CAREER POSSIBILITIES

The cross-disciplinary preparation of cognitive science gives students a good grounding for a variety of possible careers. A BA in cognitive science will allow you to apply for jobs in any of the fields that are part of cognitive science. For example, you can apply for jobs in both psychology and computer science.

A BA in cognitive science will also allow you to apply to a variety of different graduate and professional programs. For example, you might decide your interest within cognitive science is language, and get advanced training in speech pathology in a Communications department. A BA in cognitive science is also suitable for pre-medicine, pre-law, and pre-management students.

Employers will be pleased to see that your training is broader than that of other candidates. A degree in cognitive science says something about you: “I have multiple interests and skills and can think about problems in a variety of ways. I’ve been exposed to a lot of different things, and have a substantial knowledge base.”

To learn more about the employment value of a degree in Cognitive Science, visit http://case.edu/artsci/coqs/careerpossibilities.html

NEW COURSES

Cognitive Science is developing new courses for Spring 2007 and next year, including:


Gesture in Cognition and Communication: A survey of scientific research on gesture, including gesture in communication, differences in gesture from culture to culture, and whether gesture helps us think.

The Artful Mind: To have a cognitively modern human mind is to be robustly artful, displaying singularly human behaviors like advanced tool use, decorative dress, language, culture, religion, science, mathematics, and art. How did the artful mind emerge? What basic mental operations make art possible for us now, where did they come from, and what neurobiology subtends them?

To learn more about Cognitive Science course offerings, visit http://case.edu/artsci/coqs/courses.html

RESEARCH OPPORTUNITIES

Get involved in research! There are lots of opportunities for undergraduates to do hands-on research with Cognitive Science faculty. For example:

The Cetacean Cognition Project: Studying dolphin vocalizations as an exercise in applied cognitive epistemology.
http://www.case.edu/artsci/phil/cetacean/cetacean2.htm

The Conceptual Blending Lab: Studying the dynamics of cognitive creativity.

The Gesture and Cognition Lab: Studying the relationship between gesture, communication, and thought.

Learn more about our faculty and their research at http://case.edu/artsci/coqs/people.html

YOU ARE INVITED

Meet the faculty and other students at our informational and social meeting on Monday, October 30. Come to SAGES Café in the quad level of Crawford Hall and follow the signs around the corner to hear from faculty, ask questions, and meet one another. Refreshments will be served.

http://case.edu/artsci/coqs/infomeetingsOct06.html
The undergraduate major requires a minimum of 30 semester hours in cognitive science and approved related coursework: 15 credit hours in the foundation component and 15 hours of elective coursework.

**THE FOUNDATION COMPONENT**

All majors must successfully complete the following core courses:

- COGS 101 Introduction to Cognitive Science I
- COGS 102 Introduction to Cognitive Science II
- COGS 201 Human Cognition in Evolution and Development
- COGS 202 Human Cognition from a Cultural Perspective
- PSCL 282 Quantitative Methods in Psychology or equivalent, particularly ANTH 319 or STAT 201

**ELECTIVES**

All majors must successfully complete five courses from the list below. Additional courses may qualify, subject to departmental approval. At least three of these courses must be at the 200 or 300 level. Some of these courses have additional prerequisites that may not count towards the requirements of the major. While students may enroll in up to 6 credits of independent study in Cognitive Science (COGS 397), only 3 of these credits may count toward the elective component of the major.

- ANTH 102 Being Human: An Introduction to Social and Cultural Anthropology
- ANTH 103 Introduction to Human Evolution
- ANTH 220 Language, Culture, and Communication
- ANTH 371 Culture, Behavior and Person
- BIOL 225 Evolution
- BIOL 302 Human Learning and the Brain
- COGS 301 Topics in Cognitive Science
- COGS 307 Independent Study in Cognitive Science
- COGS 328 Introduction to Mass Communication
- COGS 331 Language Development
- ENGL 301 Linguistic Analysis
- ENGL 379 Topics in Language Studies
- PHIL 203 Natural Philosophy
- PHIL 306 Mathematical Logic and Model Theory
- PHIL 365 Philosophy of Mind
- PSCL 352 Physiological Psychology
- PSCL 353 Psychology of Learning
- PSCL 355 Sensation and Perception
- PSCL 357 Cognitive Psychology
- PSCL 370 Human Intelligence

**ADDITIONAL REQUIREMENTS**

A SAGES departmental seminar in cognitive science for advanced undergraduates is in development. Cognitive Science will also offer a capstone course, COGS 397.

**CORE COURSES IN 2007-2008**

- COGS 101 Introduction to Cognitive Science I, 3 credits - Fall
  A survey of major theories and facts about human cognition (including computational and engineering theories), along with an introduction to the kinds of methodologies available to modern cognitive science.

- COGS 102 Introduction to Cognitive Science II, 3 credits - Spring
  A survey of the fundamental methods, findings, and theories that attempt to understand the human mind from a neuroscientific standpoint, covering the brain processes underlying such psychological phenomena as consciousness, sensation, perception, thought, language, and voluntary action. The approach of this course is cross-disciplinary, including theories and data from clinical and experimental neuropsychology, brain imaging, neuro-electric and neuro-magnetic brain activity, neuro-linguistics, and behavioral neuroscience, among others.

- COGS 201 Human Cognition in Evolution and Development, 3 credits - Fall
  The unfolding of cognitive structures and functions over time, in both the deep temporal perspective of evolution (measured across many lifetimes) and the shorter one of development (measured within single lifetimes). The approach of the course is cross-disciplinary, including approaches that come from anthropology, archaeology, philosophy, computing science, comparative psychology, primatology, and comparative linguistics, among others. For students familiar with basic research and theory in cognitive science.

- COGS 202 Human Cognition from a Cultural Perspective, 3 credits - Spring
  A survey of the fundamental methods, findings, and theories that attempt to understand the growth and evolution of cognition from a social science or humanistic standpoint. Theories of human cultural evolution and change, of the relationship between the cognizing individual and larger social-cognitive structures, and of such phenomena as distributed networks, cooperative mental work, and the phenomenology of human experience.