NEUROSCIENCE, PH.D.

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

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

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					
Minimum Credit Requirement	51 credits				
Minimum Residence Credit Requirement	32 credits				
Minimum Graduate Coursework Requirement	26 credits must be graduate-level coursework. Details can be found in the Graduate School's 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. This program follows the Graduate School's policy: https://policy.wisc.edu/library/UW-1203 (https://policy.wisc.edu/library/UW-1203/).				

Other Grade n/a Requirements

and

Assessments Candidates must meet with their advisory committee once 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 Requirements No language requirements.

Graduate

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

program.

Requirements

ZOOLOGY 765

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 Molecular/Cellular/Developmental **Neuroscience Course**

BIOCHEM/ PHMCOL-M/ ZOOLOGY 630	Cellular Signal Transduction Mechanisms
B M E/ MED PHYS/ PHMCOL- M/PHYSICS/ RADIOL 619	Microscopy of Life
NTP/ NEURODPT 629	Molecular and Cellular Mechanisms of Memory
NTP/ NEUROL 735	Neurobiology of Disease
NTP 670	Stem Cells and the Central Nervous System
NTP 675	Special Topics
NTP/NEURODPT/	Developmental Neuroscience

	PHMCOL-M 781	Molecular and Cellular Principles in Pharmacology	
	ZOOLOGY 604	Computer-based Gene and Disease/Disorder Research Lab	
0	ne Mid-level Syste	ems/Behavioral Neuroscience	
C	ourse		
	B M E 601	Special Topics in Biomedical Engineering	
	CS&D 850	Hearing Science I: Basic Acoustics and Psychoacoustics	
	COMP SCI/B M I/ PSYCH 841	Computational Cognitive Science	
	KINES 713	Neural Basis of Normal and Pathological Movement	
	KINES 721	Neural Basis for Movement	
	KINES 861	Principles of Motor Control and Learning	
	NTP 677	Basic Sleep Mechanisms and Sleep Disorders: from Neurobiology to Sleep Medicine	
	NTP 675	Special Topics	
	NTP/ MED PHYS 651	Methods for Neuroimaging Research	
	PSYCH 711	Current Topics in Psychology ¹	
	PSYCH 733	Perceptual and Cognitive Sciences ²	
	PSYCH 954	Seminar-Physiological Psychology	
	PSYCH 918	Seminar-General Psychology	
Seminar			10
	NTP 900	Neuroscience Seminar: Current	

Research Credits

NTP 990 Research and Thesis

NTP 900 every Fall/Spring semester.

Students in our program are expected to be enrolled in NTP 990 every Fall/Spring/Summer semester. When students enroll in NTP 990, they should plan to enroll for the appropriate number of credits to reach the minimum required credits each semester to have full-time student status. ³

Topics in Neurobiology
Students in our program are expected to be enrolled in

Other advanced courses or additional research credits as recommended by the advisory committee to meet minimum credit requirements.

Total Credits 51+

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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

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- *Two PSYCH 733 courses (8 weeks each) must be taken to meet the Midlevel Systems/Behavioral Neuroscience requirement. The following course topics are approved:
 - Cognitive Neuroscience of Reading and Dyslexia
 - Knotty Problems in Psycholinguistics

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See "Credits Per Term Allowed" policy (http://guide.wisc.edu/graduate/medicine-public-health-school-wide/neuroscience-phd/#policiestext) for further information on full-time registration.