BRAIN AND COGNITIVE SCIENCES (COURSE

Department of Brain and Cognitive Sciences (http://catalog.mit.edu/ schools/science/brain-cognitive-sciences/#undergraduatetext)

Bachelor of Science in Brain and Cognitive Sciences

General Institute Requirements (GIRs)

The General Institute Requirements include a Communication Requirement that is integrated into both the HASS Requirement and the requirements of each major; see details below.

Summary of Subject Requirements	Subjects
Science Requirement	6
Humanities, Arts, and Social Sciences (HASS) Requirement [three subjects can be satisfied by 9.00 and two other HASS subjects in the Departmental Program]; at least two of these subjects must be designated as communication-intensive (CI-H) to fulfill the Communication Requirement.	8
Restricted Electives in Science and Technology (REST) Requirement [can be satisfied by 6.00 and 9.01 in the Departmental Program]	2
Laboratory Requirement (12 units) [can be satisfied by a laboratory in the Departmental Program]	1
Total GIR Subjects Required for SB Degree	17

Physical Education Requirement

Swimming requirement, plus four physical education courses for eight points.

Departmental Program

Choose at least two subjects in the major that are designated as communication-intensive (CI-M) to fulfill the Communication Requirement.

Required S	ubjects	Units
Tier I		
6.00	Introduction to Computer Science and Programming ¹	12
9.00	Introduction to Psychological Science	12
9.01	Introduction to Neuroscience	12
9.40	Introduction to Neural Computation	12
9.07	Statistics for Brain and Cognitive Science	12
Tier 2		
Select three taken:	e of the following; up to seven may be	36-84

	9.04	Sensory Systems	
	9.09[J]	Cellular and Molecular Neurobiology	
	9.10	Cognitive Neuroscience	
	9.14	Brain Structure and its Origins	
	9.15	Neural Circuits, Neuromodulatory, and Neuroendocrine Systems (CI-M)	
	9.16	Cellular and Synaptic Neurophysiology	
	9.18[J]	Developmental Neurobiology	
	9.19	Computational Psycholinguistics	
	9.20	Animal Behavior	
	9.21[J]	Cellular Neurophysiology and Computing	
	9.31	Neurobiology of Learning and Memory	
	9.35	Perceptual Systems	
	9.54	Computational Aspects of Biological Learning	
	9.66[J]	Computational Cognitive Science	
	9.85	Infant and Early Childhood Cognition (CI-M)	
L	aboratory [Tier	2]	
S	elect one of the	following:	12
	9.12	Experimental Molecular Neurobiology (CI-M)	
	9.17	Systems Neuroscience Laboratory (CI-M)	
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Laborato	ry [Tier 2]
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Select one of th	e following:	12
9.12	Experimental Molecular Neurobiology (CI-M)	
9.17	Systems Neuroscience Laboratory (CI-M)	
9.59[J]	Laboratory in Psycholinguistics (CI-M)	
9.63	Laboratory in Visual Cognition (CI-M)	

Tier 3

Select up to fou	r of the following:	0-48
9.24	Disorders and Diseases of the Nervous System	
9.26[J]	Principles and Applications of Genetic Engineering for Biotechnology and Neuroscience	
9.28	Current Topics in Developmental Neurobiology (CI-M)	
9.32	Genes, Circuits, and Behavior	
9.42	The Brain and Its Interface with the Body	
9.46	Neuroscience of Morality (CI-M)	
9.71	Functional MRI Investigations of the Human Brain	

Select one of the following (Laboratory cannot also 12-18 count for Research):

9.12	Experimental Molecular Neurobiology (CI-M)	
9.17	Systems Neuroscience Laboratory (CI-M)	
9.41	Research and Communication in Neuroscience and Cognitive Science (CI-M)	
9.50	Research in Brain and Cognitive Sciences	
9.59[J]	Laboratory in Psycholinguistics (CI-M)	
9.63	Laboratory in Visual Cognition (CI-M)	
9.URG	Undergraduate Research	
Restricted Electives		
Select zero to fo Restricted Elect	our subjects. 9.URG cannot count as a ive	0-48
Units in Major		168-195
Unrestricted Ele	48-72	
Units in Major T	(60)	
Total Units Beyo	180-183	

The units for any subject that counts as one of the 17 GIR subjects cannot also be counted as units required beyond the GIRs.

Combination of 6.0001 Introduction to Computer Science Programming in Python and 6.0002 Introduction to Computational Thinking and Data Science is also acceptable.