

Neuroscience BS Requirements

Lower Division Requirements

Calculus:	<input type="checkbox"/> MATH 16A or 11A or MATH 19A	&	<input type="checkbox"/> MATH 16B or 11B or MATH 19B
General Chem:	<input type="checkbox"/> CHEM 3A: General Chemistry <input type="checkbox"/> CHEM 3B&3BL: General Chemistry w/Lab <input type="checkbox"/> CHEM 3C&3CL: General Chemistry w/Lab	OR	<input type="checkbox"/> CHEM 4A&4AL: Advanced General Chemistry: Molecular Structure and Reactivity w/Lab <input type="checkbox"/> CHEM 4B&4BL: Advanced General Chemistry: Molecular Structure and Reactivity w/Lab
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)
Organic Chem:	<input type="checkbox"/> CHEM 8A: Organic Chemistry & (FW) <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) <input type="checkbox"/> STAT 7L: Stats Lab (FWS)
Physics:	<input type="checkbox"/> PHYS 6A: Introductory Physics I & (FWS) <input type="checkbox"/> PHYS 6L: Introductory Physics 1 Lab (FWS)	&	<input type="checkbox"/> PHYS 6B: Introductory Physics II (FWS) & <input type="checkbox"/> 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.

Declared

Upper Division Requirements

Complete the major with the following:

CORE COURSES:

- BIOL 105: Genetics (FWS)
- BIOL 100: Biochemistry
- BIOL 101: Molecular Biology
- BIOL 101L: Molecular Biology Lab (FWS) OR CUREs Lab: BIOL 102L: Toxic RNA Lab II /BIOL 107L: Synthetic Gene Regulation Lab/BIOL 122K: Phage Biology Lab (W)/CHEM 160K: Biochemistry Research Laboratory (W)/CHEM 161K: Chemical Biology Research Laboratory (W)
- BIOL 125: Introduction to Neuroscience (FW)
- BIOL 126: Advanced Molecular Neuroscience
- BIOL 128: Developmental Neurobiology

UPPER DIVISION ELECTIVES: CHOOSE AT LEAST 1

- BIOE 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: REQUIRED 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