Computer Science and Speech-Language Pathology and Audiology, BS (Boston)

The Bachelor of Science in Computer Science and Speech-Language Pathology and Audiology curriculum is designed to facilitate critical thinking, information literacy, and oral and written communication skills. In addition to courses in the basic communication sciences, courses in education, allied health, computer literacy, ethics, multicultural/diversity issues, and psychology are required. Students have an opportunity to focus on the fundamentals of program design, software development, computer organization, systems and networks, theories of computation, principles of languages, and advanced algorithms and data.

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 Requirements

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Code	Title	Hours					
Computer Science Overview							
Must be taken in alignment with your h	home college:						
CS 1200	00 First Year Seminar						
or SLPA 1000	College: An Introduction						
CS 1210	Professional Development for Khoury Co-op	1					
or SLPA 2000	Introduction to Co-op						
Computer Science Foundations							
	nt to attempt to place out of CS 2000 and CS 2001. Students who place out of CS 2000 5 semester hours of CS, CY, or DS coursework at the 3000 level or higher not otherwise						
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 2484	Principles of Human-Computer Interaction	4					
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					
or CS 4100	Artificial Intelligence						
CS 4530	Fundamentals of Software Engineering	4					
or CS 4535	Professional Practicum Capstone						
Khoury Approved Electives							
With advisor approval, directed study, upper-division electives.	research, project study, and appropriate graduate-level courses may also be taken as						
Complete 4 semester hours from within	in the following options:	4					
CS 2500 or higher, except CS 5010							
CY 2000 or higher, except CY 4930							

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Title

DS 2500 or higher, except DS 4900

MKTG 4606 Digital, Analytics, Technology, and Automation Research Practicum

Speech-Language Pathology and Audiology Requirements

A grade of C or higher is required in the following:

Code	Title	Hours
SLPA 1101	Bridging Minds: Introduction to Speech, Language, and Hearing Sciences	4
SLPA 1102	Language Development	4
SLPA 1103	Anatomy and Physiology of Speech and Hearing Mechanism	4
SLPA 1200	Phonetics	4
SLPA 1203	Introduction to Audiology	4
SLPA 1205	Speech and Hearing Science	4
SLPA 4500	Language Disorders across the Life Span	4
SLPA 4651	Speech Disorders across the Life Span	4
SLPA 5107	Clinical Procedures	4
SLPA 6219	Aural Rehabilitation	3

Math and Statistics Courses

A grade of C or higher is required in the following:

Code	Title	Hours
MATH 1341	Calculus 1 for Science and Engineering	4
PHTH 2210	Foundations of Biostatistics	4

Supporting Science Courses

A grade of C or higher is required in the following:

Code	Title	Hours
BIOL 2217 and BIOL 2218	Integrated Anatomy and Physiology 1 and Lab for BIOL 2217	5
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	5

Ethics Requirement

Code	ritte	Hours
PHIL 1145	Technology and Human Values	4

Integrative Requirement

Code	Title	Hours
CS 4120	Natural Language Processing	4

Writing Requirements

Code

College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	

Hours

Advanced Writing in the Disciplines

Advanced writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3306	Advanced Writing in the Health Professions	
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	itte	Hours
Complete 16 semester hours of genera	ıl electives.	16

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.

Students are responsible for using the general electives in this program to complete NUpath requirements not satisfied by required courses in this program.

Program Requirement

130 total semester hours required

Plan of Study

Sample Plans of Study

FOUR YEARS, ONE CO-OP IN SPRING/SUMMER FIRST HALF

Year 1							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200 or SLPA 1000		1 BIOL 2217 and BIOL 2218		5 PHIL 1145		4 Vacation	
CS 1800 and CS 1802		5 CS 2100 and CS 2101		5			
CS 2000 and CS 2001		5 SLPA 1101		4			
ENGW 1111 or 1102		4 SLPA 1205		4			
Elective		4					
		19		18		4	0
Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210 or SLPA 2000		1 Co-op		0 Co-op		0 Vacation	
CS 3100 and CS 3101		5					
MATH 1341		4					
SLPA 1103		4					
SLPA 1203		4					
		18		0		0	0
Year 3							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 2484		4 ENGW 3302, 3306, or 3315		4 Elective		4 Vacation	
CS 3000 and CS 3001		4 SLPA 1200		4 Elective		4	
PHTH 2210		4 SLPA 1102		4			
PHYS 1145 and PHYS 1146		5 CS 3200 or 4100		4			
		17		16		8	0
Year 4							
Year 4 Fall	Hours	Spring	Hours				
	Hours	Spring 4 CS 4530 or 4535	Hours	4			

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	16	15
CS 4120	4 Elective	4
Khoury elective	4 SLPA 6219	3

Total Hours: 131

FOUR YEARS, ONE CO-O	OP IN SUMI	MER SECOND HALF/FALL							
Fall	Hours	Spring	Hours	Summer 1	Hou	rs	Summer 2	Hours	
CS 1200 or SLPA 1000		1 BIOL 2217 and BIOL 2218		5 PHIL 1145		4	Vacation		
CS 1800 and CS 1802		5 CS 2100 and CS 2101		5					
CS 2000 and CS 2001		5 SLPA 1101		4					
ENGW 1111 or 1102		4 SLPA 1205		4					
Elective		4							
		19		18		4			0
Year 2									
Fall	Hours	Spring	Hours	Summer 1	Hou	rs	Summer 2	Hours	
CS 1210 or SLPA 2000		1 CS 2484		4 Vacation			Co-op		0
CS 3100 and CS 3101		5 CS 3000 and CS 3001		4					
MATH 1341		4 PHTH 2210		4					
SLPA 1103		4 PHYS 1145 and PHYS 1146		5					
SLPA 1203		4							
		18		17		0			0
Year 3									
Fall	Hours	Spring	Hours	Summer 1	Hou	rs	Summer 2	Hours	
Со-ор		0 ENGW 3302, 3306, or 3315		4 Elective		4	Vacation		
		SLPA 1200		4 Elective		4			
		SLPA 1102		4					
		CS 3200 or 4100		4					
		0		16		8			0
Year 4									
Fall	Hours	Spring	Hours						
SLPA 4500		4 CS 4530 or 4535		4					
SLPA 5107		4 SLPA 4651		4					
Khoury elective		4 SLPA 6219		3					
CS 4120		4 Elective		4					

15

Total Hours: 131

16