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 Name</th>
<th>Credits</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):**

- Possibilities include but are not limited to:
  - BIOCHM 8060 Ethical Conduct of Research
  - BIO_SC 8060 Ethical Conduct of Research
  - PSYCH 8910 Responsible Conduct of Research
  - MPP 8415 Responsible Conduct of Research thru Engagement, Enactment and Empowerment NIH and other Federal Age

**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:
  - STAT 7020 Statistical Methods in the Health Sciences 3
  - STAT 7070 Statistical Methods for Research 3
  - STAT 7410 Biostatistics and Clinical Trials 3
  - STAT 7540 Experimental Design 3
  - PSYCH 3010 Research Methods in Psychology I 3

**Journal Club**

- NEUROSCI 8187 Neuroscience Journal Club 1
- V_M_S 8021 Neurology Journal Review 1
- PTH_AS 8500 Seminar in Translational Neuroscience 1-5

**Thesis Research**

- NEUROSCI 9090 Thesis Research in Neuroscience (repeatable up to 12 hours) 1-6

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**Admission Criteria**

Fall deadline: December 15

**Minimum TOEFL scores:**

<table>
<thead>
<tr>
<th>Internet-based test (IBT)</th>
<th>Paper-based test (PBT)</th>
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<tbody>
<tr>
<td>100</td>
<td>600</td>
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</tbody>
</table>

**Minimum GRE scores:**

When did you take the GRE?

<table>
<thead>
<tr>
<th>Verbal + Quantitative</th>
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<tr>
<td>Prior to August 1, 2011</td>
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<tr>
<td>On or After August 1, 2011</td>
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</table>

- Bachelor's degree or its equivalent

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)