Cognitive Science Minor

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The cognitive science minor consists of five disciplinary areas: behavioral, biological, computational, linguistic, and philosophical. Each course, except the overview, falls into one or more disciplinary areas.

Students interested in pursuing the minor should contact the program director for further information.

Department Programs

Majors

• Psychology Major, B.A. (http://catalog.unc.edu/undergraduate/programs-study/psychology-major-ba)
• Psychology Major, B.S. (http://catalog.unc.edu/undergraduate/programs-study/psychology-major-bs)

Minors

• Cognitive Science Minor (p. 1)
• Neuroscience Minor (http://catalog.unc.edu/undergraduate/programs-study/neuroscience-minor)

Graduate Programs

• M.A. in Psychology (http://catalog.unc.edu/graduate/schools-departments/psychology-neuroscience)
• Ph.D. in Psychology (http://catalog.unc.edu/graduate/schools-departments/psychology-neuroscience)

Requirements

In addition to the program requirements listed below, students must:

• take at least nine hours of their minor course requirements at UNC–Chapel Hill
• earn a minimum of 12 hours of C or better in the minor (some minors require more)

For more information, please consult the degree requirements section of the catalog (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements/#degreerequirementstext).

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PSYC 330</td>
<td>Introduction to Cognitive Science (prerequisite, PSYC 101)</td>
<td>3</td>
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</tbody>
</table>

Four other courses distributed over at least two disciplinary areas, at least two of which must be numbered 400 or above, as follows:

Behavioral:

- ANTH 143 Human Evolution and Adaptation
- BIOL 278 Animal Behavior
- BIOL 455 Behavioral Neuroscience
- INLS 512 Applications of Natural Language Processing
- PSYC 222 Learning
- PSYC 225 Sensation and Perception
- PSYC 230 Cognitive Psychology
- PSYC 425 Advanced Perceptual Processes
- PSYC 430 Human Memory
- PSYC 432 Psychology of Language
- PSYC 433 Behavioral Decision Theory
- PSYC 434 Cognitive Neuroscience
- PSYC 461 Cognitive Development
- PSYC 469 Evolution and Development of Biobehavioral Systems

Biological:

- BIOL 278 Animal Behavior
- BIOL 455 Behavioral Neuroscience
- BIOL 469 Behavioral Ecology
- PSYC 225 Sensation and Perception

Computational:

- COMP 101 Fluency in Information Technology
- COMP 116 Introduction to Scientific Programming
- COMP 401 Foundation of Programming
- COMP 455 Models of Languages and Computation
- INLS 382 Information Systems Analysis and Design
- INLS 500 Human Information Interactions
- INLS 509 Information Retrieval
- INLS 512 Applications of Natural Language Processing
- INLS 523 Introduction to Database Concepts and Applications
- INLS 541 Information Visualization
- INLS 582 Systems Analysis
- INLS 613 Text Mining
- MATH 566 Introduction to Numerical Analysis
- PSYC 433 Behavioral Decision Theory
- STOR 215 Foundations of Decision Sciences
- STOR 305 Decision Making Using Spreadsheet Models
- STOR 435 Introduction to Probability
**Cognitive Science Minor**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>STOR 565</td>
<td>Machine Learning</td>
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<tr>
<td><strong>Linguistic:</strong></td>
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<tr>
<td>ANTH/LING 520</td>
<td>Linguistic Phonetics</td>
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<tr>
<td>INLS 512</td>
<td>Applications of Natural Language Processing</td>
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<tr>
<td>LING 200</td>
<td>Phonology</td>
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<tr>
<td>LING 201</td>
<td>Syntax</td>
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<td>LING 202</td>
<td>Linguistic Variation and Language Change</td>
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<td>LING 401</td>
<td>Language and Computers</td>
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<tr>
<td>LING 523</td>
<td>Phonological Theory I</td>
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<tr>
<td>LING 540</td>
<td>Mathematical Linguistics</td>
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<tr>
<td>LING 547</td>
<td>Language Deficits and Cognition</td>
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<tr>
<td>PHIL 145</td>
<td>Language and Communication H</td>
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<tr>
<td>PHIL 445</td>
<td>Philosophy of Language</td>
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<tr>
<td>PSYC 432</td>
<td>Psychology of Language</td>
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<tr>
<td><strong>Philosophical:</strong></td>
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<tr>
<td>ANTH 146</td>
<td>The Nature of Moral Consciousness: A Course in General Anthropology</td>
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<tr>
<td>ANTH/CMPL/FOLK 435</td>
<td>Consciousness and Symbols</td>
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<td>LING/PHIL 455</td>
<td>Symbolic Logic</td>
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<td>PHIL 145</td>
<td>Language and Communication H</td>
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<tr>
<td>PHIL 155</td>
<td>Introduction to Mathematical Logic H</td>
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<tr>
<td>PHIL 164</td>
<td>Morality and Business</td>
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<tr>
<td>PHIL 230</td>
<td>Experience and Reality H</td>
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<tr>
<td>PHIL 335</td>
<td>Theory of Knowledge</td>
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<tr>
<td>PHIL 340</td>
<td>Philosophy of Mind</td>
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<tr>
<td>PHIL 440</td>
<td>Philosophy of Mind</td>
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<tr>
<td>PHIL 445</td>
<td>Philosophy of Language</td>
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</table>

**Total Hours** 15

**H** Honors version available. An honors course fulfills the same requirements as the nonhonors version of that course. Enrollment and GPA restrictions may apply.

**1** Recommended preparation, PSYC 210 or another quantitative reasoning course.

Students must earn a grade of C or better in at least four of the five courses. Courses used to satisfy psychology core requirements cannot also satisfy requirements in the cognitive science minor. The minor is open to all, including psychology majors, who are still limited to no more than 45 credit hours in the department. Students and their advisors should take careful note of the specified prerequisites for advanced offerings in this listing. The specified courses (or their equivalent from other institutions) provide a necessary background for entry into these advanced courses.

See the program page here (http://catalog.unc.edu/undergraduate/programs-study/psychology-major-ba) for special opportunities.