Electives (3 units)

Some of these courses have additional prerequisites

Chemistry

- CH241: Analytical/Bioanalytical Chemistry
- CH250: Structures of Organic Molecules
- CH251: Reactions of Organic Molecules
- CH382: Biochemistry I
- CH383: Biochemistry II
- CH480: Protein Structure, Function, and Disease

Human Biology & Kinesiology

- HK204: Intro to Human Anatomy
- HK321: Human Physiology
- HK354: Advanced Head and Neck Anatomy

Molecular Biology

- MB201: Laboratory in Molecular and Cellular Biology and Genetics
- MB231: Genetics
- Any 300-level MB Course

Mathematics

MA256: Mathematical Models in Biology

Physics

- PC141: Physics for the Life Sciences I
- PC142: Physics for the Life Sciences II
- PC241: Physics for the Physical Sciences I
- PC241: Physics for the Physical Sciences II

Psychology

Any 300-level or 400-level PY course

Neuroscience Major Requirements

Intro to Psychology (1 unit)

One of the following:

- **PY100:** Intro to Psychology
- **PY105:** Intro to Psychological Sciences
- AP (4 or 5) or IB (HL 5, 6, 7)

Methods I & 2 (2 units)

- PY205: Introduction to Methods **Statistics**
- PY301-309: Topics in Advanced Methods & Statistics

Mathematics and Computer Science (1 Unit)

MB131: Molecular and Cellular Biology

Molecular Biology (1 Unit)

Chemistry (2 Units)

- CH107: General Chemistry 1
- CH108: General Chemistry 2

One of the following:

- MA120: Applied Linear Algebra
- MA125: Pre-Calculus & Calculus
- MA126: Calculus I
- **CP115:** Computational Thinking
- CP116: Applied Python

Seminar Courses (2 Units)

2 of the following

- **PY408:** Topical Seminar (neuro only)
- **PY412:** Neuropsychology
- **PY419:** Neuroscience Methods
- PY433: Neuropharmacology
- MB355: Molecular Neurobiology
- MB415: Developmental Neurobiology
- CH410: Medicinal Chemistry

Research Presentation

Students must give an oral research presentation at the Psychology/Neuroscience Poster Day, CSURF, or other departmental or professional conference.

Research or internship experience can be a structured on-campus or off-campus research/internship experiences during the summer or school year. It can also be a research course from one of the following:

- PY251/451
- CH201/301/303/304/401/403/404
- HK350
- MB209/397/399/498

Core Courses (3 Units)

- PY197: Principles of Neuroscience
- **PY297:** Systems Neuroscience

One of the following:

- PY298: Advanced Neuroanatomy
- **PY300:** Hormones and Behavior
- PY300: Computational Neuro