Computer Science and Sociology, BS (Boston)

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

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/).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
Must be taken in alignment with your home 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		
All students can take a self-assessment to attempt to place out of CS 2000 and CS 2001. Students who place out of CS 2000 and CS 2001 will instead substitute 4-5 semester hours of CS, CY, or DS coursework at the 3000 level or higher not otherwise required in the degree.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2000 and CS 2001	Introduction to Program Design and Implementation and Lab for CS 2000	5
CS 2100 and CS 2101	Program Design and Implementation 1 and Lab for CS 2100	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3100 and CS 3101	Program Design and Implementation 2 and Lab for CS 3100	5
CS 3200	Introduction to Databases	4
CS 4530	Fundamentals of Software Engineering	4
or CS 4535	Professional Practicum Capstone	
Khoury Approved Electives		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 16 semester hours from within the following options:		16
CS 2500 or higher, except CS 5010		
CY 2000 or higher, except CY 4930		
DS 2500 or higher, except DS 4900		
MKTG 4606	Digital, Analytics, Technology, and Automation Research Practicum	

Sociology Courses

Code	Title	Hours
Sociology Required Courses		
SOCL 1101	Introduction to Sociology	4
SOCL 2320	Statistical Analysis in Sociology	4
or INSH 3102	Introduction to Statistics in the Social Sciences	
SOCL 2321	Research Methods in Sociology	4
or INSH 3101	Research Methods in the Social Sciences	
SOCL 3300	Social Theory	4
Sociology Electives		
Complete one introductory elective (not used to satisfy other requirements) in the range 1000-1999 in each of the following ranges:		4
Complete two intermediate electives (not used to satisfy other requirements) in the range 2000-3999.		8
Complete two advanced electives (not used to satisfy other requirements) in the range 4000-4999.		8
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 Requirement

Code	Title	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 electives.		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
• Engaging Difference and Diversity

- 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 Plans of Study

FOUR YEARS, TWO CO-OPS IN SPRING/SUMMER FIRST HALF

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200 or SOCL 1000	1	CS 2100 and CS 2101	5	CS 3100 and CS 3101	5	General Elective	4
CS 1800 and CS 1802	5	Sociology elective	4	General Elective	4	General Elective	4
CS 2000 and CS 2001	5	SOCL 2320 or INSH 3102	4				
ENGW 1111	4	General Elective	4				
SOCL 1101	4						
	19		**17**		**9**		**8**

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210 or EESH 2000	1	Co-op	0	Co-op	0	General Elective	4
Sociology elective	4					General Elective	4
CS 3000	4						
SOCL 2321 or INSH 3101	4						
Khoury Elective	4						
	17		**0**		**0**		**8**

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3200	4	Co-op	0	Co-op	0	ENGW 3302, 3308, or 3315	4
SOCL 3300	4					General Elective	4
Khoury Elective	4						
Sociology Elective	4						
	16		**0**		**0**		**8**

Year 4

Fall	Hours	Spring	Hours
CS 4530 or 4535	4	SOCL 4600	4
Integrative Requirement	4	Khoury Elective	4
Khoury Elective	4	Sociology Elective	4
Sociology Elective	4	General Elective	4
	16		**16**

Total Hours: 134

FOUR YEARS, TWO CO-OPS IN SUMMER SECOND HALF/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200 or SOCL 1000	1	CS 2100 and CS 2101	5	CS 3000	4	General Elective	4
CS 1800 and CS 1802	5	Sociology elective	4	General Elective	4	General Elective	4
CS 2000 and CS 2001	5	SOCL 2320 or INSH 3102	4				

ENGW 1111	4	General Elective	4
SOCL 1101	4		

	19		**17**		**8**		**8**

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3100 and CS 3101	5	CS 1210 or EESH 2000	1	General Elective	4	Co-op	0
Sociology elective	4	CS 3200	4	General Elective	4		
SOCL 2321	4	SOCL 3300	4				
General Elective	4	Khoury Elective	4				
		Sociology Elective	4				
	17		**17**		**8**		**0**

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Integrative Requirement	4	ENGW 3302, 3308, or 3315	4	Co-op	0
		Khoury Elective	4	General Elective	4		
		Khoury Elective	4				
		Sociology Elective	4				
	0		**16**		**8**		**0**

Year 4

Fall	Hours	Spring	Hours
Co-op	0	CS 4530 or 4535	4
		SOCL 4600	4
		Khoury Elective	4
		Sociology Elective	4
	0		**16**

Total Hours: 134