Computer Science and Journalism, BS

The computer science and journalism combined major supports students who understand that journalism now takes place in both print and the digital world. Students will learn the principles, practices, and responsibilities of the journalism profession while gaining a deep understanding of the systems and technologies that support digital media.

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/).

Computer Science Requirements

Code	Title	Hours
Computer Science Overview		
Must be taken in alignment with your home college:		
CS 1200	First Year Seminar	1
or JRNL 1000	Journalism at Northeastern	
CS 1210	Professional Development for Khoury Co-op	1
or EEAM 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
CS 4500	Software Development	4
or CS 4530	Fundamentals of Software Engineering	
IS 4200	Information Retrieval	4
or IS 4300	Human Computer Interaction	
Khoury Elective Courses		
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 CS, CY, DS, or IS classes that are not already required. Choose courses within the following ranges:		12
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 |

Journalism Major Requirements

Students transferring from outside institutions must complete a minimum of five 4-credit journalism courses at Northeastern, and these must include:

Code	Title	Hours
JRNL 2201	Journalism 2: Intermediate Reporting	
JRNL 2301	Visual Storytelling in Journalism	
JRNL 4650	Ethics and Diversity in the News Media	

Code	Title	Hours
Journalism Courses		
A grade of C or higher is required:		
JRNL 1101 and JRNL 1102	Journalism 1: Fundamentals of Reporting and Writing and Journalist's Toolbox	5
JRNL 2201	Journalism 2: Intermediate Reporting	4
JRNL 2301	Visual Storytelling in Journalism	4
JRNL 3610	Digital Storytelling and Social Media	4
Required Journalism		
JRNL 1150	Understanding Today's News	4
JRNL 2350	The History of Journalism: How the News Became the News	4
JRNL 3550	The First Amendment and the Media	4
JRNL 4650	Ethics and Diversity in the News Media	4
Journalism Electives		
Complete two JRNL courses.		8
Journalism-Related Requirement		
HIST 1130	Introduction to the History of the United States	4

Supporting Courses

Code	Title	Hours
Mathematics Requirement		
MATH 1341	Calculus 1 for Science and Engineering	4
Computing and Social Issues		
Complete one of the following:		4
AFCS 2600	Issues in Race, Science, and Technology	
CY 4170	The Law, Ethics, and Policy of Data and Digital Technologies	
CY 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
HIST 2220	History of Technology	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
IS 1300	Knowledge in a Digital World	
or PHIL 1300	Knowledge in a Digital World	
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-Century Workplace	
SOCL 2485	Environment, Technology, and Society	
SOCL 4528	Technology and Society	

Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
This course already fulfills a Journalism requirement above:		
JRNL 2301	Visual Storytelling in Journalism	

Required General Electives

Code	Title	Hours
Complete 28 semester hours of general electives.		28

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Understanding Societies and Institutions
- Interpreting Culture
- Engaging Difference and Diversity
- 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.

Khoury College GPA Requirement

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

Journalism GPA Requirement

Minimum 2.000 GPA required in all JRNL courses

Program Requirement

134 total semester hours required

Plan of Study
Sample Plan of Study:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3000	4	Elective	4
CS 1800 and CS 1802	5	CS 3200	4	Elective	4	Elective	4
CS 2500 and CS 2501	5	JRNL 1101 and JRNL 1102	5				
ENGW 1111	4	JRNL 2350	4				
JRNL 1150	4						
	19		**18**		**8**		**8**

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500 and CS 3501	5	CS 1210	1	Elective	4	Co-op	
HIST 1130	4	JRNL 2301	4	Elective	4		
JRNL 2201	4	MATH 1341	4				
Khoury elective	4	Journalism elective 2	4				
		Khoury elective	4				
	17		**17**		**8**		**0**

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		IS 4200 or 4300	4	Elective	4	Co-op	
		JRNL 3550	4	Elective	4		

			Hours	
	JRNL 3610		4	
	Khoury elective		4	
0		**16**	**8**	**0**

Year 4

Fall	Hours	Spring	Hours
Co-op		CS 4530	4
		JRNL 4650	4
		Computing and social issues	4
		Journalism elective 2	4
0		**16**	

Total Hours: 135

Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500 and CS 3501	5	Elective	4
CS 1800 and CS 1802	5	CS 3200	4	Elective	4	Elective	4
CS 2500 and CS 2501	5	JRNL 1101 and JRNL 1102	5				
ENGW 1111	4	JRNL 2350	4				
JRNL 1150	4						
	19		**18**		**9**		**8**

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op		Co-op		Elective	4
CS 3000	4					Elective	4
HIST 1130	4						
JRNL 2201	4						
Khoury elective	4						
	17		**0**		**0**		**8**

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2301	4	Co-op		Co-op		Elective	4
MATH 1341	4					Elective	4
Journalism elective 1	4						
Khoury elective	4						
	16		**0**		**0**		**8**

Year 4

Fall	Hours	Spring	Hours
IS 4200 or 4300	4	CS 4530	4
JRNL 3550	4	JRNL 4650	4
JRNL 3610	4	Computing and social issues	4
Khoury elective	4	Journalism elective 2	4
	16		**16**

Total Hours: 135