

## 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 6M: Introductory Physics II Lab (FWS)
		&	<input type="checkbox"/> PHYS 6C: Introductory Physics III (FW) <input type="checkbox"/> PHYS 6N: Introductory Physics III Lab (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)
<b>OR</b>
<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