

Spring 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 (sciotol3@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

For Math Option A offered courses

- AS.110.106/108 Calculus I
- AS.110.107/109 Calculus II
- AS.110.201/212 Linear Algebra
OR EN.553.291 Linear Algebra & Differential Equations
- AS.150.118 Introduction to Formal Logic
- EN.553.171 Discrete Mathematics

For Math Option B/Statistics Sequence offered courses

Required if Cognitive Psychology/Neuropsychology is a chosen focal area.

OLD Option B (option available only to majors enrolled at JHU FA17 or earlier)

- EN.553.111 Statistical Analysis I
- EN.553.112 Statistical Analysis II

NEW Option B (option for all majors)

- AS.200.201 Design & Analysis for Experimental Psychology

Offered Courses by Focal Area

Area A: Cognitive Psych. & Cognitive Neuropsych. [COGS-COGPSY]

- AS.050.116 Visual Cognition
- AS.050.203 Neuroscience: Cognitive
- AS.050.236 Neurolinguistics
- AS.050.315 Cognitive Neuropsychology of Visual Perception
- AS.050.333 Psycholinguistics
- AS.050.349 Second Language Acquisition
- AS.200.110 Introduction to Cognitive Psychology
- AS.200.141 Foundations of Brain, Behavior and Cognition
- AS.200.211 Sensation & Perception
- AS.200.385 Mind, Brain & Experience
- AS.365.106.02 Nature, Nurture, Cognition*
- AS.376.372 Topics in Music Cognition (PY.610.638)

Area B: Linguistics [COGS-LING]

- AS.050.320 Syntax I
- AS.050.325 Phonology I
- AS.050.333 Psycholinguistics
- AS.050.349 Second Language Acquisition
- AS.365.106.03 Language and Advertising*

Area C: Computational Approaches to Cognition [COGS-COMPCG]

- AS.050.116 Visual Cognition
- AS.050.326 Foundations of Cognitive Science
- AS.080.321 Computational Neuroscience
- AS.200.329 Real World Human Data: Analysis & Visualization
- AS.200.330 Human and Machine Intelligence
- EN.520.415 Image Process & Analysis II
- EN.520.433 Medical Image Analysis
- EN.553.426 Introduction to Stochastic Processes
- EN.553.493 Mathematical Image Analysis
- EN.601.226 Data Structures
- EN.601.229 Computer System Fundamentals
- EN.601.231 Automata & Computation Theory
- EN.601.426 Principles of Programming Languages
- EN.601.433 Intro Algorithms
- EN.601.463 Algorithms for Sensor-Based Robotics
- EN.601.464 Artificial Intelligence
- EN.601.475 Machine Learning
- EN.601.476 Machine Learning: Data to Models
- EN.601.482 Machine Learning: Deep Learning
- EN.601.491 Human-Robot Interaction

At most, one of the following Area C courses:

- AS.250.205 Introduction to Computing
- EN.500.112 Gateway Computing: JAVA
- EN.500.113 Gateway Computing: Python
- EN.500.114 Gateway Computing: MatLab
- EN.601.220 Intermediate Programming

Area D: Philosophy of Mind [COGS-PHLMND]

- AS.050.326 Foundations of Cognitive Science
- AS.150.118 Introduction to Formal Logic
- AS.150.411 Modal Psychology
- AS.150.432 Philosophy of Memory

Area E: Neuroscience [COGS-NEURO]

- AS.050.116 Visual Cognition
- AS.050.203 Neuroscience: Cognitive
- AS.050.236 Neurolinguistics
- AS.050.315 Cognitive Neuropsychology of Visual Perception
- AS.080.250 Neuroscience Laboratory
- AS.080.304 Neuroscience Learning and Memory
- AS.080.306 Neuroscience: Cellular and Systems II
- AS.080.321 Computational Neuroscience
- AS.080.328 Behavioral Neuroscience Lab
- AS.080.345 Great Discoveries in Neuroscience
- AS.200.141 Foundations of Brain, Behavior and Cognition
- AS.050.211 Sensation & Perception
- AS.200.304 Neuroscience of Decision Making
- AS.200.329 Real World Human Data: Analysis & Visualization
- AS.200.370 Functional Human Neuroanatomy
- AS.200.385 Mind, Brain & Experience

AS.050.318 (080.400) Practicum in Language Disorders (2 credits)

This course provides the opportunity to learn about adult aphasias, language disorders which are one of the 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 hrs/wk. Three class meetings for orientation and reading assignments will be held on campus. Training and practicum will be conducted at an aphasia support center. Transportation required. Student must have an A- or better in AS.050.203, AS.080.203, AS.050.105, OR AS.050.311; have junior or senior status; and hold a 3.5 GPA or better. Instructor permission required.

*These courses are part of the Hopkins Faculty Seminar Series for first-year students. To apply either to your cognitive science major or linguistics minor degree requirements in your online audit, contact the DUS or program coordinator after completing the course.

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<https://cogsci.jhu.edu/undergraduate/cognitive-science-major/>