# 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:
- MATH 11A (FWS) or MATH 19A (FWS)
- MATH 11B (FWS) or MATH 19B (FWS)

### General Chem:
- CHEM 1A: General Chemistry (FWS)
- CHEM 1B: General Chemistry (FWS) &
- CHEM 1C: General Chemistry & (FWS)
- CHEM 1N: General Chem Lab (FWS)

### Biology
- BIOL 20A: Cell and Molecular Bio (FWS)
- BIOL 20B: Development and Physiology (FWS)
- BIOL 20L: Experimental Bio Lab (FWS)

### Organic Chem:
- CHEM 8A: Organic Chemistry & (FW)
- CHEM 8B: Organic Chemistry (WS)
- CHEM 8L: Organic Chem Lab (FW)

### Statistics:
- STAT 5: Statistics (FWS)
- STAT 7: Stats for the Biological, Environmental, and Health Sciences & (FWS)
- STAT 7L: Stats Lab (FWS)

### Physics:
- PHYS 6A: Introductory Physics I & (FWS)
- PHYS 6C: Introductory Physics III (FS)
- PHYS 6L: Introductory Physics I Lab (FWS)

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.

## Upper Division Courses

Complete the major with the following:

### CORE COURSES:
- BIOL 105: Genetics (FWS)
- BIOL 100: Biochemistry (WS)
- BIOL 101: Molecular Biology (FS)
- BIOL 102L: Toxic RNA Lab II (W)
- BIOL 125: Introduction to Neuroscience (FW)
- BIOL 126: Advanced Molecular Neuroscience (S)
- BIOL 128: Developmental Neurobiology (S)

### ELECTIVES: 1 UPPER DIVISION ELECTIVE
- BIOC 100C: Biochemistry
- BIOC 101: Molecular Biology (FS)
- BIOC 100: Biochemistry (WS)
- BIOC 100B: Biochemistry & MB (W)
- BIOC 100C: Biochemistry & MB (S)
- BIOC 101L: Molecular Biology Lab (FWS)
- BIOC 102L: Toxic RNA Lab II (W)
- BIOC 125: Introduction to Neuroscience (FW)
- BIOC 126: Advanced Molecular Neuroscience (S)
- BIOC 128: Developmental Neurobiology (S)
- 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
- BIOL 129L: Neurobiology Lab
- BIOL 129A: Advanced Topics in System Neuroscience
- BIOL 129B: Advanced Topics in Developmental Neurobiology

DISCIPLINARY COMMUNICATION & SENIOR EXIT REQUIREMENTS ARE SATISFIED BY COMPLETING 129L
- DC/SENIOR EXIT COMPLETE
Please refer to your 2021-22 UCSC General Catalog for more information or clarification