

# Speech-Language Pathology and Audiology and Behavioral Neuroscience, BS (Boston)

The combined Bachelor of Science in Speech-Language Pathology and Audiology and Behavioral Neuroscience offers an interdisciplinary approach to the study of behavior and communication disorders. The curriculum focuses on the biological bases underlying behavior in healthy and pathological states, specifically those that are related to and derive from breakdowns in communication. It combines coursework in psychology and physical sciences to provide scientific and theoretical frameworks of behavior, speech, language, and hearing. Students are introduced to the anatomical and functional specializations of the brain and neural mechanisms and have the opportunity to apply these concepts to the domains of speech, language, and hearing.

## 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/>).

Complete all courses listed below unless otherwise indicated.

## First-Year Seminar

Code	Title	Hours
SLPA 1000	College: An Introduction	1
or INSC 1000	Science at Northeastern	

## Speech-Language Pathology and Audiology Requirements

Code	Title	Hours
All courses in this section must be completed with a C or better.		
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 2000	Introduction to Co-op	1
or EESC 2000	Professional Development for Co-op	
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

## Behavioral Neuroscience Requirements

Code	Title	Hours
BIOL 2299	Inquiries in Biological Sciences	4
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
BIOL 3405	Neurobiology	4
CHEM 1161 and CHEM 1162 and CHEM 1163	General Chemistry for Science Majors and Lab for CHEM 1161 and Recitation for CHEM 1161	5
PSYC 3200	Clinical Neuroanatomy	4
PSYC 3458	Biological Psychology	4

**Electives***Psychology Elective*

Complete one of the following: 4

PSYC 3404	Developmental Psychology
PSYC 3406	Clinical Psychology and Mental Health
PSYC 3450	Learning and Motivation
PSYC 3451	Learning Principles and Behavior Analysis
PSYC 3452	Sensation and Perception
PSYC 3464	Psychology of Language
PSYC 3466	Cognition

*Behavioral Neuroscience Electives*

Complete two of the following: 8

BIOL 3415	Current Topics in Behavioral Neuroscience
BIOL 3601	Neural Systems and Behavior
BIOL 3605	Developmental Neurobiology
BIOL 4705	Neurobiology of Cognitive Decline
BIOL 4709	Neurobiology of Learning and Memory
BIOL 5595	Cell and Molecular Neuroscience
BIOL 5601	Multidisciplinary Approaches in Motor Control
PSYC 3506	Neuropsychology of Fear
PSYC 3508	Behavioral Endocrinology
PSYC 3510	Brain, Behavior, and Immunity
PSYC 4510	Psychopharmacology
PSYC 4512	Neuropsychology
PSYC 4514	Clinical Neuroscience
PSYC 4540	Quantitative Topics in Psychology and Behavioral Neuroscience
PSYC 4570	Behavioral Genetics

*Upper-Level Elective*

Complete one course not otherwise used to fulfill the above requirements: 4

BIOL 3405 or higher
BNSC 4970 or higher
PSYC 3404 or higher

**Supporting Courses**

Code	Title	Hours
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
ENGW 1111 or ENGW 1102	First-Year Writing First-Year Writing for Multilingual Writers	4
ENGW 3306 or ENGW 3308 or ENGW 3315	Advanced Writing in the Health Professions Advanced Writing in the Social Sciences Interdisciplinary Advanced Writing in the Disciplines	4
HLTH 5450	Healthcare Research	4
MATH 1241	Calculus 1	4
PHIL 1165	Moral and Social Problems in Healthcare	4
PHTH 2210	Foundations of Biostatistics	4
PHTH 2300	Communication Skills for the Health Professions	4
PSYC 1101	Foundations of Psychology	4

**Integrative Course**

Code	Title	Hours
SLPA 2400	Neuroscience of Language	4

## Electives

Code	Title	Hours
Elective		4
Elective (NU Path IC)		4

## NUPath Requirements

The following NUPath Requirements are met by the major:

- Analyzing and Using Data (AD)
- Conducting Formal and Quantitative Reasoning (FQ)
- Demonstrating Thought and Action in a Capstone (CE)
- Engaging with the Natural and Designed World (ND)
- Engaging Differences and Diversity (DD)
- Employing Ethical Reasoning (ER)
- Exploring Creative Expression and Innovation (EI)
- Understanding Societies and Institutions (SI)

Other NUPath requirements may be fulfilled by electives in the program.

## Science GPA Requirement (Behavioral Neuroscience)

A minimum 2.000 GPA in the following course codes is required: BIOL, BNSC, CHEM, ENVR, MATH, PHYS, PSYC.

## Program Requirement

132 total semester hours required

## Plan of Study

### Sample Plan of Study

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

Year 1							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1107 and BIOL 1108		5 BIOL 2299		4 Vacation		Vacation	
CHEM 1161 and CHEM 1162		5 ENGW 1111		4			
MATH 1241		4 SLPA 1101		4			
PSYC 1101		4 SLPA 1205		4			
SLPA 1000 or INSC 1000		1					
	19		16			0	0
Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 2301 and BIOL 2302		5 COOP 3945		0 COOP 3945		0 BIOL 3405	4
PSYC 3458	4					PSYC elective	4
SLPA 1103	4						
SLPA 1203	4						
SLPA 2000 or EESH 2000	1						
	18		0			0	8
Year 3							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3306, 3308, or 3315		4 HLTH 5450		4 Vacation		Elective	4
PHTH 2210	4	PSYC 3200	4			Elective	4
PHTH 2300	4	SLPA 1200	4				
SLPA 2400	4	SLPA 1102	4				
	16		16			0	8

Year 4			
Fall	Hours	Spring	Hours
BNSC elective		4 BNSC elective	4
BNSC or PSYC upper elective		4 PHIL 1165	4
SLPA 4500		4 SLPA 4651	4
SLPA 5107		4 SLPA 6219	3
	16		15
Total Hours: 132			