

## Neuroscience BS Requirements

### Lower Division Requirements

Calculus:	<input type="checkbox"/> MATH 11A or 16A or MATH 19A	&	<input type="checkbox"/> MATH 11B or 16B 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 6B: Introductory Physics II (FWS) & <input type="checkbox"/> PHYS 6C: Introductory Physics III (FW) <input type="checkbox"/> PHYS 6N: Introductory Physics III Lab

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 <input type="checkbox"/> BIOL 101: Molecular Biology	OR	<input type="checkbox"/> 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)
<input type="checkbox"/> BIOL 101L: Molecular Biology Lab (FWS) <input type="checkbox"/> BIOL 125: Introduction to Neuroscience (FS) <input type="checkbox"/> BIOL 126: Advanced Molecular Neuroscience (W) <input type="checkbox"/> BIOL 128: Developmental Neurobiology (W)		

#### UPPER DIVISION ELECTIVES: CHOOSE AT LEAST 1

<input type="checkbox"/> BIOE 131/L: Animal Physiology w/Lab <input type="checkbox"/> BIOL 110: Cell Biology <input type="checkbox"/> BIOL 114: Cancer Cell Biology <input type="checkbox"/> BIOL 115: Eukaryotic Molecular Biology <input type="checkbox"/> BIOL 118: Principles of Human Genetics <input type="checkbox"/> BME 110: Computational Biology Tools <input type="checkbox"/> BME 130: Genomes <input type="checkbox"/> BME 160: Research Programming for Biologists & Biochemists <input type="checkbox"/> PHYS 180: Biophysics <input type="checkbox"/> PSYC 121: Perception <input type="checkbox"/> PSYC 123: Cognitive Neuroscience
---

#### ADVANCED TOPICS COURSE: CHOOSE 1 BELOW

<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
--

#### LAB: REQUIRED LAB

<input type="checkbox"/> BIOL 129L: Neurobiology Lab
--

#### DISCIPLINARY COMMUNICATION & COMPREHENSIVE REQUIREMENTS ARE SATISFIED BY COMPLETING 129L

<input type="checkbox"/> DC/COMPREHENSIVE REQUIREMENT COMPLETE
--

Please refer to the [UCSC General Catalog](#) for more information or clarification