

## Neuroscience BS Requirements (2021-22)

Course offerings are subject to change

Note that the requirements for the 21-22 catalog are different from past requirements. Check in your portal to see which catalog you are bound to.

### Lower Division Requirements

|               |  |    |  |
|---------------|--|----|--|
| Calculus:     | <input type="checkbox"/> MATH 11A (FWS) or MATH 19A (FWS)  | &  | <input type="checkbox"/> MATH 11B (FWS) or MATH 19B (FWS)  |
| General Chem: | <input type="checkbox"/> CHEM 1A: General Chemistry (FWS)  | &  | <input type="checkbox"/> CHEM 1B: General Chemistry (FWS) & <input type="checkbox"/> CHEM 1C: General Chemistry & (FWS)<br><input type="checkbox"/> CHEM 1N: General Chem Lab (FWS)                  |
| Biology       | <input type="checkbox"/> BIOL 20A: Cell and Molecular Bio (FWS)  | &  | <input type="checkbox"/> BIOE 20B: Development and Physiology (FWS) & <input type="checkbox"/> BIOL 20L: Experimental Bio Lab (FWS)<br>OR<br><input type="checkbox"/> BIOL 102J: Toxic RNA Lab I (F) |
| Organic Chem: | <input type="checkbox"/> CHEM 8A: Organic Chemistry & (FW)<br><input type="checkbox"/> CHEM 8L: Organic Chem Lab (FW)                  | &  | <input type="checkbox"/> CHEM 8B: Organic Chemistry (WS)   |
| Statistics:   | <input type="checkbox"/> STAT 5: Statistics (FWS)  | OR | <input type="checkbox"/> STAT 7: Stats for the Biological, Environmental, and Health Sciences & (FWS)<br><input type="checkbox"/> STAT 7L: Stats Lab (FWS)   |
| Physics:      | <input type="checkbox"/> PHYS 6A: Introductory Physics I & (FWS)<br><input type="checkbox"/> PHYS 6L: Introductory Physics I Lab (FWS) | &  | <input type="checkbox"/> PHYS 6C: Introductory Physics III (FS)  |

After passing the above qualification courses shaded green with a C or better, you can submit a [Petition to Declare](#). All qualification courses must be completed by the end of the 5th quarter and students must petition to declare by the 6th quarter deadline.

☐ Declared

### Upper Division Courses

Complete the major with the following:

#### CORE COURSES:

|   |
|---|
| <input type="checkbox"/> BIOL 105: Genetics (FWS)   |
| <input type="checkbox"/> BIOL 100: Biochemistry (WS) & <input type="checkbox"/> BIOL 101: Molecular Biology (FS)  |
| OR <input type="checkbox"/> BIOC 100A: Biochemistry & Molecular Bio (F) & <input type="checkbox"/> BIOC 100B: Biochemistry & MB (W) & <input type="checkbox"/> BIOC 100C: Biochemistry & MB (S) |
| <input type="checkbox"/> BIOL 101L: Molecular Biology Lab (FWS) OR <input type="checkbox"/> BIOL 102L: Toxic RNA Lab II (W)   |
| <input type="checkbox"/> BIOL 125: Introduction to Neuroscience (FW)  |
| <input type="checkbox"/> BIOL 126: Advanced Molecular Neuroscience (S)  |
| <input type="checkbox"/> BIOL 128: Developmental Neurobiology (S)   |

#### ELECTIVES: 3 UPPER DIVISION ELECTIVES (ONLY ONE OF WHICH MAY BE A 3-UNIT COURSE: BIOL 112, 116 OR 117)

- ☐ BIOC 100C: Biochemistry
- ☐ BIOE 131: Animal Physiology
- ☐ BIOE 131L: Animal Physiology Lab
- ☐ BIOL 110: Cell Biology
- ☐ BIOL 114: Cancer Cell Biology
- ☐ BIOL 115: Eukaryotic Molecular Biology
- ☐ BIOL 118: Principles of Human Genetics
- ☐ BME 110: Computational Biology Tools
- ☐ BME 130: Genomes
- ☐ BME 160: Research Programming for Biologists & Biochemists
- ☐ PHYS 180: Biophysics
- ☐ PSYC 121: Perception
- ☐ PSYC 123: Cognitive Neuroscience

#### LAB: LAB COURSE REQUIRED

|  |   |  |    |   |
|--|---|--|----|---|
| <input type="checkbox"/> BIOL 129L: Neurobiology Lab | & | <input type="checkbox"/> BIOL 129A: Advanced Topics in System Neuroscience | OR | <input type="checkbox"/> BIOL 129B: Advanced Topics in Developmental Neurobiology |
|--|---|--|----|---|

#### DISCIPLINARY COMMUNICATION & SENIOR EXIT REQUIREMENTS ARE SATISFIED BY COMPLETING 129L

☐ DC/SENIOR EXIT COMPLETE

