Fall 2014 Courses for Cognitive Science Majors

The following courses in Fall 2014 meet course requirements for the Cognitive Science major. Also, a new advanced course search tool in ISIS allows you to look up focal area courses using POS tags starting with “COGS-”. If you believe a course qualifies to be added to one of these lists, contact Sarah Ciotola, Academic Program Coordinator, at ciotola@cogsci.jhu.edu; please provide a course description and a syllabus, if available.

Required for All Cognitive Science Majors: AS.050.101 Cognition

### Math

For Option A (“Any two of the following”)
- AS.050.371 Bayesian Inference
- AS.110.106 Calculus I (biological & social science)
- AS.110.107 Calculus II (biological & social science)
- AS.110.110 Calculus I
- AS.110.109 Calculus II (physical science & engineering)
- AS.110.201 Linear Algebra
- AS.110.202 Calculus III
- EN.550.171 Discrete Mathematics
- EN.550.291 Linear Algebra & Differential Equations

For Option B (“All three required: Statistics sequence”)
- AS.200.207 Research Methods in Experimental Psychology
- EN.550.111 Statistical Analysis I
- EN.550.112 Statistical Analysis II

**Required if Area A is one of your focal areas**

- AS.200.207 Research Methods in Experimental Psychology
- EN.550.111 Statistical Analysis I
- EN.550.112 Statistical Analysis II

### Courses by Focal Area

**Area A: Cognitive Psychology & Cognitive Neuropsychology**
- AS.050.105 Intro to Cognitive Neuropsychology
- AS.050.128 Born to Talk: Language in the Human Mind
- AS.050.206 Bilingualism
- AS.200.101 Introduction to Psychology
- AS.200.316 Thought and Perception
- AS.200.363 Mind, Brain & Experience
- AS.376.371 Topics in Music Cognition I

**Area B: Linguistics**
- AS.050.128 Born to Talk: Language in the Human Mind
- AS.050.206 Bilingualism
- AS.050.240 World of Language
- AS.050.317 Semantics I
- EN.600.465 Natural Language Processing

**Area C: Computational Approaches to Cognition**
- AS.050.371 Bayesian Inference
- AS.250.205 Introduction to Computing
- EN.520.414 Image Processing & Analysis
- EN.600.108 Intro to Programming Lab (1 credit)
- EN.600.112 Intro Programming for Scientists & Engineers
- EN.600.226 Data Structures
- EN.600.233 Computer System Fundamentals
- EN.600.361 Computer Vision (EN.600.461)
- EN.600.363 Intro to Algorithms
- EN.600.463 Algorithms I
- EN.600.465 Natural Language Processing
- EN.600.471 Theory of Computation
- EN.600.476 Machine Learning in Complex Domains

**At most, one of the following courses:**
- EN.500.200 Computing for Engineers & Scientists
- EN.600.107 Intro to Programming in JAVA
- EN.600.120 Intermediate Programming

**Area D: Philosophy of Mind**
- AS.150.129 The Theory of Knowledge
- AS.150.245 Introduction to Philosophy of Mind
- AS.150.476 Philosophy & Cognitive Science
- AS.200.316 Thought & Perception

**Area E: Neuroscience**
- AS.050.105 Intro to Cognitive Neuropsychology
- AS.080.105 An Introduction to Neuroscience
- AS.080.203 Neuroscience Laboratory
- AS.080.305 The Nervous System I
- AS.080.308 Neuroeconomics
- AS.080.330 Brain Injury & Recovery
- AS.080.345 Great Discoveries in Neuroscience
- AS.080.355 Visual System
- AS.080.360 Diseases & Disorders of the Nervous Syst.
- AS.200.141 Foundations of Brain, Behavior & Cognition
- AS.200.367 Episodic Memory in Human & Nonhuman Animals
- EN.580.439 Models of Physiological Processes in the Neuron

**Area F: Advanced Course Search Tool**
- AS.050.318 (080.400) Practicum in Lang 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. Junior or senior status required. Students must have an A- or better in AS.080.203 OR AS.050.203, OR AS.050.105. Additional information found on the Neuroscience Department website at: krieger.jhu.edu/neuroscience/practicums/language/index.html

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