 1145 Technology and Public Policy MATH 4575 Introduction to Cryptography PHIL 1145 Technology and Public Policy POLS 3307 Public Policy and Administration POLS 3324 Law and Society POLS 3306 International Law POLS 3420 U.S. National Security Policy POLS 3423 Terrorism and Counterterrorism	CS 2800	Logic and Computation
or CS 4530 Fundamentals of Software Engineering  CS 4710 Mobile and Wireless Systems or CS 6710 Wireless Network  CY 4760 Security of Wireless and Mobile Systems  CY 4770 Cryptography  CY 5010 Cybersecurity Principles and Practices  CY 5200 Security Risk Management and Assessment  CY 5210 Information System Forensics  CY 5210 Information Storage and Retrieval  DS 4300 Large-Scale Information Storage and Retrieval  DS 4400 Machine Learning and Data Mining 1  EECE 2322 Fundamentals of Digital Design and Computer Organization and EECE 2323 and Lab for EECE 2322  EECE 3324 Computer Architecture and Organization  EECE 4534 Microprocessor-Based Design and EECE 4535 and Lab for EECE 4534  St 4300 Human Computer Interaction  LPSC 1101 Introduction to Law  LPSC 2301 Introduction to Law, Policy, and Society  LPSC 3303 Topics in Law and Public Policy  MATH 4575 Introduction to Cryptography  PHIL 1145 Technology, and Human Values  POLS 3304 Law and Society  POLS 3307 Public Policy and Administration  POLS 3406 International Law  POLS 3420 U.S. National Security Policy	CS 4400	Programming Languages
CS 4710 Mobile and Wireless Systems or CS 6710 Wireless Network CY 4760 Security of Wireless and Mobile Systems CY 4770 Cryptography CY 5010 Cybersecurity Principles and Practices CY 5200 Security Risk Management and Assessment CY 5210 Information System Forensics CY 5770 Software Vulnerabilities and Security DS 4300 Large-Scale Information Storage and Retrieval DS 4400 Machine Learning and Data Mining 1 EECE 2322 Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322 EECE 3324 Computer Architecture and Organization EECE 4534 Microprocessor-Based Design and Lab for EECE 4534 and Lab for EECE 4534 IS 4300 Human Computer Interaction LPSC 1101 Introduction to Law LPSC 2301 Introduction to Law, Policy, and Society LPSC 3303 Topics in Law and Public Policy MATH 4575 Introduction to Cryptography PHIL 1145 Technology and Human Values POLS 3304 International Law POLS 3304 International Law POLS 3406 International Law POLS 3420 U.S. National Security Policy	CS 4500	Software Development
or CS 6710 Wireless Network CY 4760 Security of Wireless and Mobile Systems CY 4770 Cryptography CY 5010 Cybersecurity Principles and Practices CY 5200 Security Risk Management and Assessment CY 5210 Information System Forensics CY 5270 Software Vulnerabilities and Security DS 4300 Large-Scale Information Storage and Retrieval DS 4400 Machine Learning and Data Mining 1 EECE 2322 Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322 and EECE 3324 Computer Architecture and Organization EECE 4534 Microprocessor-Based Design and EECE 4535 and Lab for EECE 4534 IS 4300 Human Computer Interaction LPSC 1101 Introduction to Law LPSC 2301 Introduction to Law, Policy, and Society LPSC 3303 Topics in Law and Public Policy MATH 4527 Number Theory 1 MATH 4575 Introduction to Cryptography PHIL 1145 Technology and Human Values POLS 2300 Science, Technology, and Public Policy POLS 3307 Public Policy and Administration POLS 3400 International Law POLS 3400 International Law POLS 3400 International Law POLS 3400 International Law POLS 3400 U.S. National Security Policy	or CS 4530	Fundamentals of Software Engineering
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CY 4770 Cryptography CY 5010 Cybersecurity Principles and Practices CY 5200 Security Risk Management and Assessment CY 5210 Information System Forensics CY 5770 Software Vulnerabilities and Security DS 4300 Large-Scale Information Storage and Retrieval DS 4400 Machine Learning and Data Mining 1 EECE 2322 Fundamentals of Digital Design and Computer Organization and LetCE 2323 and Lab for EECE 2322 EECE 3324 Computer Architecture and Organization EECE 4534 Microprocessor-Based Design and EECE 4535 and Lab for EECE 4534 IS 4300 Human Computer Interaction LPSC 1101 Introduction to Law LPSC 2301 Introduction to Law, Policy, and Society LPSC 3303 Topics in Law and Public Policy MATH 3527 Number Theory I MATH 4575 Introduction to Cryptography PHIL 1145 Technology and Human Values POLS 2390 Science, Technology, and Public Policy POLS 3307 Public Policy and Administration POLS 3406 International Law POLS 3420 U.S. National Security Policy	or CS 6710	Wireless Network
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POLS 3406 International Law POLS 3420 U.S. National Security Policy		·
POLS 3420 U.S. National Security Policy		·
POLS 3423 Terrorism and Counterterrorism		• •
	POLS 3423	Terrorism and Counterterrorism

# **Supporting Courses**

Code	Title	Hours
Complete the following course:		
MATH 1341	Calculus 1 for Science and Engineering	4
Computer Science Writing Requireme		
Code	Title	Hours
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	4
First-Year Writing	
First-Year Writing for Multilingual Writers	
	4
Advanced Writing in the Technical Professions	
Advanced Writing in the Social Sciences	
Advanced Writing for Prelaw	
Interdisciplinary Advanced Writing in the Disciplines	
	First-Year Writing for Multilingual Writers  Advanced Writing in the Technical Professions  Advanced Writing in the Social Sciences  Advanced Writing for Prelaw

# **Criminal Justice Requirements**

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Code	Title	Hours
Introduction to Crime, Law, and the Justi	•	
The state of the s	tice? In these three courses, students have an opportunity to develop a foundational nena: why crime exists, how our criminal justice system responds to crime, and the nis process.	
CRIM 1100	Introduction to Criminal Justice	4
CRIM 1110	Criminal Due Process	4
CRIM 1120	Criminology	4
Current Crime and Justice Issues	<i>,</i>	
These courses introduce students to t	opical issues related to crime and justice.	
Complete one of the following:		4
CRIM 1300	The Death Penalty	
CRIM 1400	Human Trafficking	
CRIM 1500	Corruption, Integrity, and Accountability	
CRIM 1700	Crime, Media, and Politics	
<b>Crime Problems and Criminal Justice Ins</b>	titutions	
systems and institutions tasked with p	how does justice work and for whom? These courses introduce students to the providing justice. Each includes experiential learning components in cooperation  The 3000-level courses in this list provide students a deeper look at a range of crime	
Complete one of the following:		4
CRIM 2310	Courts: The Third Branch of Government	
CRIM 2320	Youth Crime and Justice	
CRIM 2330	Punishment in the Age of Mass Incarceration	
CRIM 2370	Restorative Justice: Transforming the System	
CRIM 2380	Black Families and Incarceration	
CRIM 3010	Criminal Violence	
CRIM 3030	Global Criminology	
CRIM 3040	Psychology of Crime	
CRIM 3050	Organized Crime	
CRIM 3070	Corporate and White-Collar Crime	
CRIM 3100	Criminal Law	
CRIM 3540	Addiction and Recovery	
Creating Knowledge about Crime and Just	stice	
How do we know what we know about about issues, identify solutions, and a	crime and justice—and how do we develop new knowledge? Harnessing data to learn dvocate for change.	
CRIM 3600	Criminal Justice Research Methods	4
CRIM 3700	Analyzing and Using Data on Crime and Justice	4
Systemic Issues		
A consideration of systemic issues fac	cing the criminal justice system.	
Complete one of the following:		4
CRIM 3110	Gender, Crime, and Justice	
CRIM 3120	Race, Crime, and Justice	
Criminal Justice Elective		
Rounding out knowledge of crime and		
·	elective from the 3000, 4000 or 5000-level.	4
Criminal Justice Capstone		
Complete one of the following:		4
CRIM 4949	Senior Capstone Seminar	
CY 4930	Cybersecurity Capstone	

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#### **Criminal Justice Co-op Integration**

or minute out the or op mittegration		
Code	Title	Hours
Co-op students should complete at least on required if a second co-op is taken:	e of the following courses. CRIM 3000 is required for the first co-op. CRIM 4000 is	
CRIM 3000	Co-op Integration Seminar 2	1
CRIM 4000	Co-op Integration Seminar 3	1
Integrative Requirement		
Code	Title	Hours
Cybersecurity Integrative Course		
CY 4170	The Law, Ethics, and Policy of Data and Digital Technologies	4
or CY 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
Criminal Justice Integrative Course		
Complete one of the following:		4
CRIM 2340	Corporate Security: Securing the Private Sector	
CRIM 2350	Policing a Democratic Society	
CRIM 3060	Political Crime and Terrorism	
CRIM 4040	Crime Prevention	
CRIM 5900	Topics in Criminal Justice and Criminology	

#### **Required General Electives**

CodeTitleHoursComplete 24 semester hours of general electives.24

# **Khoury College GPA Requirement**

Minimum cumulative 2.000 GPA required in all CS, CY, DS, and IS courses.

## **NUpath Requirements Satisfied**

- Engaging with the Natural and Designed World
- · Conducting Formal and Quantitative Reasoning
- · Understanding Societies and Institutions
- · Analyzing and Using Data
- · Employing Ethical Reasoning
- · Writing in the First Year
- · Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

#### **Program Requirement**

134 total semester hours required.

# **Plan of Study**

# Sample Plan of Study:

Year 1							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CRIM 1100		4 CRIM 1110		4 CS 3500 and CS 3501		5 General Elective	4
CS 1200		1 CRIM 1120		4 MATH 1341		4 General Elective	4
CS 1800 and CS 1802		5 CS 2510 and CS 2511		5			
CS 2500 and CS 2501		5 CY 2550		4			
ENGW 1111		4					
-							

Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CRIM 3600		4 CS 1210		1 CS 3000		4 Co-op	
CRIM 3700		4 CS 4700 or 4730		4 General Elective		4	
CS 3650		4 Crime Problems/CJ Institutions		4			
Elective		4 Current Crime and Justice Issues		4			
		CRIM Elective		4			
		16		17		8	
Year 3							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Со-ор		CRIM 3000		1 ENGW 3302, 3308, 3311, or 3315		4 Co-op	
Co-op		CRIM 3000 CY 3740				4 Co-op	
Со-ор				3315		·	
Со-ор		CY 3740		3315 4 General Elective		·	
Со-ор		CY 3740 CJ Systemic Issues		3315 4 General Elective 4		·	
Со-ор		CY 3740 CJ Systemic Issues Cybersecurity Elective		3315 4 General Elective 4		·	
Co-op Year 4		CY 3740 CJ Systemic Issues Cybersecurity Elective CRIM Integrative		3315 4 General Elective 4 4		4	
	Hours	CY 3740 CJ Systemic Issues Cybersecurity Elective CRIM Integrative	Hours	3315 4 General Elective 4 4		4	
Year 4	Hours	CY 3740 CJ Systemic Issues Cybersecurity Elective CRIM Integrative		3315 4 General Elective 4 4		4	
Year 4 Fall	Hours	CY 3740 CJ Systemic Issues Cybersecurity Elective CRIM Integrative  0  Spring		3315 4 General Elective 4 4 7		4	

Capstone

Elective

Total Hours: 136