Computer Science and Sociology, BS

The social aspects to computing continue to grow, primarily with respect to communication and the internet. The computer science and sociology combined major examines this significant impact on society and how people communicate and share culture. Students will have an opportunity to gain a solid programming foundation, as well as the practical and theoretical skills needed to address the complex social and cultural issues in a period of far-reaching social change.

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/universityacademics/university-wide-requirements/).

NUpath Requirements

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

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
Must be taken in alignment with your home	e college:	
CS 1200	First Year Seminar	1
or SOCL 1000	Sociology at Northeastern	
CS 1210	Professional Development for Khoury Co-op	1
or EESH 2000	Professional Development for Co-op	
Computer Science Fundamental Courses		
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 3200	Introduction to Databases	4
CS 3500 and CS 3501	Object-Oriented Design and Lab for CS 3500	5
S 2000	Principles of Information Science	4
Computer Science Writing-Intensive Requi	rement	
Complete one of the following:		4
CS 4500	Software Development	
or CS 4530	Fundamentals of Software Engineering	
DS 4200	Information Presentation and Visualization (Take DS 3000 either as a prerequisite of or concurrently with DS 4200.)	
Khoury Elective Courses		

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With adviser approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.

Complete 12 semester hours of upper-division CS, CY, DS, or IS classes that are not already required. Choose courses within the	12
following ranges:	
CS 2500 or higher, except CS 5010	
CY 2000 or higher, except CY 4930	

DS 2500 or higher, except DS 4900

IS 2000 or higher, except IS 4900

Sociology Courses

57		
Code	Title	Hours
Sociology Required Courses		
ANTH 1101	Peoples and Cultures	4
ANTH 2305	Global Markets and Local Culture	4
SOCL 1101	Introduction to Sociology	4
SOCL 2320	Statistical Analysis in Sociology	4
SOCL 2321	Research Methods in Sociology	4
SOCL 3300	Social Theory	4
Sociology Electives		
Complete one sociology elective in each of t	the following ranges:	12
Introductory elective: SOCL 1000 to SOCI	1999	
Intermediate elective: SOCL 2000 to SOC	L 3999	
Advanced elective: SOCL 4000 to SOCL 4	999	
Sociology Required Capstone		
SOCL 4600	Senior Seminar	4
Integrative Course Requirement		
Code	Title	Hours
Complete one of the following:		4
SOCL 1280	The Twenty-First-Century Workplace	
SOCL 2485	Environment, Technology, and Society	
SOCL 4528	Technology and Society	
Computer Science Writing Requireme	ent	
Code	Title	Hours
SOCL 2485 SOCL 4528 Computer Science Writing Requireme	Environment, Technology, and Society Technology and Society Ent	Hours

Coue	litte	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one of the following:		4
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3308	Advanced Writing in the Social Sciences	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete 32 semester hours of general elect	ives.	32
Khoury College GPA Requirements		

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

Sociology GPA Requirements

2.000 average GPA requirement across all sociology classes

NUpath Requirements Satisfied

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

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

Program Requirement

133 total semester hours required

Plan of Study

Sample Plan of Study

FOUR YEARS, TWO CO-OPS IN SPRING/SUMMER 1 Year 1

fear								
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	
CS 1200 or SOCL 1000		1 ANTH 1101		4 CS 3500 and CS 3501		5 Elective		4
CS 1800 and CS 1802		5 CS 2510 and CS 2511		5 Elective		4 Elective		4
CS 2500 and CS 2501		5 IS 2000		4				
ENGW 1111		4 SOCL 2320		4				
SOCL 1101		4						
		19		17		9		8
Year 2								
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	
ANTH 2305		4 Co-op		Со-ор		Elective		4
CS 1210 or EESH 2000		1				Elective		4
CS 3000		4						
SOCL 2321		4						
Elective		4						
		17		0		0		8
Year 3								
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	
CS 3200		4 Co-op		Со-ор		ENGW 3302, 3308, or 3315		4
SOCL 3300		4				Elective		4
Khoury Elective		4						
Sociology Introductory Elective		4						
		16		0		0		8
Year 4								
Fall	Hours	Spring	Hours					
CS Intensive Writing Requirement		4 SOCL 4600		4				
Integrative Requirement		4 Khoury Elective 3		4				
Khoury Elective 2		4 Sociology Advanced		4				

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Sociology Intermediate Elective	4 Elective	4	
	16	16	

Total Hours: 134

FOUR YEARS, TWO CO-OPS IN SUMMER 2/FALL

		0		16				_
		Elective Elective		4				
		Sociology Advanced		4				
F		Khoury Elective 3		4				
Co-op		SOCL 4600	liouio	4				
rear 4 Fall	Hours	Spring	Hours					
Year 4		0		16		8		
		Elective				•		
		Sociology Intermediate		4				
		Khoury Elective 2		4 Elective 4		7		
		Requirement Integrative Requirement		4 Elective		4		
Со-ор		CS Intensive Writing		4 ENGW 3302, 3308, or 3315		4 Со-ор		
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	
Year 3								
		17		17		8		
		Sociology Introductory Elective		4				
Elective		4 Khoury Elective		4				
SOCL 2321		4 SOCL 3300		4				
and CS 3501		5 63 5200		4 LIECTIVE		4		
ANTH 2305 CS 3500		4 CS 1210 or EESH 2000 5 CS 3200		1 Elective 4 Elective		4 Co-op 4		
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	
Year 2								
		19		17		8		
SOCL 1101		4						
ENGW 1111		4 SOCL 2320		4				
CS 2500 and CS 2501		5 IS 2000		4				
and CS 1802		and CS 2511				4 Elective		
CS 1200 or SOCL 1000		1 ANTH 1101 5 CS 2510		4 CS 3000 5 Elective		4 Elective 4 Elective		
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	
	Tiours		nouis		Hours		nouis	

Total Hours: 134