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</th>
<th>Title</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>
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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
- MPP 8415    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

- 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 8909 Thesis Research in Neuroscience (repeatable up to 12 hours)

Admission Criteria

Fall deadline: December 15

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

- Minimum GRE scores:
  - When did you take the GRE?
    - Verbal + Quantitative
      - Prior to August 1, 2011: 1200
      - On or After August 1, 2011: 308

- Bachelor's degree or its equivalent

Neuroscience comprises a unified 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)