

Neuroscience Major Requirements (72)

Foundation Courses

- BIOL 107 - Introduction to Cell Biology
- CHEM 101 - Introductory University Chemistry I
- MATH 134 - Calculus for the Life Sciences I
- PHYS 124 - Particles and Waves
- PHYS 126 - Fluids, Fields, and Radiation
- PSYCH 104 - Basic Psychological Processes

3 units from:

- MATH 136 - Calculus for the Life Sciences II
- STAT 151 - Introduction to Applied Statistics I

Senior Courses

- BIOCH 200 - Introductory Biochemistry
- BIOL 207 - Molecular Genetics and Heredity
- CHEM 261 - Organic Chemistry I
- CHEM 263 - Organic Chemistry II
- NEURO 210 - Introduction to Clinical Neuroscience
- NEURO 375 - Functional Neuroanatomy
- PHYSL 210 - Human Physiology
- PHYSL 372 - Systems Neuroscience
- PSYCH 275 - Brain and Behavior

Notes:

1. A maximum of 3 units is allowed from NEURO 450, NEURO 451 and NEURO 452.
2. Some courses appear on more than one list. Students may not use the same course to satisfy more than one list requirement.

3 units from:

- PMCOL 371 - Cellular Neuroscience
- ZOOL 342 - Neurobiology

6 units from:

- GENET 270 - Foundations of Molecular Genetics
- GENET 390 - Gene Manipulation
- PSYCH 371 - The Neurobiology of Learning and Memory
- PSYCH 375 - Introduction to Cognitive Neuroscience
- PSYCH 377 - Human Neuropsychology
- ZOOL 344 - Laboratory Exercises in Animal Physiology

- COMM
- COMM
- IND
- BO__
- BO__
- BSBS
- BSFS
- BSSS
- LAB

6 units from List A (Cellular and Molecular Neuroscience):

- NEURO 410 - Cellular and Molecular Aspects of Normal Aging and Neurodegenerative Disorders
- NEURO 411 - Clinical and Basic Science Aspects of Age-related Neurodegenerative Disorders
- NEURO 450 - Readings on Selected Topics in Neuroscience (if appropriate topic; see Note 1)
- NEURO 451 - Honors Research Project in Neuroscience (if appropriate topic; see Note 1)
- NEURO 452 - Honors Research Project in Neuroscience (if appropriate topic; see Note 1)
- PHYSL 444 - Current Topics in Neuroscience
- PMCOL 412 - Drugs and the Nervous System
- PMCOL 475 - Signal Transduction Systems as Pharmacological Targets
- PSYCH 478 - Behavior and Brain Chemistry

6 units from List B (Systems and Cognitive Neuroscience):

- KIN 497 - Selected Topics in Kinesiology and Sport (Computational Neuroscience)
- NEURO 450 - Readings on Selected Topics in Neuroscience (if appropriate topic; see Note 1)
- NEURO 451 - Honors Research Project in Neuroscience (if appropriate topic; see Note 1)
- NEURO 452 - Honors Research Project in Neuroscience (if appropriate topic; see Note 1)
- NEURO 520 - Neuroplasticity
- NEURO 525 - Neuroimaging in Neuroscience
- PHYSL 403 - Neuroendimmunomodulation
- PHYSL 405 - Sensory Physiology
- PSYCH 471 - Neurophysiology: Theory, Methods, and Analysis
- PSYCI 511 - Biological Aspects of Psychiatry