BACHELOR OF SCIENCE WITH A MAJOR IN COGNITIVE SCIENCE OF LANGUAGE (STEM)

The cognitive science of language, also known as psycholinguistics, is the study of the interplay between language and the psychological/brain processes supporting it.

GW's bachelor of science in cognitive science of language program provides students with scientific skills in areas including research methods, data analysis and processing, and written and oral science communication, as well as focal knowledge in cognitive science, linguistics, neurosciences, psycholinguistics, and communication disorders. Using these skills students learn to generate hypotheses and test predictions about communication and language use, ranging from social (media) habits to individual differences in communication and language impairments. High-achieving students have opportunities to participate in undergraduate research (https://psychology.columbian.gwu.edu/undergraduate-student-research/) and external internships to further apply their knowledge.

The BS curriculum combines well with GW's minor in data science and/or certificate in digital technology.

This is a STEM designated program.

ADMISSIONS

For information about the admission process, including deadlines, visit the Office of Undergraduate Admissions website (https://undergraduate.admissions.gwu.edu/). Applications can be submitted via the Common Application (https://go.gwu.edu/commonapp/).

Supporting documents not submitted online should be mailed to:

Office of Undergraduate Admissions The George Washington University 800 21st St NW Suite 100 Washington, DC 20052

For questions visit undergraduate.admissions.gwu.edu/contact-us (http://undergraduate.admissions.gwu.edu/contact-us/).

REQUIREMENTS

The following requirements must be fulfilled:

The general requirements stated under Columbian College of Arts and Sciences, Undergraduate Programs (http://bulletin.gwu.edu/arts-sciences/#degreeregulationstext).

Coursework for the major:

Code Title Credits

Introductory STEM courses

Biological sciences

The following two courses (8 credits):

BISC 1111 Introductory Biology: Cells and Molecules

BISC 1112 Introductory Biology: The Biology of
Organisms

Mathematics

One or both of the following courses (3 or 6 credits):

MATH 1231 Single-Variable Calculus I

MATH 1232 Single-Variable Calculus II

Physical sciences

Two courses (8 credits), one in Chemistry (CHEM) and one in Physics (PHYS), selected from the following:

CHEM 1111	General Chemistry I
CHEM 1112	General Chemistry II
PHYS 1011	General Physics I
PHYS 1012	General Physics II
PHYS 1021	University Physics I
PHYS 1022	University Physics II
PHYS 1025	University Physics I with Biological Applications
PHYS 1026	University Physics II with Biological Applications

Major requirements

Quantitative methods

One or two courses (3 or 6 credits) selected from the following:

CSCI 1012 Introduction to Programming with Python

DATS 2102 Data Visualization for Data Science

DATS 2103 Data Mining for Data Science

DATS 2104 Data Warehousing for Data Science

STAT 1053 Introduction to Statistics in Social Science

or STAT 1127 Statistics for the Biological Sciences

Gateway courses

Tho	foll	lowing	civ	courses	(12 cr	adite).
1110	101	IOVVIIIIQ	SIA	Courses	(10 CI	cuitai.

ANTH 1004	Language in Culture and Society
or SLHS 1071	Foundations of Human Communication
or SLHS 1071W	Foundations of Human Communication
DATS 1001	Data Science for All
SLHS 2101	Research Methods
SLHS 2105	Anatomy and Physiology for Speech, Language, and Hearing
SLHS 2107	Acoustics
SLHS 2106	Neural Substrates of Speech, Language, and Hearing

Psycholinguistics

The following four courses (11 credits):

SLHS 2104W	Speech and Language Disorders
SLHS 3108	Introduction to Audiology
SLHS 3131	Language Acquisition and Development
SLHS 3136	Phonetics

Cognitive neuroscience

One to three courses (3 to 9 credits) selected from the following:

ANTH 3413	Evolution of the Human Brain
PSYC 2015	Biological Psychology
PSYC 3118	Neuropsychology
PSYC 3122	The Cognitive Neuroscience
SLHS 3116	Brain and Language

Cognitive science

One or two courses (3 or 6 credits) selected from	the following:
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ANTH 3601	Language, Culture, and Cognition
PHIL 2045	Introduction to Logic
PSYC 2014	Cognitive Psychology
SLHS 1072	Culturally Responsive Practices in Human Communication.
SLHS 1084	Perspectives in Deaf Culture
SLHS 2135	Language: Structure, Meaning, and Use
SLHS 3117	Hearing and Perception

SLHS 3133	Autism
Advanced electives	
One or two courses (3	or 6 credits) selected from the following:
ANTH 3603	Psycholinguistics
or LING 3603	Psycholinguistics
or SLHS 3603	Psycholinguistics
PHIL 3121	Symbolic Logic
PSYC 3119	Cognitive Science in the District
SLHS 3109	Auditory Learning and Aural Rehabilitation
Advanced lab or clinic	cal experience
One course (3 credits)	selected from the following:
ANTH 3602	Ethnographic Analysis of Speech
ANTH 3995	Undergraduate Research
PSYC 4106W	Research Lab in Sensation and Perception
PSYC 4107W	Research Lab in Cognitive Neuroscience

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PSYC 4106W	Research Lab in Sensation and Perception
PSYC 4107W	Research Lab in Cognitive Neuroscience
PSYC 4591	Independent Research
SLHS 4119	Principles and Methods in Speech- Language Pathology
SLHS 4196	Independent Study

Capstone seminar (3 credits)

SLHS 4118W Senior Research Seminar in

Communication Sciences and Disorders