

Neuroscience BS Requirements

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 3A: General Chemistry (FW)	&	<input type="checkbox"/> CHEM 3B & 3BL : General Chemistry (WS) & <input type="checkbox"/> CHEM 3C&3CL: General Chemistry (FS)
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:

<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"/> CUREs Lab: BIOL 102L: Toxic RNA Lab /BIOL 107L: Synthetic Gene Regulation Lab/BIOL 122K: Phage Biology Lab (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)	

* Note that you must apply to enroll in BIOC 100A and complete the entire series of one or the other; no mixing and matching

UPPER DIVISION ELECTIVES: CHOOSE AT LEAST 1

- BIOE 131/L: 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

LABS: REQUIRED LAB AND 1 ADVANCED TOPICS COURSE

<input type="checkbox"/> BIOL 129L: Neurobiology Lab	&	<input type="checkbox"/> BIOL 129A: Advanced Topics in System Neuroscience
		<input type="checkbox"/> BIOL 129B: Advanced Topics in Developmental Neurobiology
		<input type="checkbox"/> BIOL 129C: Advanced Topics in Nervous System Disorders

DISCIPLINARY COMMUNICATION & COMPREHENSIVE REQUIREMENTS ARE SATISFIED BY COMPLETING 129L

DC/COMPREHENSIVE REQUIREMENT COMPLETE

Please refer to your 2023-24 UCSC General Catalog for more information or clarification