## Neuroscience BS Requirements

### Lower Division Requirements

<table>
<thead>
<tr>
<th>Calculus</th>
<th>MATH 11A (FW/S) or MATH 19A (FW/S)</th>
<th>&amp;</th>
<th>MATH 11B (FW/S) or MATH 19B (FW/S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chem</td>
<td>CHEM 3A: General Chemistry (FW)</td>
<td>&amp;</td>
<td>CHEM 3B &amp; 3BL: General Chemistry (WS) &amp;</td>
</tr>
<tr>
<td>Biology</td>
<td>BDI 20A: Cell and Molecular Bio (FW/S)</td>
<td>&amp;</td>
<td>BIDE 20B: Development and Physiology (FW/S)</td>
</tr>
<tr>
<td>Statistics</td>
<td>STAT 5: Statistics (FW/S)</td>
<td>OR</td>
<td>STAT 7: Stats for the Biological, Environmental, and Health Sciences (FW/S)</td>
</tr>
<tr>
<td>Physics</td>
<td>PHYS 1A: Introductory Physics I (FW/S)</td>
<td>&amp;</td>
<td>PHYS 1B: Introductory Physics II (FW/S)</td>
</tr>
</tbody>
</table>

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:

- BDI 105: Genetics (FW/S)
- BDI 100: Biochemistry (WS) & BDI 101: Molecular Biology (FS) OR
- BIOC 100A: Biochemistry & Molecular Bio (F) & BIOC 100B: Biochemistry & MB (WS) & BIOC 100C: Biochemistry & MB (S)
- BDI 101L: Molecular Biology Lab (FW/S) OR CUREs Lab: BDI 102L: Toxic RNA Lab/BDI 105L: Synthetic Gene Regulation Lab/BDI 122K: Phage Biology Lab (FW)
- BDI 125: Introduction to Neuroscience (FW/S)
- BDI 129: Advanced Molecular Neuroscience (S)
- BDI 12B: Developmental Neurobiology (S)

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

- BDI 110: Animal Physiology w/Lab
- BDI 110: Cell Biology
- BDI 114: Cancer Cell Biology
- BDI 11B: Eukaryotic Molecular Biology
- BDI 11B: Principles of Human Genetics
- BME 110: Computational Biology Tools
- BME 130: Genomics
- BME 140: Research Programming for Biologists & Biochemists
- PHYS 180: Biophysics
- PSYC 121: Perception
- PSYC 123: Cognitive Neuroscience

#### LABS: REQUIRED LAB AND 1 ADVANCED TOPICS COURSE

- BDI 129L: Neurobiology Lab & BDI 129A: Advanced Topics in System Neuroscience
- BDI 129B: Advanced Topics in Developmental Neurobiology
- BDI 129C: Advanced Topics in Nervous System Disorders

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

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