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

**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:

- STAT 7020 Statistical Methods in the Health Sciences
- STAT 7070 Statistical Methods for Research
- STAT 7410 Biostatistics and Clinical Trials
- STAT 7540 Experimental Design
- PSYCH 3010 Research Methods in Psychology I

**Journal Club**

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

**Thesis Research**

- NEUROSCI 9090 Thesis Research in Neuroscience (repeatable up to 12 hours)

Admission Criteria

Fall deadline: December 15

- Minimum TOEFL scores:
  - Internet-based test (IBT) 100
  - Paper-based test (PBT) 600

- Minimum GRE scores:
  - Prior to August 1, 2011 Verbal + Quantitative 1200
  - On or After August 1, 2011 308

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)