**Neuroscience Cellular and Molecular** 2011-2012

<table>
<thead>
<tr>
<th>Department of Biology</th>
<th>CST Credit Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>255 Bio-Life Building  215-204-8851</td>
<td>123 minimum total credits</td>
</tr>
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<td>Chairperson: Dr. Allen Nicholson</td>
<td>90 minimum CST/CLA credits</td>
</tr>
<tr>
<td>Faculty Advisors: Dr. Edward Gruberg &amp; Dr. Joel Sheffield</td>
<td>45 minimum upper-level (2000+) CST/CLA credits</td>
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<tr>
<td><a href="http://www.temple.edu/neuroscience">www.temple.edu/neuroscience</a></td>
<td>Backtracking rule: Credit for some courses two or more levels below previously completed coursework cannot be used towards the degree.</td>
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</table>

**Name:**

**Recommended Sequence of Major Courses:**

- General Chemistry I: Chem 1031
- General Chemistry Lab I: Chem 1033
- Calculus I: Math 1041
- Fundamentals of Neuroscience: NSI 1051
- Introduction to Biology: Bio 1111
- General Chemistry II: Chem 1032
- General Chemistry Lab II: Chem 1034
- Calculus II: Math 1042

- Introduction to Biology: Bio 2112
- Organic Chemistry I: 2201
- Organic Chemistry Lab I: 2203
- Genetics: Bio 2296
- Systems Neuroscience: Bio 3352
- Organic Chemistry II: 2202
- Organic Chemistry Lab II: 2204
- Cell Structure and Function: Bio 3096
- Neuroscience Elective
- General Physics I: Physics 2021
- Cellular & Molecular Neuroscience: Bio 3358
- Neuroscience Elective
- General Physics II: Physics 2022
- Make an Appointment for a Graduation Review

**Note regarding pre-requisites:**

Bio 3352 will have the following prerequisites: Students must receive a C or better in each of the following courses: Math 1041, Math 1042, Bio 1111, and Bio 2112. Students must also receive a C- or better in Chem 2201.

Further Neuroscience courses will have the following prerequisites: Students must receive a B- or better in Bio 3352.

Please check all pre- and co-requisites for courses before registering.

**Placement:**

- Math:
- English:
- FL:

**Suggested Courses:**

<table>
<thead>
<tr>
<th>Suggested Courses</th>
<th>Revised Date: 12/12/12</th>
<th>Advisor Initials:</th>
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</table>

**Notes:**

- F= Fall Only  S= Spring Only
- * Refer to the Undergraduate Bulletin for elective course options. Two of the four required advanced neuroscience electives must be within CST.
- **See note above regarding pre-requisites.
- The Undergraduate Bulletin is the official source for major requirements: www.temple.edu/bulletin.

**TUID:**

**Notes:**
## University Requirements 2011-2012

### Appropriate University Curriculum:

<table>
<thead>
<tr>
<th>Gen Ed Traditional</th>
<th>Gen Ed 45+</th>
<th>Gen Ed-to-Gen Ed</th>
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</thead>
<tbody>
<tr>
<td>□ Analytical Reading &amp; Writing: Eng 0802</td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Mosaic I: Intel Heritage 0851</td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Mosaic II: Intel Heritage 0852</td>
<td></td>
<td></td>
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<tr>
<td>□ US Society</td>
<td></td>
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<tr>
<td>□ Human Behavior</td>
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<td>□ Arts</td>
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<tr>
<td>□ Diversity and Race</td>
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<td>□ Global/World Society</td>
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<tr>
<td>□ Quantitative Literacy *</td>
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<td>□ Science and Technology *</td>
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<tr>
<td>* May be waived based on major courses</td>
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</tbody>
</table>

### Bachelor of Arts (BA) Only

□ 2nd level of a Language 

### Gen Ed 45+ (45 or more transfer credits):

□ Analytical Reading & Writing: Eng 0802
□ Mosaic I or II: Intel Heritage 0851 or 0852
□ US Society
□ Human Behavior
□ Arts
□ Diversity and Race
□ Global/World Society
□ Quantitative Literacy **
□ Science and Technology **
** May be waived based on major courses

### Bachelor of Arts (BA) Only

□ 2nd level of a Language

### Gen Ed-to-Gen Ed:

Transfer students with a pre-approved Associate’s degree from an institution that has an established transfer agreement with Temple have satisfied their GenEd requirements, with the following exception for BA students:

**Bachelor of Arts (BA) Only**

□ 2nd level of a Language 

### Gen Ed online:

www.temple.edu/gened
www.temple.edu/vpus/transfer/TransferGenEd.htm

### University Core:

Students who were admitted as freshmen prior to fall 2008, or were admitted as transfers prior to fall 2010, follow the University Core curriculum instead of the Gen Ed curriculum.

### Undergraduate Bulletin:

The Undergraduate Bulletin is the official reference for University Requirements at:

www.temple.edu/bulletin.

### Note:

No more than two courses from the same department may be used to satisfy GenEd requirements. GenEd courses may not be used to satisfy major requirements.

Date: ___________ Date: ___________
Advisor: ___________ Advisor: ___________
Student: ___________ Student: ___________

Date: ___________ Date: ___________
Advisor: ___________ Advisor: ___________
Student: ___________ Student: ___________

Note: Students must complete at least 2 Writing-Intensive (WI) courses within the major, to be taken at Temple. These must be specific courses or course combinations within the major, or electives required for the major. These courses must be taken at Temple University. Writing-Intensive courses are numbered XX96, XX97, or XX98.