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/)

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 "core" requirements at UNC–Chapel Hill
• earn a minimum cumulative GPA of 2.000 in the minor core requirements. Some programs may require higher standards for minor or specific courses.

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

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td><strong>Core Requirements</strong></td>
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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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<td>Four other courses distributed over at least two disciplinary areas, at least two of which must be numbered 400 or above, as follows:</td>
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**Behavioral:**
• INLS 203 Human Information Behavior
• INLS 318 Human Computer Interaction
• INLS 418 Human Factors in System Design
• INLS 512 Applications of Natural Language Processing
• NSCI 222 Learning H
• NSCI 225 Sensation and Perception H
• NSCI 434 Cognitive Neuroscience
• PSYC 230 Cognitive Psychology H
• PSYC 430 Human Memory
• PSYC 432 Psychology of Language
• PSYC 433 Behavioral Decision Theory
• PSYC 461 Cognitive Development

**Computational:**
• COMP 110 Introduction to Programming and Data Science H
• COMP 116 Introduction to Scientific Programming
• COMP 210 Data Structures and Analysis
• COMP 455 Models of Languages and Computation
• COMP 486 Applications of Natural Language Processing
• COMP 560 Artificial Intelligence
• COMP 562 Introduction to Machine Learning
• COMP 581 Introduction to Robotics H
• INLS 318 Human Computer Interaction
• 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 613 Text Mining
• STOR 215 Foundations of Decision Sciences
STOR 435  Introduction to Probability
STOR 565  Machine Learning

Linguistic:
COMP 486  Applications of Natural Language Processing
INLS 512  Applications of Natural Language Processing
LING 145  Language, Communication, and Human and Animal Minds
LING 333  Human Language and Animal Communication Systems
LING 401  Language and Computers
LING 460  Making Sense of Big Data: Textual Analysis with R
LING 540  Mathematical Linguistics
LING 545  Language and Mind
LING 547  Language Deficits and Cognition
PHIL 145  Language, Communication, and Human and Animal Minds
PHIL 445  Advanced Philosophy of Language

Philosophical:
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

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.

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.