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

• Neuroscience Major, B.S. (http://catalog.unc.edu/undergraduate/programs-study/neuroscience-major-bs/)
• 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/)

Requirements

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

• take at least nine hours of their minor ‘core’ 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).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>PSYC 330</td>
<td>Introduction to Cognitive Science (prerequisite, PSYC 101)</td>
<td>3</td>
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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
- NSCI 222 Learning
- NSCI 225 Sensation and Perception
- NSCI 434 Cognitive Neuroscience
- PSYC 230 Cognitive Psychology
- PSYC 430 Human Memory
- PSYC 432 Psychology of Language
- PSYC 433 Behavioral Decision Theory
- 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
- NSCI 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

• 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/)
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 Introduction to Decision Analytics
STOR 435 Introduction to Probability
STOR 565 Machine Learning

**Linguistic:**
ANTH/LING 520 Linguistic Phonetics
INLS 512 Applications of Natural Language Processing
LING 200 Phonology
LING 201 Syntax
LING 202 Linguistic Variation and Language Change
LING 401 Language and Computers
LING 523 Phonological Theory I
LING 540 Mathematical Linguistics
LING 547 Language Deficits and Cognition
PHIL 145 Language, Communication, and Human and Animal Minds
PHIL 445 Advanced Philosophy of Language
PSYC 432 Psychology of Language

**Philosophical:**
ANTH 146 The Nature of Moral Consciousness: A Course in General Anthropology
ANTH/FOLK 435 Consciousness and Symbols
LING/PHIL 455 Symbolic Logic
PHIL 145 Language, Communication, and Human and Animal Minds
PHIL 155 Truth and Proof: Introduction to Mathematical Logic
PHIL 164 Morality and Business
PHIL 230 Mind, Matter, and Metaphysics: the Philosophy of Experience and Reality
PHIL 335 Theory of Knowledge
PHIL 340 Philosophy of Mind
PHIL 440 Philosophy of Mind
PHIL 445 Advanced Philosophy of Language

**Additional Requirements**
PSYC 101 General Psychology 3

Total Hours 18

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

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 core 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.