

Neuroscience B.S. Degree Requirements

Required Mentoring

NEUR 1950 (0) First-Year Mentoring

NEUR 2950 (0) Second-Year Mentoring

Enrollment in mentoring is required for graduation. These are zero credit "courses" that meet one time.

Courses in Neuroscience (8 credit hours)

NEUR 3400 (3) Introduction to Neuroscience 1

NEUR 3500 (3) Introduction to Neuroscience 2

NEUR 3550 (1) Neuroscience Lab

NEUR 4900 (1^) Neuroscience Seminar

Courses in Biology (24 credit hours)

BIOL 1240 (3) Principles of Biology I

BIOL 1245 (1) Principles of Biology I Laboratory

BIOL 1260 (3) Principles of Biology II

BIOL 1265 (1) Principles of Biology II Laboratory

BIOL 3020 (3) Cellular Biochemistry & Molecular Biology

BIOL 3040 (3) Cellular Structure & Function

BIOL Electives (10 credit hours from the list below; must include one lab course)

Biology Elective Courses (lab courses indicated in italic)

BIOL 3010 (3) Evolution

BIOL 3030 (3) Principles of Genetics

BIOL 3060 (1) Cell Structure & Function Laboratory

BIOL 3100 (1) Experiments in Genetics Lab

BIOL 3420 (5) Comparative Anatomy of the Vertebrates

BIOL 3470 (2) General Physiology Laboratory

BIOL 3480 (3) Exercise Physiology

BIOL 4010 (3) Sex, Evolution, and Behavior

BIOL 4030 (3) Introduction to Genomics

BIOL 4050 (2) Molecular Technique Lab

BIOL 4070 (3) Advanced Biological Chemistry

BIOL 4080 (3) Advanced Cell Biology

BIOL 4150 (3) Nerve Cell Mechanisms in Behavior

BIOL 4250 (3) Neurobiology of Disease

BIOL 4360 (3) Animal Behavior

BIOL 4370 (1) Animal Behavior Lab

BIOL 4410 (3) Comparative Animal Physiology

BIOL 4440 (4) Vertebrate Histology: Structure and Function of Tissues

BIOL 4500 (3) Introductory Endocrinology

BIOL 4510 (3) Behavioral Endocrinology

BIOL 4540 (3) Human Systemic Physiology

BIOL 4600 (3) Developmental Biology

BIOL 4610 (2) Developmental Biology Lab

BIOL 4630 (3) Foundations of Immunobiology

BIOL 4700 (3) Molecular Biology

Courses in Psychology (19 credit hours)

PSY 1010 (3) General Psychology

PSY 2050 (4) Foundations of Research Methods & Statistics w/ Lab

PSY 3100 (3) Brain, Mind, & Society

PSY Electives (9 credit hours from the list below)

Psychology Elective Courses

PSY 3120 (3) Cognitive Psychology

PSY 3160 (3) Learning & Memory

PSY 3210 (3) Developmental Psychology: Child

PSY 3230 (3) Developmental Psychology: Adolescence

PSY 3300 (3) Social Psychology

PSY 3310 (3) Personality Theory

PSY 4140 (3) Psychopharmacology

PSY 4150 (3) Science of Sleep

PSY 4350 (3) Health Psychology

PSY 4390 (3) Abnormal Psychology

Courses in Chemistry (8 credit hours)

CHEM 1110 (3) General Chemistry I Lecture

CHEM 1115 (1) General Chemistry I Laboratory

CHEM 1120 (3) General Chemistry II Lecture

CHEM 1125 (1) General Chemistry II Laboratory

Courses in Mathematics (4 credit hours)

MATH 1510 (4) Calculus I

Courses in Philosophy (3 credit hours)

PHIL 4280 (3) Biology and Mind

Courses in Physics (4 credit hours)

PHYS 1310 (3) Physics I

PHYS 1320 (1) Physics I Laboratory

Capstone/Inquiry/Honors Project (1-3 credit hours):

All neuroscience majors must complete a capstone or equivalent project (e.g., Psychology Capstone course, Biology Senior Inquiry, Honors Thesis, etc.). The rationale for this requirement is to provide the opportunity to integrate coursework with an active learning experience, such as research. Courses that meet this requirement include, but are not limited to, the following:

BIOL 4890 Senior Inquiry: Comprehensive Examination

BIOL 4970 Library Project

BIOL 4980 Advanced Independent Research

PSY 4010 Advanced Research Methods and Statistics

PSY 4880 Capstone Research Project

PSY 4900 Critical Thinking about Psych

Required Senior Residency

NEUR 4950 (0) Senior Residency

Enrollment in NEUR 4950 during your final semester is required for graduation. This is a zero credit "course" that notifies the Registrar of the student's intention to graduate that semester. No actual class attendance is involved.

^ NEUR 4900: This course is currently listed as a 3 credit hour course. This course is expected to be changed to a 1 credit hour course in Spring 2018.

Note: Many biology courses are offered only in one semester or in alternating years. Please consult with Neuroscience mentors.

Note: Students taking a Pre-Professional Health curriculum will be required to complete additional course requirements for medical or other professional schools as outlined by SLU's Pre-Professional Health Studies Program.