

NEUROSCIENCE MINOR

The Neuroscience minor is designed for students going into graduate studies in neuroscience, animal behavior, psychology or medicine. Students develop a strong background of how the nervous system works, from the social and behavioral to the cellular and molecular levels. Beyond core requirements, students may focus on topics of specific interest in the very broad field of neuroscience. Research experience in neuroscience is required, and students must apply to be accepted to the neuroscience minor.

Admissions

There is no application for the Neuroscience minor.

Degree Requirements (18 Hours)

Eighteen credit hours are required to satisfy the minor. Students must complete the required three credit Introduction to Neuroscience course and 15 credit hours of neuroscience electives. No more than 9 credit hours can be applied for each course designator (e.g., PSYC, BIOL, NSCI, etc.).

Additional honors courses or other specialized courses in the neurosciences may also satisfy the minor requirements provided the course substitutions are approved by the director of the neuroscience minor. No more than a total of six credits of independent study credits may count towards the minor.

Required Prerequisites

These courses may apply to a student's Carolina Core or College Requirements.

Course	Title	Credits
BIOL 101	Biological Principles I	3
PSYC 101	Introduction to Psychology	3
Total Credit Hours		6

Required for the Minor (3 Hours)

Course	Title	Credits
NSCI 300	Introduction to Neuroscience ¹	3
Total Credit Hours		3

¹ This course is cross-listed with PSYC 455. Students who have previously taken PSYC 455 can have it count towards this requirement

Electives (15 hours)

Select courses from the following list. Up to 6 credits of independent study in neuroscience may count in the Elective group. Sometimes Honors courses and special topics courses in neuroscience are offered and these are approved on a semester by semester basis by the director of the neuroscience minor.

Note that many of the courses below have prerequisites and/or co-requisites. Course instructors can always give permission to take the course without the listed prerequisites and/or co-requisites and you should consult with individual instructors if you think that you have an adequate background and would like to take the course.

Course	Title	Credits
BIOL 302	Cell and Molecular Biology	3
BIOL 302L	Cell and Molecular Biology Laboratory	1
BIOL 303	Fundamental Genetics	3
BIOL 405	Cellular and Molecular Neurobiology	3
BIOL 460	Advanced Human Physiology	3
BIOL 461	Advanced Human Anatomy	3
BIOL 505	Developmental Biology	3
BIOL 530	Histology	4
BIOL 534	Animal Behavior	3
BIOL 541	Biochemistry	3
BIOL 541L	Biochemistry Laboratory	1
BIOL 543	Comparative Physiology	3
BIOL 553	Genomics	3
BIOL 612	Virology - Classical and Emerging Concepts	3
BIOL 614	Stem Cell Biology	3
BIOL 620	Immunobiology	3
BIOL 634	Biology of Neurological Diseases	3
BIOL 635	Neurophysiology	4
BIOL 665	Human Molecular Genetics	3
BIOL 667	Molecular and Genetic Mechanisms of Disease Pathogenesis	3
BMEN 321	Biomonitoring and Electrophysiology	3
CSCE 555	Algorithms in Bioinformatics	3
ELCT 220	Electrical Engineering for Non-Majors	3
EXSC 351	Acquisition of Motor Skills	3
EXSC 303	Perceptual-Motor Development	3
NSCI 498	Individual Research in Neuroscience	1-6
NSCI 560	Advanced Topics in Neuroscience	3
NSCI 570	Neuroscience Laboratory	3
PHIL 351	Mind and Nature	3
PSYC 370	Psychology of Consciousness	3
PSYC 400	Survey of Learning and Memory	3
PSYC 405	Cognitive Psychology	3
PSYC 450	Sensation and Perception	3
PSYC 503	Psychology of Drug Use and Effects	3
PSYC 507	Cognitive Neuroscience	3
PSYC 550	Advanced Sensation and Perception	3
PSYC 560	Advanced Topics in Neuroscience	3
PSYC 570	Neuroscience Laboratory	3
PSYC 571	Cognitive Neuroscience Laboratory	3
PSYC 572	Cognitive Psychology Laboratory	3