Major in Neuroscience Requirements (2025-2026, NEW PROGRAM)

THESE COURSES SHOULD BE TAKEN IN YEAR 1

THESE COURSES SHOULD BE TAKEN IN YEAR 2

THESE COURSES SHOULD BE TAKEN IN YEAR 3

THESE COURSES SHOULD BE TAKEN IN YEAR 4

IN ORDER TO GRADUATE YOU ALSO NEED TO SATISFY FACULTY OF SCIENCE STUDENTS COMMON REQUIREMENTS

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
- ☐ PHYSL 210 - Human Physiology
- ☐ PHYSL 372 - Systems Neuroscience
- ☐ PSYCH 275 - Brain and Behavior

3 units from:

- ☐ BIOL 201 - Eukaryotic Cellular Biology
- ☐ CELL 201 - Introduction to Molecular Cell Biology

3 units from:

- ☐ NEURO 371 - Cellular and Molecular 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

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
- ☐ PHYSL 444 - Current Topics in Neuroscience
- ☐ PHYSL 455 - Physiology of Lipids and Lipoproteins
- ☐ 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 520 - Neuroplasticity
- ☐ NEURO 525 - Neuroimaging in Neuroscience
- ☐ PHYSL 403 - Neuroendoimmunomodulation
- ☐ PHYSL 405 - Sensory Physiology
- ☐ PSYCH 471 - Neurophysiology: Theory, Methods, and Analysis
- ☐ PSYCI 511 - Biological Aspects of Psychiatry

Notes:

2. Some courses appear on more than one list. Students may not use the same course to satisfy more than one list requirement.