Fall 2013 Courses for Cognitive Science Majors

Required for All Majors

050.101 Cognition

Courses for ‘Math’ Requirement

For Option A (“Any Two of the Following”)
110.106 Calculus I
110.107 Calculus II
110.108 Calculus I
110.109 Calculus II
110.201 Linear Algebra
110.202 Calculus III
150.421 Mathematical Logic
150.498 Model Logic and Its Applications
550.171 Discrete Mathematics
550.291 Linear Algebra & Differential Equations

For Option B (Statistics Sequence)
550.111 Statistical Analysis I (required if Area A is a focal area)
550.112 Statistical Analysis II (required if Area A is a focal area)
200.207 Research Methods in Experimental Psychology [formerly Lab in the Analysis of Psychological Data] (required if Area A is a focal area)

Courses by Focal Area

Area A: Cognitive Psychology & Cognitive Neuropsychology
050.319 Visual Cognition
050.333 Psycholinguistics
200.101 Intro to Psychology
200.132 Intro to Developmental Psychology
200.310 Neural Basis of Cognitive Control
200.316 Thought and Perception
200.363 Mind, Brain & Experience
376.371 Topics in Music Cognition I

Area B: Linguistics
050.321 Syntax II
050.322 Semantics II
050.333 Psycholinguistics

Area C: Computational Approaches to Cognition
250.205 Introduction to Computing
500.200 Computing for Scientists & Engineers
600.107 Intro Programming Java
600.108 Intro Programming Lab
600.112 Intro to Programming for Scientists and Engineers
600.120 Intermediate Programming
600.226 Data Structures
600.233 Computer System Fundamentals
600.361 (461) Computer Vision
600.363 (463) Intro to Algorithms
600.465 Natural Language Processing
600.469 Approximation Algorithms
600.471 Theory of Computation
600.476 Machine Learning in Complex Domains

_Area D: Philosophy of Mind_
150.245 Introduction to Philosophy of Mind
150.476 Philosophy and Cognitive Science
200.316 Thought and Perception

_Area E: Neuroscience_
050.319 Visual Cognition
080.105 Introduction to Neuroscience
080.250 Neuroscience Lab
080.305 Nervous System I
080.330 Brain Injury & Recovery
080.345 Great Discoveries in Neuroscience
080.355 Visual System
080.360 Diseases & Disorders of the Nervous System
200.141 Foundations of Brain, Behavior and Cognition
200.308 Neurobiology of Learning and Memory
200.310 Neural Basis of Cognitive Control
200.363 Mind, Brain & Experience

_Also of Interest_
050.318 Practicum in Language Disorders (2 credits).
This course provides the opportunity to learn about adult aphasias; language disorders which are one of the most common consequences of stroke. You will receive training in Supportive Communication Techniques and work as a communication partner with an individual with aphasia for two hours per week. Three class meetings for orientation and reading assignments will be held on campus; training and practicum will be conducted at a local aphasia support center. Transportation required. Instructor's approval required to register.