

## Specialized Elective Courses

Course department and number	Course title
<i>Neuroscience Core Courses</i>	
NRSC 5100-2/5	Survey and Integration of Neuroscience I
NRSC 5110-3	Survey and Integration of Neuroscience II
NRSC 6100-2	Advances in Neuroscience Research
<i>Department of Chemistry, College of Arts and Sciences</i>	
CHEM 5800-3	Cell Regulation
CHEM 5801-3	Advanced Signal Transduction and Cell Cycle Regulation
<i>Department of Computer Science, College of Engineering</i>	
CSCI 5622-3	Neural Networks / Machine Learning
CSCI 5722-3	Computer Vision
CSCI 5832-3	Natural Language Processing
CSCI 6302-3	Speech Recognition and Synthesis
CSCI 6622-3	Advanced Neural Networks / Machine Learning
<i>Department of Electrical and Computer Engineering, College of Engineering and Applied Science</i>	
ECEN 5811-3	Neural Signals
ECEN 5831-3	Brains, Minds and Computers
<i>Department of Ecology and Evolutionary Biology, College of Arts and Sciences</i>	
EBIO 5800	Animal Behavior
<i>Department of Integrative Physiology, College of Arts and Sciences</i>	
IPHY 5440-3	Vertebrate Endocrinology
IPHY 5580-3	Sleep Physiology
IPHY 5600-3	Immunology
IPHY 5700-5	Vertebrate Histology
IPHY 5720-4	Neurophysiology
IPHY 5730-3	Integrative Motor Control
IPHY 6010-3	Stress Physiology
IPHY 6640-3	Systemic Cardiovascular Regulation
IPHY 6650-3	Cellular Cardiovascular Physiology

<i>Department of Molecular, Cellular and Developmental Biology, College of Arts and Sciences</i>	
MCDB 5210-3	Cell Structure and Function
MCDB 5250-3	Topics in Developmental Genetics
MCDB 5426-3	Cell Signaling and Developmental Regulation
MCDB 5471-3	Mechanisms of Gene Regulation in Eukaryotes
MCDB 5680-3	Mechanisms of Aging
MCDB 5777-3	Molecular Neurobiology
<i>Department of Psychology and Neuroscience, College of Arts and Sciences</i>	
PSYC/NRSC 5015-3	Affective Neuroscience
PSYC/NRSC 5032-3	Neurobiology of Learning and Memory
PSYC/NRSC 5052-4	Behavioral Neuroscience (overlaps with NRSC 5100, depending on Instructor)
PSYC/NRSC 5072-3	Clinical Neuroscience
PSYC/NRSC 5082-3	Neural Circuits of Learning and Decision Making
PSYC/NRSC 5092-4	Behavioral Neuroendocrinology
PSYC 5102-3	Introduction to Behavioral Genetics
PSYC 5112-3	Concepts in Behavior Genetics
PSYC 5131-3	Affective Science
PSYC/NRSC 5132-3	Neuropharmacology
PSYC 5162-3	Developmental Behavioral Genetics
PSYC 5175-4	Computational Cognitive Neuroscience
PSYC 5200-3	Physiological Genetics and Genomics
PSYC 5232-2	Molecular Genetics and Physiology
PSYC/NRSC 5262-3	Mammalian Neuroanatomy
PSYC/NRSC 5545-3	Neurobiology of Addiction
PSYC 5665-2	Prosem: Higher-level perception & attention
PSYC 5665-2	Prosem: Learning and memory
PSYC 5685-2	Prosem: Sensory Processes
PSYC 5815-2	Prosem: Language
PSYC 5815-2	Prosem: Higher-level cognition
PSYC/NRSC 5911-3	Teaching of Neuroscience
NRSC 6602-1	Behavioral Neuroscience Professional Skills Development
NRSC-7102-2 or 3	Topics in Neuroscience
NRSC-7112-3	Special Topics in Neuroscience I
NRSC-7122-3	Special Topics in Neuroscience II
NRSC-7132-3	Special Topics in Neuroscience III

NRSC-7142-3	Special Topics in Neuroscience IV
NRSC-7152-3	Special Topics in Neuroscience V
PSYC 7215-3	Translational Cognitive Neuroscience
PSYC 7215-3	Mathematical Modeling of Cognition
PSYC 7215-3	Principles of fMRI
PSYC 7536-3	The Social Brain

<i>Department of Speech, Language and Hearing Sciences, College of Arts and Sciences</i>	
SLHS 5252-3	Acquired Adult Language Disorders
SLHS 5282-3	Acquired Cognitive Disorders
SLHS 5292-3	Motor Speech Disorders and Dysphagia
SLHS 5576-2	Communication Neuroscience
SLHS 6006-3	Advanced Hearing Science
SLHS 6564-3	Auditory Processes: Neurodiagnosotics
SLHS 7100-3	Cognitive Bases of Human Communication and its Disorders
SLHS 7540-3	Auditory Processes: Physiology, Assessment, and Management of the Vestibular System
SLHS 8206-3	Models of Speech Production and Perception