

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

- Minimum GRE scores:

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

- 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)