### 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
- AS.150.420 Mathematical Logic I
- AS.050.371 Bayesian Inference
- 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

### Courses by Focal Area

#### Area A: Cognitive Psych. & Cognitive Neuropsych. [COGS-COGPSY]
- AS.050.102 Language and Mind
- AS.050.105 Introduction to Cognitive Neuropsychology
- AS.050.236 Neurolinguistics
- AS.050.312 Cognitive Neuroimaging Methods in High-Level Vision
- AS.050.348 First Language Acquisition
- AS.050.358 Language & Thought
- AS.200.101 Introduction to Psychology
- AS.200.132 Introduction to Developmental Psychology
- AS.200.141 Foundations of Brain, Behavior and Cognition
- AS.200.238 Primate Minds
- AS.200.322 Clinical Neuropsychology

#### Area B: Linguistics [COGS-LING]
- AS.050.102 Language and Mind
- AS.050.236 Neurolinguistics
- AS.050.357 Sociophonetics NEW
- 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
- EN.601.468 Machine Translation

#### Area C: Computational Approaches to Cognition [COGS-COMPCG]
- AS.050.347 Deep Learning for Cognitive Neuroscience NEW
- AS.050.365 Cracking the code: Theory and modeling of information coding in neural activity
- AS.050.371 Bayesian Inference
- AS.050.375 Probabilistic Models of the Visual Cortex (EN.601.485)
- AS.080.316 Prefrontal Cortex-Computational Models & Neurophysiology
- AS.080.355 Computational Principles of Biological Vision
- AS.250.205 Introduction to Computing
- 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.601.230 Mathematical Foundations for Computer Science
- EN.601.428 Compilers & Interpreters
- EN.601.433 Intro Algorithms
- EN.601.461 Computer Vision
- EN.601.463 Algorithms for Sensor-Based Robotics

#### Area D: Philosophy of Mind [COGS-PHLMND]
- AS.150.136 Philosophy & Science: An Introduction to Both
- AS.150.361 Partial Truth
- AS.150.423 Theory of Knowledge

#### Area E: Neuroscience [COGS-NEURO]
- AS.050.105 Introduction to Cognitive Neuropsychology
- AS.050.236 Neurolinguistics
- AS.050.244 Cognitive Neuroscience Lab
- AS.050.312 Cognitive Neuroimaging Methods in High-Level Vision
- AS.050.347 Deep Learning for Cognitive Neuroscience NEW
- AS.050.365 Cracking the code: Theory and modeling of information coding in neural activity
- AS.080.250 Neuroscience Laboratory
- AS.080.301 Behavioral Assessment of Animal Models of Cognition and Neuropsychiatric Disorders
- AS.080.305 Neuroscience: Cellular and Systems I
- AS.080.308 Neuroeconomics
- AS.080.316 Prefrontal Cortex-Computational Models & Neurophysiology
- AS.080.323 Advances in Neuroplasticity and its Applications in Neurology
- AS.080.355 Computational Principles of Biological Vision
- AS.080.360 Diseases & Disorders of the Nervous System
- AS.200.141 Foundations of Brain, Behavior & Cognition
- AS.200.376 Neuropsychopharmacology
- AS.200.380 Neurobiology of Human Cognition

**Note:** Course offerings are subject to change; departments may add or cancel courses at any time.