NEUROSCIENCE B.S.
CELLULAR AND MOLECULAR CONCENTRATION

Bachelor of Science - Neuroscience; Cellular and Molecular Concentration

College Humanities & Sciences

Degree Specific Credits: 76
Required Cumulative GPA: 2.0
Catalog Year: 2018-2019

General Education Requirements
Information regarding these requirements can be found in the General Education Section (http://catalog.umt.edu/academics/general-education-requirements) of the catalog.

Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology/Psychology Core Courses</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Other Required Courses</td>
<td>33-34</td>
<td></td>
</tr>
<tr>
<td>Additional Major Courses</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Intersection Courses</td>
<td>1-9</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>74-83</td>
<td></td>
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</tbody>
</table>

Biology/Psychology Core Courses

Rule: Must complete all of the following courses:

Note: BCH 110/BCH 111 may be substituted for BIOB 160N/BIOB 161N.
BIOH 458 satisfies the Upper Division Writing Requirement for the Major.

<table>
<thead>
<tr>
<th>Code &amp; Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 141N &amp; BIOL 142N Principles of Living Systems and Prncpls of Living Systems Lab</td>
<td>5</td>
</tr>
<tr>
<td>CHMY 143N &amp; CHMY 144N College Chemistry I and College Chemistry I Lab</td>
<td>5</td>
</tr>
<tr>
<td>CHMY 221 Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHMY 222 Organic Chemistry I Lab</td>
<td>2</td>
</tr>
<tr>
<td>CHMY 223 Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>M 162 Applied Calculus</td>
<td>4</td>
</tr>
<tr>
<td>PHSX 205N College Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHSX 206N College Physics I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHSX 207N College Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PHSX 208N College Physics II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>STAT 216 Introduction to Statistics</td>
<td>3-4</td>
</tr>
<tr>
<td>or PSYX 222 Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>35-36</td>
</tr>
</tbody>
</table>

Minimum Required Grade: C-

Other Required Courses

Rule: Must complete all of the following courses:

Note: PSYX 222 may be substituted for STAT 216.

<table>
<thead>
<tr>
<th>Code &amp; Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHMY 143N &amp; CHMY 144N College Chemistry I and College Chemistry I Lab</td>
<td>5</td>
</tr>
<tr>
<td>CHMY 221 Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHMY 222 Organic Chemistry I Lab</td>
<td>2</td>
</tr>
<tr>
<td>CHMY 223 Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>M 162 Applied Calculus</td>
<td>4</td>
</tr>
<tr>
<td>PHSX 205N College Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHSX 206N College Physics I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHSX 207N College Physics II</td>
<td>4</td>
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<tr>
<td>PHSX 208N College Physics II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>STAT 216 Introduction to Statistics</td>
<td>3-4</td>
</tr>
<tr>
<td>or PSYX 222 Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>35-36</td>
</tr>
</tbody>
</table>

Minimum Required Grade: C-

Additional Major Courses

Rule: Must complete all of the following courses:

<table>
<thead>
<tr>
<th>Code &amp; Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCH 480 Advanced Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>BCH 482 Advanced Biochemistry II</td>
<td>3</td>
</tr>
<tr>
<td>BIOB 425 Adv Cell &amp; Molecular Biology</td>
<td>3</td>
</tr>
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<td>Total Hours</td>
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</tr>
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</table>

Minimum Required Grade: C-

Rule: Choose at least 1 of the following Courses:

<table>
<thead>
<tr>
<th>Code &amp; Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOB 301 Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOB 365 Human AP I for Health Profsns</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 435 Comparative Animal Physiology</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Required Grade: C-

<table>
<thead>
<tr>
<th>Code &amp; Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOB 425 Adv Cell &amp; Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 435 Comparative Animal Physiology</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>3</td>
</tr>
</tbody>
</table>
Minimum Required Grade: C-

**Intersection Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOE 406</td>
<td>Behavior &amp; Evolution</td>
<td></td>
</tr>
<tr>
<td>DANC 345</td>
<td>Teaching for the Disabled</td>
<td></td>
</tr>
<tr>
<td>ECNS 491</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>GH 389E</td>
<td>Placebos: The Power of Words</td>
<td></td>
</tr>
<tr>
<td>HTH 430</td>
<td>Health and Mind/Body/Spirit</td>
<td></td>
</tr>
<tr>
<td>LIT 491</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>PSYX 233</td>
<td>Fund of Psychology of Aging</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours: 1-9

Minimum Required Grade: C-