



COGNITIVE SCIENCE

One of the most exciting intellectual developments in recent years, Cognitive Science draws from theory and research representing a wide body of knowledge — psychology, computer science, philosophy, linguistics, biology and the neurosciences — to examine the nature of how humans, other animals and machines think, act and learn.

At Illinois Wesleyan University, Cognitive Science is a true multidisciplinary study of cognition and its role in intelligence. Faculty and coursework in the Cognitive Sciences encompass philosophy, computer science, mathematics, psychology, linguistics and biology. As a student in the Cognitive Sciences you will examine how knowledge is acquired through processes such as reasoning, intuition and perception. How the cognitive process works will be examined through an interdisciplinary approach that provides exposure to a variety of theoretical and research perspectives. The curriculum is focused on gaining a broader and deeper understanding of how knowledge is acquired, how intelligence is developed and how the brain deals with problems related to perception, representation, recognition, learning and language.

PROGRAM OVERVIEW

Currently Illinois Wesleyan offers a minor in Cognitive Science, which requires five courses. In addition to the foundational course, “Introduction to Cognitive Science” (COG 200), and a computational methods course, students select three courses from a list drawn from the contributing disciplines of philosophy, computer science, mathematics, psychology, linguistics and biology. At least two of these courses must be from disciplines outside the student’s major. Students intending to minor in Cognitive Science should consult with the program director to determine the best course plan for their needs and interests. Course options and an overview of the minor sequence are listed on the back of this sheet.

TOP FACULTY

Illinois Wesleyan University faculty members are active scholars and researchers who are passionate about undergraduate education. With Illinois Wesleyan’s student/faculty ratio among the best in the nation, its students benefit from the personal attention that only a top liberal arts university can provide. In addition to superb classroom instruction, small class sizes and opportunities to participate in research activities, students in the Cognitive Sciences find their faculty accessible outside of class time, available for advising and truly interested in preparing them for graduate study or career opportunities.

SUPERB FACILITIES

Cognitive Sciences is housed in the Center for the Natural Sciences, which provides state-of-the-art classroom and laboratory facilities rivaling those of any leading national university.

FURTHER INFORMATION

For more information about Cognitive Science at Illinois Wesleyan, visit the program’s Web site at <http://www2.iwu.edu/cogsci/>

or, contact

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—Minor Sequence listed on reverse

MINOR SEQUENCE

- ▶ The Foundational Course: COG 200, Introduction to Cognitive Science
- ▶ One computational methods course from the following choices:
 - ▷ Psychology 212: Perception and Cognition*
 - ▷ CS/Math 135: Computational Discrete Mathematics I
 - ▷ Philosophy 102: Elementary Symbolic Logic
 - ▷ Computer Science 138: Artificial Intelligence for Non-Majors*
- ▶ Psychology 227: Statistics for the Natural Science
- ▶ Three classes from the following, with at least two outside the student's major:
 - ▷ Computer Science 138: Artificial Intelligence for Non-Majors*
 - ▷ Computer Science 338: Artificial Intelligence*
 - ▷ Computer Science 357: Models of Computing
 - ▷ Computer Science 362: Computer Vision
 - ▷ Computer Science 365: Computational Linguistics
 - ▷ Computer Science 367: Robotics
 - ▷ Philosophy 311: Philosophy of Mind
 - ▷ Philosophy 340: Philosophy of Language
 - ▷ Phil/Math/CS 360: Topics in Logic
 - ▷ Psychology 212: Perception and Cognition*
 - ▷ Psychology 213: Neuroscience
 - ▷ Psychology 312: Experimental Research in Cognitive Psychology
 - ▷ Math 300: Mathematical Modeling
 - ▷ Math 311: Parallel Computing
 - ▷ Biology 407: Neurophysiology
 - ▷ Cognitive Science 380: Independent Study in Cognitive Science Special Topics classes or Independent Studies/Honors Projects in a variety of disciplines, subject to approval of the Program Director.

*Computer Science 138 or Psychology 212 may be used to satisfy either requirement 2 or 3, but not both. Students may not count both Computer Science 138 and Computer Science 338 towards the minor.

ILLINOIS WESLEYAN

Illinois Wesleyan University, founded in 1850, is a private co-educational institution with an enrollment of 2,100 and a student/faculty ratio of 12 to 1. Ranked in the top-tier of national liberal arts colleges and universities, Illinois Wesleyan is a highly selective institution focused on undergraduate education that provides a unique combination of the traditional liberal arts and professional programs.

A liberal arts education at Illinois Wesleyan fosters creativity, encourages critical thinking and develops effective communication skills, while preparing students to excel at the graduate and professional level, or their chosen career field. The University attracts multitalented students who are broadly curious, creative and intellectually passionate.

Illinois Wesleyan consists of the College of Liberal Arts, with its 17 academic departments; the College of Fine Arts that includes the Schools of Art, Music, and Theatre Arts; and the School of Nursing. The University's faculty is composed of active scholars who are dedicated to undergraduate teaching and engage their students in research and other scholarly activities that enhance