## Fall 2021 Courses for Cognitive Science Majors

The following courses satisfy degree requirements for the Cognitive Science major in the specified term. The Advanced Course Search tab in SIS also allows you to search 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 (<sciolt03@jhu.edu>) and provide a course description and syllabus. Note: Course offerings are subject to change; departments may add or cancel courses at any time.

### Math

#### Math Option A
- AS.110.106/108 Calculus I
- AS.110.107/109 Calculus II OR AS.110.113 Honors Single Variable Calculus
- AS.110.201/212 Linear Algebra OR EN.553.291 Linear Algebra & Differential Equations
- EN.553.171 Discrete Mathematics

#### Math Option B

**Required math option if Area A is one of your focal areas**
- AS.200.200 Research Methods in Psychology
  - EN.553.111 Statistical Analysis I

- **Stats I applicable only if student entered Fall 2017 or prior and they are completing “old” Math Option B sequence Visit [https://bit.ly/2ih7Xpp](https://bit.ly/2ih7Xpp) for details.**

### Courses by Focal Area

#### Area A: Cognitive Psych. & Cognitive Neuropsych. [COGS-COGPSY]
- AS.050.102 Language & Mind
- AS.050.105 Introduction to Cognitive Neuropsychology
- AS.050.236 Neurolinguistics
- AS.050.358 Language & Thought
- AS.200.334 Human Memory Psychology
- AS.200.348 First Language Acquisition
- AS.200.352 Applying Cognitive Neuroscience to AI NEW
- AS.200.101 Introduction to Psychology
- AS.200.132 Introduction to Developmental Psychology
- AS.200.141 Foundations of Brain, Behavior & Cognition
- AS.200.322 Clinical Neuropsychology
- AS.200.334 Human Memory Psychology added
- AS.376.371 Introduction to Music Cognition
- AS.200.380 Neurobiology of Human Cognition

#### Area B: Linguistics [COGS-LING]
- AS.050.102 Language & Mind
- AS.050.105 Introduction to Cognitive Neuropsychology
- AS.050.317 Semantics I
- AS.050.348 First Language Acquisition
- AS.050.358 Language & Thought
- EN.601.465 Natural Language Processing
- EN.601.467 Introduction to Human Language Technology

#### Area C: Computational Approaches to Cognition [COGS-COMPCG]
- AS.050.352 Applying Cognitive Neuroscience to AI NEW
- AS.050.375 Probabilistic Models of the Visual Cortex
- AS.050.383 Computational Social Cognition NEW
- AS.080.316 Prefrontal Cortex- Computational Models & Neurophysiology
- AS.080.355 Computational Principles of Biological Vision
- AS.200.357 Advanced Statistical Methods
- AS.250.205 Introduction to Computing
- EN.520.315 Intro to Bio-Inspired Processing of A/V Signals
- EN.520.412 Machine Learning for Signal Processing
- EN.520.414 Image Processing & Analysis
- EN.553.436 Introduction to Data Science
- EN.601.226 Data Structures
- EN.601.229 Computer System Fundamentals
- EN.601.231 Automata & Computation Theory
- EN.601.320 Parallel Programming (EN.601.420)
- EN.601.428 Compilers & Interpreters
- EN.601.433 Intro Algorithms
- EN.601.461 Computer Vision

#### Area D: Philosophy of Mind [COGS-PHLMND]
- AS.150.136 Philosophy & Science: An Introduction to Both
- AS.150.223 Formal Methods of Philosophy (AS.150.434)
- AS.150.451 Animal Points of View

#### Area E: Neuroscience [COGS-NEURO]
- AS.050.105 Introduction to Cognitive Neuropsychology
- AS.050.236 Neurolinguistics
- AS.050.352 Applying Cognitive Neuroscience to AI NEW
- AS.050.383 Computational Social Cognition NEW
- AS.080.250 Neuroscience Laboratory
- AS.080.305 Neuroscience: Cellular and Systems I
- AS.080.308 Neuroeconomics
- AS.080.316 Prefrontal Cortex- Computational Models & Neurophysiology
- AS.080.355 Computational Principles of Biological Vision
- AS.080.360 Diseases & Disorders of the Nervous System
- AS.080.370 The Cerebellum: Is it just for motor control?
- AS.200.141 Foundations of Brain, Behavior & Cognition
- AS.200.311 Sensory Representations in the Brain
- AS.200.344 Human Memory Psychology added
- AS.200.376 Neuropsychopharmacology
- AS.200.380 Neurobiology of Human Cognition

**AS.050.318 (080.400) Practicum in Language Disorders** (2 credits)
This course provides the opportunity to learn about adult aphasias - language disorders - 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 2 hr/wk. Three class meetings for orientation and reading assignments will be held on campus; training and practicum will be at a local aphasia support center. Transportation required. Prerequisite: A or better in AS.050.203, AS.080.203, AS.050.105, or AS.050.311; junior or senior status; and hold a 3.5 GPA or better. Instructor approval required.

Revision posted 4.16.21. [https://cogsci.jhu.edu/undergraduate/cognitive-science-major/]