## Table of Curriculum (Undergraduate program)

Classification	Course No.	Computer Code	Course Name	Lecture; Lab.; Credit (Assignment)	Semester	Note
Mandatory Major	BCS200	G6.200	Laboratory in Animal Brain Anatomy and Physiology	1:9:3(10)	spring or fall	
	BCS320	G6.320	Laboratory in Human Brain Anatomy and Physiology	1:9:3(10)	spring or fall	
	BCS410	G6.410	Laboratory in Experimental Data Analysis and Modeling	1:9:3(10)	spring or fall	0
	BCS201	G6.201	Biology of Neurons	3:0:3(6)	spring or fall	
	BCS202	G6.202	Systems Neuroscience	3:0:3(6)	spring or fall	
	BCS221	G6.221	Cognitive Neuroscience	3:0:3(6)	spring or fall	
	BCS222	G6.222	Psychological and Behavioral Science	3:0:3(6)	spring or fall	
	BCS301	G6.301	Developmental Neuroscience	3:0:3(6)	spring or fall	
	BCS302	G6.302	Gene, Circuit, Behavior	3:0:3(6)	spring or fall	
	BCS303	G6.303	Statistics for Brain and Cognitive Sciences	3:0:3(6)	spring or fall	
	BCS304	G6.304	Theoretical Neuroscience	3:0:3(6)	spring or fall	
Elective	BCS341	G6.341	Methods in Brain and Cognitive Sciences	3:0:3(6)	spring or fall	
Major	BCS361	G6.361	Disorders and Diseases of the Nervous System	3:0:3(6)	spring or fall	
	BCS401	G6.401	History of Brain Science	3:0:3(6)	spring or fall	
	BCS421	G6.421	Philosophical Issues in Brain and Cognitive Sciences	3:0:3(6)	spring or fall	0
	BCS441	G6.441	How Al and the Brain Work	3:0:3(6)	spring or fall	0
	BCS442	G6.442	Principles of Brain Engineering	3:0:3(6)	spring or fall	0
	BCS462	G6.462	History of Psychiatry and Neurology	3:0:3(6)	spring or fall	0
	BCS481	G6.481	Special Topics in Brain and Cognitive Sciences	3:0:3(6)	spring or fall	0
	BCS482	G6.482	Current Topics in Brain and Cognitive Sciences	3:0:3(6)	spring or fall	0
	BCS490	G6.490	BS Thesis Research	0:9:3(0)	spring, fall	
Research	BCS495	G6.495	BS Individual Study	0:6:1(0)	spring, summer, fall, winter	
	BCS496	G6.496	Seminar(BS): cepartmental colloquium	1:0:1(0)	spring, fall	

 $<sup>\</sup>ensuremath{\circledcirc}$  : Course mutually recognized by undergraduate and graduate programs

## Table of Curriculum (Graduate program)

Classification	Course No.	Computer Code	Course Name	Lecture; Lab.; Credit (Assignment)	Semester	Note
	BCS501	G6.501	Molecular and Cellular Neurobiology	3:0:3(6)	spring or fall	0
	BCS502	G6.502	Computational Cognitive Science	3:0:3(6)	spring or fall	0
	BCS503	G6.503	Neural Circuits for Cognition	3:0:3(6)	spring or fall	0
	BCS504	G6.504	Neural Computation	3:0:3(6)	spring or fall	0
	BCS505	G6.505	Neurogenetics	3:0:3(6)	spring or fall	0
	BCS506	G6.506	Quantitative Methods and Computational Models in Neuroscience	3:0:3(6)	spring or fall	0
	BCS507	G6.507	Structural Organization and Development of the Nervous System	3:0:3(6)	spring or fall	0
	BCS521	G6.521	Evolutionary Psychology	3:0:3(6)	spring or fall	0
	BCS522	G6.522	Language in the Mind and Brain	3:0:3(6)	spring or fall	0
	BCS523	G6.523	Principles of Cognitive Neuroscience	3:0:3(6)	spring or fall	0
	BCS524	G6.524	The Computer and the Mind	3:0:3(6)	spring or fall	0
	BCS541	G6.541	Neuroscience-inspired Al	3:0:3(6)	spring or fall	0
Elective Course	BCS542	G6.542	Modern Brain-Computer Interface	3:0:3(6)	spring or fall	0
	BCS561	G6.561	Neurological Disorders	3:0:3(6)	spring or fall	0
	BCS562	G6.562	Psychiatric Disorders	3:0:3(6)	spring or fall	0
	BCS580	G6.580	Critical Thinking and Scientific Writing	3:0:3(6)	spring or fall	0
	BCS601	G6.601	Attention: neural mechanisms and cognition	3:0:3(6)	spring or fall	
	BCS602	G6.602	Audition: neural mechanisms and cognition	3:0:3(6)	spring or fall	
	BCS603	G6.603	Decision-making: neural mechanisms and cognition	3:0:3(6)	spring or fall	
	BCS604	G6.604	Emotion: neural mechanisms and cognition	3:0:3(6)	spring or fall	
	BCS605	G6.605	Memory: neural mechanisms and cognition	3:0:3(6)	spring or fall	
	BCS606	G6.606	Sensory and Motor Systems	3:0:3(6)	spring or fall	
	BCS607	G6.607	Vision: neural mechanisms and cognition	3:0:3(6)	spring or fall	
	BCS608	G6.608	Neurons and Glia	3:0:3(6)	spring or fall	
	BCS609	G6.609	Sleep and Biological Rhythms	3:0:3(6)	spring or fall	

Classification	Course No.	Computer Code	Course Name	Lecture; Lab.; Credit (Assignment)	Semester	Note
	BCS610	G6.610	Stem Cells, Organoids, Neurotoxicity and Repair	3:0:3(6)	spring or fall	
	BCS611	G6.611	Transcriptomics, Genomics, and Epigenomics	3:0:3(6)	spring or fall	
	BCS612	G6.612	Neuroimmunology	3:0:3(6)	spring or fall	
	BCS621	G6.621	Functional MRI Methods	3:0:3(6)	spring or fall	
	BCS622	G6.622	Methods in Neuromodulation	3:0:3(6)	spring or fall	
	BCS623	G6.623	Neuroethics: neuroscience of morality	3:0:3(6)	spring or fall	
	BCS624	G6.624	Neuroethology: animal behavior	3:0:3(6)	spring or fall	
	BCS625	G6.625	Reasoning in the Brain	3:0:3(6)	spring or fall	
	BCS641	G6.641	Neuromorphic Engineering	3:0:3(6)	spring or fall	
	BCS642	G6.642	Neuroprosthetics	3:0:3(6)	spring or fall	
	BCS661	G6.661	Aging and Neurodegenerative Disorders	3:0:3(6)	spring or fall	
	BCS662	G6.662	Developmental Disorders	3:0:3(6)	spring or fall	
	BCS663	G6.663	Neural and Cognitive Rehabilitation	3:0:3(6)	spring or fall	
	BCS701	G6.701	Statistical Learning Theory and Applications	3:0:3(6)	spring or fall	
	BCS702	G6.702	Structural and Functional Connectomics	3:0:3(6)	spring or fall	
	BCS721	G6.721	Art, Aesthetics, and the Brain	3:0:3(6)	spring or fall	
	BCS722	G6.722	Biological Evolution of Homo Sapiens	3:0:3(6)	spring or fall	
	BCS723	G6.723	Brain-Body Interactions and Embodied Cognition	3:0:3(6)	spring or fall	
	BCS724	G6.724	Comparative and Evolutionary Neuroscience	3:0:3(6)	spring or fall	
	BCS725	G6.725	Consumer Behavior and Neuromarketing	3:0:3(6)	spring or fall	
	BCS726	G6.726	Infant and Early Childhood Cognition	3:0:3(6)	spring or fall	
	BCS727	G6.727	Religion in the Brain	3:0:3(6)	spring or fall	
	BCS741	G6.741	Materials Physics of Neural Interfaces	3:0:3(6)	spring or fall	
	BCS742	G6.742	Neurorobotics	3:0:3(6)	spring or fall	
	BCS743	G6.743	Principles and Applications of Genetic Engineering for Neuroscience	3:0:3(6)	spring or fall	
	BCS761	G6.761	Advanced Intervention for Neuropsychiatric Disorders	3:0:3(6)	spring or fall	
	BCS762	G6.762	Digital Therapeutics	3:0:3(6)	spring or fall	

Classification	Course No.	Computer Code	Course Name	Lecture; Lab.; Credit (Assignment)	Semester	Note
	BCS881	G6.881	Advanced Topics in Brain and Cognitive Sciences	3:0:3(6)	spring or fall	
	BCS882	G6.882	Current Issues in Brain and Cognitive Sciences	3:0:3(6)	spring or fall	
Research	BCS960	G6.960	MS Thesis Research	0:0:0	spring, fall	
	BCS966	G6.966	Seminar(MS): departmental colloquium	1:0:1(0)	spring, fall	
	BCS998	G6.998	Practical Experience in Brain and Cognitive Sciences(MS)	0:18:3(0)	spring, summer, fall, winter	
	BCS980	G6.980	Ph.D. Dissertation Research	0:0:0	spring, fall	
	BCS986	G6.986	Seminar(Ph.D.): departmental colloquium	1:0:1(0)	spring, fall	
	BCS999	G6.999	Practical Experience in Brain and Cognitive Sciences(Ph.D)	0:18:3(0)	spring, summer, fall, winter	

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