BACHELOR OF SCIENCE WITH A MAJOR IN COGNITIVE NEUROSCIENCE

Our Psychology program at GW attracts students eager to develop research skills and solve issues within communities and societies—they apply lessons learned in the classroom to real-world scenarios through learning and research. You will be well-educated in a variety of topics, including abnormal, developmental, and social psychology, as well as cognitive neuroscience. During your tenure at GW you can work alongside faculty—or nearby research centers such as the National Institutes of Health and the National Science Foundation—on a range of health psychology and cultural diversity issues, leading you to opportunities to present your findings at local and national conferences. Beyond the classroom, our graduates have pursued career paths that have ranged from the more traditional path of psychiatry and social work to careers in management and public relations.

For more information, visit the program website. (https://psychology.columbian.gwu.edu/)

ADMISSIONS

For more information on the admission process, please visit the Office of Undergraduate Admissions website. Applications may be submitted via the Common Application.

Supporting documents not submitted online should be mailed to:
Office of Undergraduate Admissions
The George Washington University
800 21st Street NW, Suite 100
Washington DC 20052

Contact for questions: gwadm@gwu.edu or 202-994-6040

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).

Program-specific curriculum:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Required</td>
<td>11 to 14 credits in introductory natural science courses, including 8 credits in biological sciences and 3 or 6 credits in mathematics.</td>
<td></td>
</tr>
<tr>
<td>BISC 1111</td>
<td>Introductory Biology: Cells and Molecules</td>
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</table>
## Bachelor of Science with a Major in Cognitive Neuroscience

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<thead>
<tr>
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<tr>
<td>PSYC 3121</td>
<td>Memory and Cognition</td>
</tr>
<tr>
<td>PSYC 3122</td>
<td>Cognitive Neuroscience</td>
</tr>
<tr>
<td>PSYC 3124</td>
<td>Visual Perception</td>
</tr>
<tr>
<td>SLHS 3133</td>
<td>Autism</td>
</tr>
<tr>
<td>SLHS 3116</td>
<td>Brain and Language</td>
</tr>
<tr>
<td>PSYC 3180</td>
<td>Seminar in Cognitive Science</td>
</tr>
<tr>
<td>SLHS 3132</td>
<td>Literacy</td>
</tr>
<tr>
<td>SLHS 4201</td>
<td>Social Communication Development</td>
</tr>
</tbody>
</table>

### Cognitive Science
- PHIL 3121: Symbolic Logic
- PHIL 3153: Mind, Brain, and Artificial Intelligence
- PSYC 3119: Cognitive Science in the District
- PSYC 3180: Seminar in Cognitive Science
- SLHS 3117: Hearing and Perception

### One research/laboratory experience (3 to 4 credits)
- BISC 2452 & BISC 2453: Animal Behavior and Animal Behavior Lab
- PSYC 4106W: Research Lab in Sensation and Perception
- PSYC 4107W: Research Lab in Cognitive Neuroscience

### Four advanced content courses (12-16 credits) selected from the following:
- ANTH 3401: Human Functional Anatomy
- ANTH 3402: Human Evolutionary Anatomy
- ANTH 3412: Hominin Evolution
- ANTH 3491: Topics in Biological Anthropology
- ANTH 3501: Anthropology of Development
- ANTH 3601: Language, Culture, and Cognition
- ANTH 3603: Psycholinguistics
- ANTH 3691: Special Topics in Linguistic Anthropology
- ANTH 3995: Undergraduate Research
- BISC 3165: Biochemistry I
- BISC 3166: Biochemistry II
- BISC 3209: Molecular Biology
- BISC 3320: Human Neurobiology
- BISC 4132: Advanced Cellular-Molecular Biology
- BISC 4171: Undergraduate Research
- CHEM 2151 & CHEM 2153: Organic Chemistry I and Organic Chemistry Laboratory I
- CHEM 2152 & CHEM 2154: Organic Chemistry II and Organic Chemistry Laboratory II
- CHEM 4195: Undergraduate Research

## Bachelor of Science with a Major in Cognitive Neuroscience

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<tr>
<td>PHIL 3151</td>
<td>Philosophy of Science</td>
</tr>
</tbody>
</table>
- or PHIL 3151W: Philosophy of Science

### PHIL 3152: Theory of Knowledge
- PHIL 3153: Mind, Brain, and Artificial Intelligence
- PHIL 3251: Philosophy of Biology
- PHIL 4196: Topics in Theory of Knowledge
- PHIL 4199: Readings and Research
- or PHIL 4199W: Readings and Research

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<td>PSYC 3116</td>
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<td>Neuropsychology</td>
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<tr>
<td>PSYC 3120</td>
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<tr>
<td>PSYC 3198</td>
<td>Current Research Issues</td>
</tr>
<tr>
<td>PSYC 3199</td>
<td>Current Topics in Psychology</td>
</tr>
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</table>

Bachelor of Science with a Major in Cognitive Neuroscience
1 CSCI 1012 is recommended but not required to fulfill this requirement.

2 If a student wishes to take a Statistics course to fulfill this requirement, STAT 1127 is recommended but an equivalent STAT course may be substituted.

3 PSYC 3199 must be taken when offered as Introduction to Psychopharmacology to satisfy this requirement.

4 This requirement may also be fulfilled by taking any of the independent research/reading courses offered by the associated departments. Such courses are listed in the advanced content section with the footnote number 5. All courses so noted may be taken multiple times and each enrollment may be applied to either the advanced content or the research experience requirement.

5 These courses may have GPA requirements and permission of the instructor. Please contact the relevant departments for more information. Each must be taken for a total of at least 3 credits to count towards the requirement.

**GENERAL EDUCATION**

In addition to the University General Education Requirement (http://bulletin.gwu.edu/university-regulations/general-education/#text), undergraduate students in Columbian College must complete a further, College-specific general education curriculum—Perspective, Analysis, Communication, or G-PAC (http://bulletin.gwu.edu/arts-sciences/gpac/). Together with the University General Education Requirement, G-PAC engages students in active intellectual inquiry across the liberal arts. Students achieve a set of learning outcomes that enhance their analytical skills, develop their communication competencies, and invite them to participate as responsible citizens who are attentive to issues of culture, diversity, and privilege.

G-PAC approved courses, Dean’s Seminars, and Sophomore Colloquia that may be available for registration are listed on the CCAS Advising website (https://advising.columbian.gwu.edu/general-education-courses/).

**Coursework for the University General Education Requirement** is distributed as follows:

- **Writing**—one approved course in university writing and two approved writing in the disciplines (WID) courses.
- **Humanities**—one approved course in the humanities that involves critical or creative thinking skills.
- **Mathematics or Statistics**—one approved course in either mathematics or statistics.
- **Natural or Physical Science**—one approved laboratory course that employs the process of scientific inquiry.
- **Social Sciences**—two approved courses in the social sciences.

**Coursework for the Columbian College general education curriculum** is distributed as follows:

- **Arts**—one approved course in the arts that involves the study or creation of artwork based on an understanding or interpretation of artistic traditions or knowledge of art in a contemporary context.
- **Global or Cross-Cultural Perspective**—one approved course that analyzes the ways in which institutions, practices, and problems transcend national and regional boundaries.
- **Humanities**—one approved course in the humanities that involves critical thinking skills (in addition to the one course in this category required by the University General Education Requirement).
- **Local or Civic Engagement**—one approved course that develops the values, ethics, disciplines, and commitment to pursue responsible public action.
- **Natural or Physical Science**—one approved laboratory course that employs the process of scientific inquiry (in addition to the one course in this category required by the University General Education Requirement).
- **Oral Communication**—one course in oral communication.

Certain courses are approved to fulfill the requirement in more than one of these categories.

Courses taken in fulfillment of G-PAC also may be counted toward majors or minors. Transfer courses taken prior to, but not after, admission to George Washington University may count toward the University General Education Requirement and G-PAC, if those transfer courses are equivalent to GW
courses that have been approved by the University and the College.