NEUROSCIENCE, M.S.

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

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<tr>
<th>Mode of Instruction</th>
<th>Face to Face</th>
<th>Evening/Weekend</th>
<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
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<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
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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

**Core Courses**

- 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
  - BME/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/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 Systems/Behavioral Neuroscience Course**

- BME 601: Special Topics in Biomedical Engineering
- CS&D 850: Hearing Science I: Basic Acoustics and Psychoacoustics
- COMP SCI/BM 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

Other Grade Requirements

Assessments and Examinations

Submit a manuscript suitable for publication or the equivalent of part two of the preliminary exam to their advisory committee for approval. Approval should occur once the student has presented either option at their advisory committee meeting.

Language Requirements

No language requirements.

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/).
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
NTP 900  Neuroscience Seminar: Current Topics in Neurobiology

Students in our program are expected to be enrolled in NTP 900 every Fall/Spring semester.

Research Credits
NTP 990  Research and Thesis

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

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

Total Credits  30+

¹ 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

² *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

³ See “Credits Per Term Allowed” policy (http://guide.wisc.edu/graduate/medicine-public-health-school-wide/neuroscience-phd/#policies) for further information on full-time registration.