MS in Neuroscience

Degree Requirements

The Graduate School requires a minimum of 30 credit hours for completion of the Master's degree. The Interdisciplinary Neuroscience Program requires a certain number of these courses to be at the 8000 level or above (excluding research problems and thesis research).

Required Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO_SC 8440</td>
<td>Integrative Neuroscience I</td>
<td>3</td>
</tr>
<tr>
<td>BIO_SC 8442</td>
<td>Integrative Neuroscience II</td>
<td>3</td>
</tr>
<tr>
<td>BIO_SC 8050</td>
<td>Professional Survival Skills</td>
<td>2</td>
</tr>
</tbody>
</table>

Scientific Ethics (1 course, approved by thesis committee):

- BIOCHM 8060 Ethical Conduct of Research
- BIO_SC 8060 Ethical Conduct of Research
- PSYCH 8910 Responsible Conduct of Research thru Engagement, Enactment and Empowerment NIH and other Federal Age
- V_PBIO 8641 Introduction to Research Ethics
- GRAD 9001 Topics in Graduate School

Select one from either group

Cellular/Molecular Courses

- BIOL_EN 7070 Bioelectricity
- MPP 7424 Medical Pharmacology
- MPP 9426 Transmembrane Signaling
- MPP 9432 Mammalian Membrane Physiology

System/Behavior Courses

- BIO_SC 7560 Sensory Physiology and Behavior
- BIO_SC 7590 Computational Neuroscience
- BIO_SC 7986 Neurology of Motor Systems
- PSYCH 8210 Functional Neuroscience
- PSYCH 9210 Psychopharmacology
- V_BSCI 9467 Neural Cardiorespiratory Control
- or MPP 9437 Neural Cardiorespiratory Control

Statistics course: select one

Possibilities include but are not limited to:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 7020</td>
<td>Statistical Methods in the Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>STAT 7070</td>
<td>Statistical Methods for Research</td>
<td>3</td>
</tr>
<tr>
<td>STAT 7410</td>
<td>Biostatistics and Clinical Trials</td>
<td>3</td>
</tr>
<tr>
<td>STAT 7540</td>
<td>Experimental Design</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 3010</td>
<td>Research Methods in Psychology I</td>
<td>3</td>
</tr>
</tbody>
</table>

Journal Club

- NEUROSCI 8187 Neuroscience Journal Club
- V_M_S 8021 Neurology Journal Review
- PTH_AS 8500 Seminar in Translational Neuroscience

Thesis Research

- NEUROSCI 8090 Thesis Research in Neuroscience (repeatable up to 12 hours)

Admission Criteria

Fall deadline: December 15

- Minimum TOEFL scores:
<table>
<thead>
<tr>
<th>Internet-based test (iBT)</th>
<th>Paper-based test (PBT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>600</td>
</tr>
</tbody>
</table>

- Minimum GRE scores:

<table>
<thead>
<tr>
<th>When did you take the GRE?</th>
<th>Verbal + Quantitative</th>
<th>Analytical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior to August 1, 2011</td>
<td>1200</td>
<td></td>
</tr>
<tr>
<td>On or After August 1, 2011</td>
<td>308</td>
<td></td>
</tr>
</tbody>
</table>

Neuroscience comprises a united field that integrates across many disciplines, and students from a variety of academic backgrounds are encouraged to apply to the Interdisciplinary Neuroscience Program (INP). U.S. residents and international applicants are strongly encouraged to apply.

Required Application Materials

To the Graduate School:
- All required Graduate School documents

To the INP Program:
- Departmental application
- 3 letters of recommendation
- GRE scores
- TOEFL (if applicable)