BACHELOR OF SCIENCE WITH A MAJOR IN COGNITIVE SCIENCE OF LANGUAGE

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 (BS) 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.

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:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Introductory STEM courses</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Biological sciences</td>
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</tbody>
</table>

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

The following six courses (18 credits):

- ANTH 1004 Language in Culture and Society
- or SLHS 1071 Foundations of Human Communication
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>DATS 1001</td>
<td>Data Science for All</td>
</tr>
<tr>
<td>SLHS 2101</td>
<td>Research Methods</td>
</tr>
<tr>
<td>SLHS 2105</td>
<td>Anatomy and Physiology for Speech, Language, and Hearing</td>
</tr>
<tr>
<td>SLHS 2107</td>
<td>Acoustics</td>
</tr>
<tr>
<td>SLHS 2106</td>
<td>Neural Substrates of Speech, Language, and Hearing</td>
</tr>
<tr>
<td>ANTH 3603</td>
<td>Psycholinguistics</td>
</tr>
<tr>
<td>or LING 3603</td>
<td>Psycholinguistics</td>
</tr>
<tr>
<td>or SLHS 3603</td>
<td>Psycholinguistics</td>
</tr>
<tr>
<td>PHIL 3121</td>
<td>Symbolic Logic</td>
</tr>
<tr>
<td>PSYC 3119</td>
<td>Cognitive Science in the District</td>
</tr>
<tr>
<td>SLHS 3109</td>
<td>Auditory Learning and Aural Rehabilitation</td>
</tr>
</tbody>
</table>

Advanced lab or clinical 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
- 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