

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 | ◎ |
| Elective Major | 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 | |
| | BCS341 | G6.341 | Methods in Brain and Cognitive Sciences | 3:0:3(6) | spring or fall | |
| | 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 | ◎ |
| | BCS441 | G6.441 | How AI and the Brain Work | 3:0:3(6) | spring or fall | ◎ |
| | BCS442 | G6.442 | Principles of Brain Engineering | 3:0:3(6) | spring or fall | ◎ |
| | BCS462 | G6.462 | History of Psychiatry and Neurology | 3:0:3(6) | spring or fall | ◎ |
| BCS481 | G6.481 | Special Topics in Brain and Cognitive Sciences | 3:0:3(6) | spring or fall | ◎ | |
| BCS482 | G6.482 | Current Topics in Brain and Cognitive Sciences | 3:0:3(6) | spring or fall | ◎ | |
| Research | BCS490 | G6.490 | BS Thesis Research | 0:9:3(0) | spring, fall | |
| | BCS495 | G6.495 | BS Individual Study | 0:6:1(0) | spring, summer, fall, winter | |
| | BCS496 | G6.496 | Seminar(BS): departmental colloquium | 1:0:1(0) | spring, fall | |

◎ : 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 |
|-----------------|------------|---------------------------------------|---|------------------------------------|----------------|------|
| Elective Course | BCS501 | G6.501 | Molecular and Cellular Neurobiology | 3:0:3(6) | spring or fall | ⊙ |
| | BCS502 | G6.502 | Computational Cognitive Science | 3:0:3(6) | spring or fall | ⊙ |
| | BCS503 | G6.503 | Neural Circuits for Cognition | 3:0:3(6) | spring or fall | ⊙ |
| | BCS504 | G6.504 | Neural Computation | 3:0:3(6) | spring or fall | ⊙ |
| | BCS505 | G6.505 | Neurogenetics | 3:0:3(6) | spring or fall | ⊙ |
| | BCS506 | G6.506 | Quantitative Methods and Computational Models in Neuroscience | 3:0:3(6) | spring or fall | ⊙ |
| | BCS507 | G6.507 | Structural Organization and Development of the Nervous System | 3:0:3(6) | spring or fall | ⊙ |
| | BCS521 | G6.521 | Evolutionary Psychology | 3:0:3(6) | spring or fall | ⊙ |
| | BCS522 | G6.522 | Language in the Mind and Brain | 3:0:3(6) | spring or fall | ⊙ |
| | BCS523 | G6.523 | Principles of Cognitive Neuroscience | 3:0:3(6) | spring or fall | ⊙ |
| | BCS524 | G6.524 | The Computer and the Mind | 3:0:3(6) | spring or fall | ⊙ |
| | BCS541 | G6.541 | How AI and the Brain Learn | 3:0:3(6) | spring or fall | ⊙ |
| | BCS542 | G6.542 | Modern Brain-Computer Interface | 3:0:3(6) | spring or fall | ⊙ |
| | BCS561 | G6.561 | Neurological Disorders | 3:0:3(6) | spring or fall | ⊙ |
| | BCS562 | G6.562 | Psychiatric Disorders | 3:0:3(6) | spring or fall | ⊙ |
| | BCS580 | G6.580 | Critical Thinking and Scientific Writing | 3:0:3(6) | spring or fall | ⊙ |
| | 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 | |
| | 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 | | |

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| | 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 | |
| | 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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