

NEUROSCIENCE, B.A.

Requirements

Code	Title	Hours
Required Courses from BIO/PSY/NEU		
27		
<i>Biology:</i>		
BIO 150 & 150L	Biology I and Biology I Lab	4
BIO 160 & 160L	Biology II and Biology II Lab	4
<i>Psychology:</i>		
PSY 151	Introductory Psychology	3
<i>Neuroscience:</i>		
NEU 200	Introduction to Neuroscience	3
NEU 354 & 354L	Neuroscience Methods and Neuroscience Methods Lab	4
or BIO 354 & 354L	Methods in Neuroscience and Neuroscience Methods Lab	
NEU 389	Neuroscience Seminars	3
<i>Neuroscience and the Humanities:</i>		
NEU 220	Survey of Neuroscience and the Humanities	3
Choose a second course from the following:		
NEU 221	Neuroscience and Art	3
NEU 222	Neuroscience and Movement	3
NEU 223	Neuroscience and Music	3
NEU 224	Neuroscience and History	3
NEU 225	Neuroscience and Literature	3
NEU 226	Neuroscience and Economics	3
NEU 227	Neuroscience and Ethics	3
EDU 211	How People Learn	3
HES 320	Mindfulness Meditation in Behavioral Medicine	2
LIN 330	Introduction to Psycholinguistics and Language Acquisition	3
PHI 374	Philosophy of Mind	3
SOC 154	Social Deviance	3
SOC 327	Sociology of Emotion	3
SOC 355	Social Psychology of Inequality	3
Elective Courses		
<i>Biology Electives</i>		
6-8		
Two courses must be selected from the following:		
BIO 301	Topics in Biology (if the course is related to neuroscience)	3-4
BIO 302	Topics in Biology (if the course is related to neuroscience)	3-4
BIO 303	Topics in Biology (if the course is related to neuroscience)	3-4
BIO 304	Topics in Biology (if the course is related to neuroscience)	3-4
BIO 305	Topics in Biology (if the course is related to neuroscience)	3-4

BIO 306	Topics in Biology (if the course is related to neuroscience)	3-4
BIO 323 & 323L	Animal Behavior and Animal Behavior Lab *	3
BIO 324	Hormones and Behavior	3
BIO 339	Animal Cognition	3
BIO 343	Molecular Neuroscience	3
BIO 346 & 346L	Neurobiology and Neurobiology Lab	3-4
BIO 352	Developmental Neuroscience	4
BIO 353	Functional Neuroanatomy	3
BIO 361	Principles of Biological Microscopy	4
BIO 363 & 363L	Sensory Biology and Sensory Biology Lab	3-4
BIO 374	Neuropharmacology **	3
<i>Psychology Electives</i>		
6		
One course must be chosen from the following:		
PSY 220	Biopsychology	3
PSY 221	Cognitive Psychology	3
PSY 222	Psychopharmacology **	3
PSY 223	Social Affective Neuroscience	3
PSY 237	Topics in Brain and Cognitive Sciences	3
PSY 241	Developmental Psychology	3
PSY 263	Stress and Coping	3
PSY 264	Abnormal Psychology	3
One course must be chosen from the following:		
PSY 321	Seminar in Cognitive Psychology	3
PSY 325	Seminar in Perception	3
PSY 327	Seminar in Physiological Psychology	3
PSY 334	Seminar in Animal Behavior *	3
PSY 352	Research in Learning Theory	3
<i>Co-requirements</i>		
STA 111	Elementary Probability and Statistics	3
Choose four of the following:		

* Either BIO 323 or PSY 334 may count towards the major, but not both.

** Either BIO 374 or PSY 222 may count towards the major, but not both.

For the B.A. major, the schedule of biology and related courses is flexible. After completing PSY 151, BIO 150, BIO 150L, BIO 160, and BIO 160L, students should begin taking NEU core courses. It is recommended that all prospective majors take CHM 111 and CHM 111L in the fall of the first year and complete BIO 150 and BIO 150L and STA 111 or an equivalent course during either the fall or spring of the first year. Students taking the B.S. major with an interest in a health profession career are additionally advised to take CHM 122 and CHM 122L in the spring of the first year. These students should select additional co-requirements after consulting with a health professions adviser.

A maximum of two hours of 390-sequence courses may be counted as hours in the major, but an additional six hours may be taken and applied toward graduation as elective hours. The Neuroscience Program may require participation in assessment activities as part of ongoing program evaluation.

Code	Title	Hours
Any CHM course at the 100- level or above, except CHM 108, 301, 381, 390, 391, or CHM 395		
ANT 361	Evolution and Human Behavior	3
ANT 366	Human Evolution	3
COM 345	Rhetoric of Science and Technology	3
CSC 111	Introduction to Computer Science	4
CSC 112	Fundamentals of Computer Science	4
CSC 201	Data Structures and Algorithms	3
CSC 231	Programming Languages	3
CNS 352	Addiction	3
ECN 319	Behavioral Economics	3
EDU 312	Teaching Exceptional Children	3
EDU 313	Human Growth and Development	3
ENG 361	Literature and Science	3
HES 262	Statistics in the Health Sciences	3
HES 350	Human Physiology	3
HES 352	Human Gross Anatomy	4
HES 360	Epidemiology	3
HST 113	Health, Disease, Disability, and Well-Being in World History	3
HST 339	Sickness and Health in American History	3
MTH 111	Calculus with Analytic Geometry I	4
MTH 112	Calculus with Analytic Geometry II	4
MTH 113	Multivariable Calculus	4
MTH 117	Discrete Mathematics	4
PHI 114	Philosophy of Human Nature	3
PHI 161	Introduction to Bioethics	3
PHY 113 & 113L	General Physics I and General Physics Lab	4
PHY 114 & 114L	General Physics II and General Physics II Lab	4
PHY 115	The Physics of Music	4
PHY 123 & 123L	General Physics I - Studio Format and General Physics I - Studio Format Lab	4
PHY 124 & 124L	General Physics II - Studio Format and General Physics II - Studio Format Lab	4
REL 307	Magic, Science and Religion	3
SOC 329	Health Inequalities	3
WGS 358	Mothers and Daughters	3
WRI 320	Communicating Science: Principles of Effective Science Communication	3

pursue this option should refer to the honors guidelines, available on the Department website, for an overview of requirements and procedures and must obtain preapproval from the Honors Program Coordinator during the fall of the senior year. Upon completion of all requirements, a recommendation of honors at graduation will be made by the department based upon the student's overall academic record and the quality of the final project.

Honors

Highly qualified majors are invited by the program to apply for admission to the honors program in neuroscience. To be graduated with the distinction "Honors in Neuroscience," a graduating student must have a minimum GPA of 3.0 in all courses and a 3.3 in elective BIO, NEU and PSY courses. The Honors designation will involve a project that provides an in-depth integration of neuroscience with humanistic inquiry, drawing on coursework, lived experience, and personal and career aspirations. This project should reflect the student's ability to synthesize scientific understanding with insights from disciplines such as philosophy, history, ethics, literature, religion, art, or cultural studies. Students who wish to