

# PhD in Neuroscience

## Degree Requirements

The Graduate School requires a minimum of 72 credit hours for completion of the Doctoral 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

BIO_SC 8440	Integrative Neuroscience I	3
BIO_SC 8442	Integrative Neuroscience II	3
BIO_SC 8050	Professional Survival Skills	2

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	
V_PBIO 8641	Introduction to Research Ethics	
GRAD 9001	Topics in Graduate School	

### Cellular/Molecular Courses: select one

BIOL_EN 7070	Bioelectricity	3
MPP 7424	Medical Pharmacology	4
MPP 9426	Transmembrane Signaling	4

### System/Behavior Courses: select one

BIO_SC 7560	Sensory Physiology and Behavior	3
BIO_SC 7590	Computational Neuroscience	4
BIO_SC 7986	Neurology of Motor Systems	3
PSYCH 8210	Functional Neuroscience	3
PSYCH 9210	Psychopharmacology	3
V_BSCI 9467	Neural Cardiorespiratory Control	3
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

### Seminars

Neuroscience Seminar Course		2
Neuroscience Journal Club: examples include		2
BIO_SC 8187	Seminar in Areas of Specialization	
NEUROSCI 8187	Neuroscience Journal Club	
PTH_AS 8500	Seminar in Translational Neuroscience	

### Rotation and Thesis research

NEUROSCI 9090	Thesis Research in Neuroscience (repeatable up to 28 hours)	1-6
NEUROSCI 8090	Rotation Research in Neuroscience	

## Admission Criteria

Fall deadline: December 15

- Minimum TOEFL scores:

Internet-based test (iBT)	Paper-based test (PBT)
100	600

- 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
- Departmental application
- 3 letters of recommendation
- GRE scores (optional)
- TOEFL (if applicable)