# **NEUROSCIENCE, PHD**

## REQUIREMENTS

# MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/ #policiesandrequirementstext), in addition to the program requirements listed below.

## MAJOR REQUIREMENTS MODE OF INSTRUCTION

Face to Face	Evening/ Weekend	Online	Hybrid	Accelerated
Yes	No	No	No	No

#### Mode of Instruction Definitions

Accelerated: Accelerated programs are offered at a fast pace that condenses the time to completion. Students typically take enough credits aimed at completing the program in a year or two.

**Evening/Weekend:** Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

Face-to-Face: Courses typically meet during weekdays on the UW-Madison Campus.

Hybrid: These programs combine face-to-face and online learning formats. Contact the program for more specific information.

Online: These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

## CURRICULAR REQUIREMENTS

#### **Requirement Detail**

ne qui entent	- D Ctuli
Minimum Credit Requirement	51 credits
Minimum Residence Credit Requirement	32 credits
Minimum Graduate Coursework Requirement	26 credits must be graduate-level coursework. Refer to the Graduate School: Minimum Graduate Coursework (50%) Requirement policy: https://policy.wisc.edu/library/ UW-1244 (https://policy.wisc.edu/library/UW-1244/).
Overall Graduate GPA Requirement	3.00 GPA required. Refer to the Graduate School: Grade Point Average (GPA) Requirement policy: https:// policy.wisc.edu/library/UW-1203 (https://policy.wisc.edu/ library/UW-1203/).
Other Grade	n/a

Requirements

Assessments Candidates must meet with their advisory committee once and per semester until they become a dissertator and then Examinations once per year thereafter.

> The preliminary examination consists of two papers: a dissertation proposal, and a critical research paper unrelated to the proposal. The preliminary examination should be completed by the end of the second summer of graduate study. Students who fail one or both parts of the preliminary examination may retake the examination within two months. Failure to pass the examination the second time will result in dismissal from the program.

The final dissertation must be submitted to the advisory committee and an oral defense of the thesis must be given. The thesis defense consists of a public presentation of the thesis followed by a closed meeting with the advisory committee. Deposit of the doctoral dissertation in the Graduate School is required.

Language No language requirements.

#### Requirements

Graduate Completion of a doctoral minor or graduate/professional School certificate is not required of students in the NTP doctoral Breadth program. Requirements

### **REQUIRED COURSES**

Code	Title	Credits
Core Courses		10
NTP/ NEURODPT 610	Cellular and Molecular Neuroscience	
NTP/NEURODPT/ PSYCH 611	Systems Neuroscience	
NTP 700	Professional Development for Biomedical Graduate Students	
NTP 701	Experimental Design and Statistical Methodology	
One Mid-level Mole	cular/Cellular/Developmental	
Neuroscience Cours	se	
B M E/ MED PHYS/ PHMCOL- M/PHYSICS/ RADIOL 619	Microscopy of Life	
NTP/ NEURODPT 629	Molecular and Cellular Mechanisms of Memory	
NTP 735		
NTP 670		
NTP 675	Special Topics	
NTP/NEURODPT/ ZOOLOGY 765	Developmental Neuroscience	
PHMCOL-M 781	Molecular and Cellular Principles in Pharmacology	
ZOOLOGY 604	Computer-based Gene and Disease/Disorder Research Lab	
One Mid-level Syste Course	ems/Behavioral Neuroscience	

1

BN	1 E 601	Special Topics in Biomedical Engineering		
CS	&D 850	Hearing Science I: Basic Acoustics and Psychoacoustics		
	MP SCI/B M I/ YCH 841	Computational Cognitive Science		
KIN	IES 713	Neural Basis of Normal and Pathological Movement		
KIN	IES 721	Neural Basis for Movement		
KIN	IES 861	Principles of Motor Control and Learning		
NT	P 677	Basic Sleep Mechanisms and Sleep Disorders: from Neurobiology to Sleep Medicine		
NT	P 675	Special Topics		
NT ME	P/ D PHYS 651	Methods for Neuroimaging Research		
PS	YCH 711	Current Topics in Psychology <sup>1</sup>		
PS	YCH 733	Perceptual and Cognitive Sciences <sup>2</sup>		
PS	YCH 954	Seminar-Physiological Psychology		
PS	YCH 918	Seminar-General Psychology		
Seminar		1	0	
NT	P 900	Neuroscience Seminar: Current Topics in Neurobiology		
Students in our program are expected to be enrolled in NTP 900 every Fall/Spring semester.				
Resea	arch Credits			
NT	P 990	Research and Thesis		
NT stu for mir tim	P 990 every Fal dents enroll in N the appropriate nimum required o e student status			
as rec		ses or addtional research credits he advisory committee to meet ements.		
Total Credits			1+	

<sup>1</sup> PSYCH 711 is a special topics course. The following topics under this course listing are approved to take and will count as a midlevel:

- Cognitive Neuroscience of Attention and Memory
- Introduction to Neural Network Modeling of Cognition

<sup>2</sup> Two PSYCH 733 courses (8 weeks each) must be taken to meet the Mid-level Systems/Behavioral Neuroscience requirement. The following course topics are approved:

- Cognitive Neuroscience of Reading and Dyslexia
- Knotty Problems in Psycholinguistics
- <sup>3</sup> See "Credits Per Term Allowed" policy (p. ) for further information on full-time registration.