### Neuroscience BS Requirements

#### Lower Division Requirements

**Calculus:**
- MATH 16A or 11A or MATH 19A & MATH 16B or 11B or MATH 19B

**General Chem:**
- CHEM 3A: General Chemistry
- CHEM 3B & 3C: General Chemistry w/Lab
- CHEM 3D & 3E: General Chemistry w/Lab

**Biology:**
- BIOL 20A: Cell and Molecular Bio (FWS) & BIOE 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) OR STAT 7: Stats for the Biological, Environmental, and Health Sciences & (FWS)
- STAT 7L: Stats Lab (FWS)

**Physics:**
- PHYS 6A: Introductory Physics I & (FWS)
- PHYS 6B: Introductory Physics II (FWS) & PHYS 6C: Introductory Physics III (FW)

After passing the above qualification courses shaded green with a C or better, you can submit your request to declare your major via your my.ucsc.edu portal. 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 Requirements**

Complete the major with the following:

**CORE COURSES:**
- BIOL 105: Genetics (FWS)
- BIOL 100: Biochemistry
- BIOL 101: Molecular Biology
- BIOL 10L: Molecular Biology Lab (FWS)
- BIOL 125: Introduction to Neuroscience (FW)
- BIOL 126: Advanced Molecular Neuroscience
- BIOL 128: Developmental Neurobiology

**UPPER DIVISION ELECTIVES: CHOOSE AT LEAST 1**
- BIOL 131L: Animal Physiology w/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

**ADVANCED TOPICS COURSE: CHOOSE 1 BELOW**
- BIOL 129A: Advanced Topics in System Neuroscience
- BIOL 129B: Advanced Topics in Developmental Neurobiology
- BIOL 129C: Advanced Topics in Nervous System Disorders

**LAB:**
- BIOL 129L: Neurobiology Lab

**DISCIPLINARY COMMUNICATION & COMPREHENSIVE REQUIREMENTS ARE SATISFIED BY COMPLETING 129L**
- DC/COMPREHENSIVE REQUIREMENT COMPLETE

Please refer to your 2024-25 UCSC General Catalog for more information or clarification.