**NEUROSCIENCE TRACK**

Checklist for BIO Major Clearance

The Undergraduate Biology Office does clearances for Biology major and minor requirements. Students should obtain clearance for the major/minor prior to the "add" deadline of their last semester. Questions about University or Arts & Sciences requirements (i.e., DECs, Skills etc.) should be directed to the Academic and Pre-Professional Advising Center, E-2360 Melville Library (http://www.stonybrook.edu/aadvising/).

<table>
<thead>
<tr>
<th>Last Name</th>
<th>First Name</th>
<th>SBU ID#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Transfer Schools</th>
<th>Date of Most Recent Matriculation</th>
</tr>
</thead>
</table>

**SECTION A. BIOLOGY CORE**

All courses in Section A must be passed with a grade of C or higher. Section A and C Biology courses (BIO designator) are worth 3 credits except where noted in parenthesis immediately following course number.

- **Freshman Biology** *(Not required. Recommended for students with a math placement score less than 3. Counts towards the BIO Major).*
  - Bio Major Credits: BIO 150 The Living World
  - AP Waiver

- **Fundamentals of Biology** *(Required core courses)*
  - Bio Major Credits: BIO 201 Organisms to Ecosystems or transfer
  - TC
  - Bio Major Credits: BIO 202 Molecular and Cellular Biology or transfer
  - TC
  - Bio Major Credits: BIO 203 Cellular and Organ Physiology or transfer
  - TC
  - Bio Major Credits: BIO 204(2) Fundamentals of Scientific Inquiry in the Biological Sciences I or transfer
  - TC
  - Bio Major Credits: BIO 205(2) Fundamentals of Scientific Inquiry in the Biological Sciences II or transfer
  - TC

**SECTION B. COURSES IN RELATED FIELDS**

- **One year of General Chemistry**
  - CHE 123, 124 & 132*, or 129, 130 & 132*, or 131 & 132*, or 141 & 142*, or transfer

- **One year of General Chemistry Laboratory**
  - CHE 133 & 134, or 143 & 144, or transfer

- **One year of Organic Chemistry**
  - CHE 321 & CHE 322 or 326, or transfer

- **One semester of Organic Chemistry Laboratory**
  - CHE 327, or 383, or transfer

- **One year of Physics with Laboratory**
  - PHY 121/123 & 122/124*, or 125 & 126 & 127*, or 131/133 & 132/134*, or 141 & 142*, or transfer

- **One year of Calculus**
  - MAT 123 & 125 & 126*, or 131 & 132*, or 141 & 142*, or 171*, or AMS 151 & 161*, or level 8 or 9 on math placement examination or transfer

- **One semester of Statistics or Probability/Statistics**
  - AMS 110, or 310, or transfer

*"C or higher in at least one semester of required sequence"
**NEUROSCIENCE TRACK (cont.)**

**SECTION C. ADVANCED COURSES**

All courses in Section C must be passed with a grade of C or higher with the exception of 400-level courses for the Bio Major which must be passed with an S. Section C Biology courses (BIO designator) are worth 3 credits except where noted in parenthesis immediately following course number.

Students must take at least THREE (3) advanced lecture courses and ONE (1) advanced laboratory course in the Neuroscience Track PLUS TWO (2) advanced lecture courses and ONE (1) advanced laboratory course outside of the track. *Internship courses cannot be used to satisfy the advanced laboratory requirements.*

### AREA LECTURE and/or LABORATORY REQUIREMENTS:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Bio Major Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Principles of Neurobiology</td>
<td>BIO 334 or transfer</td>
</tr>
<tr>
<td>B</td>
<td>Mammalian Physiology</td>
<td>BIO 328 or transfer</td>
</tr>
<tr>
<td>C</td>
<td>Animal Physiology Laboratory</td>
<td>BIO 335 or transfer</td>
</tr>
<tr>
<td>D</td>
<td>Third Advanced Lecture in Track</td>
<td>BIO 317, 338, 339, BCP 401 or transfer</td>
</tr>
</tbody>
</table>

### BREADTH REQUIREMENT:

| Course 1: TWO (2) lecture or lecture/laboratory courses outside of track: | BIO 301, 310, 314, 315, 316, 318, 320, 325, 336, 340(4), 341(4), 343(4), 344(4), 348, 350, 351, 353, 354, 358, 359, 361, 362, 371(4), 380(4), 385, 386; MAR 301(4), 302, 366, 370, 371; CHE 346; AMS 333; ANP 325, 350, 391 (ANP 325, 350, and 391 qualify if taken in Madagascar) or transfer |
| Course 2: ONE (1) laboratory course outside of track: | BIO 311, 312, 319, 327, 340(4), 341(4), 343(4), 344(4), 352, 356(2), 364, 365(2), 367, 371(4), 380(4); MAR 301(4), 303, 305, 320(4), 380, 388(4) |
| Lab Course: | NOTE: Four (4) credits and at least two (2) semesters of independent biology research (BIO 486, BIO 487, BIO 489) with the same sponsor may replace one upper division laboratory course outside of track. |

### UPPER DIVISION WRITING REQUIREMENT

<table>
<thead>
<tr>
<th>Course:</th>
<th>Date:</th>
<th>Accepted by:</th>
</tr>
</thead>
</table>

### CREDITS

*See Bulletin for limits in use of research, readings and substitute electives.*

**Thirty-three (33) credits in SECTIONS A & C,** including specified substitute electives, completed with a grade of C or higher. *Internship credits cannot be used to satisfy this requirement.*

**For Transfer students:**

- **At least fifteen (15)** of the thirty-three (33) credits in SECTIONS A & C must be taken at Stony Brook in courses for majors at 200-level or higher.
- **Twelve (12)** of the fifteen (15) credits must be in BIO designator courses.
- **At least two (2) advanced biology laboratory experiences,** including one Area laboratory, must be taken at Stony Brook.

---

**Biology Majors Matriculating Fall 2011 and later**

**revised 4/20/2011**