In order to declare the Neuroscience Undergraduate Program is a selective admissions major. All students must complete Neuro 1100(H), Psych 3313 and Neuro 3000 with grades of ‘B’ or higher and earn a minimum 3.0 cumulative GPA.

The requirements for the 36 semester hour (12 classes) neuroscience major are distributed across four categories: Core, Data Analysis, Specialization, and Breadth.

I. Professional Survey
Take the course below
- **Neuro 1100H** Neuroscience Honors Survey
  1 hr | Au, Sp | (Pre-req: Full or Pre-Majors Only)

II. Core Requirements
Take all 4 of the courses below
Pre-major students must complete Neuro 1100H, Psych 3313 and Neuro 3000 with grades of ‘B’ or higher in both classes and earn a minimum 3.0 cumulative GPA.

- **Psych 3313** Introduction to Behavioral Neuroscience
  3 hrs | Au, Sp, Su | (Pre-req: Psych 1100)

- **Neuro 3000** Introduction to Molecular/Cellular Neuroscience
  3 hrs | Au, Sp | (Pre-req: Bio 1113 and Pre-Major)

- **Psych 3513** Introduction to Cognitive Neuroscience
  3 hrs | Au, Sp | (Pre-req: Psych 1100)

- **Neuro 3050** Structure & Function of the Nervous System
  3 hrs | Au, Sp | (Pre-req: Bio 1113 & Neuro 3000)

V. Data Analysis Requirement
Take 1 of the 4 courses below

- **Psych 2220** Introduction to Data Analysis in Psychology
  3 hrs | Au, Sp, Su | (Pre-req: Psych 1100 & Math 1140)

- **Stats 2480** Statistics for Life Sciences
  3 hrs | Sp | (Pre-req: Math 1151)

- **Stats 2450** Introduction to Statistical Analysis
  3 hrs | Au, Sp | (Pre-req: Math 1151)

III. Specialization Requirements
Choose at least 5 specialization courses from the options below.

- **Neuro 4550** Autism Spectrum Disorder & Neurodev Disorders
  3 hrs | Au | (Pre-req: Neuro 3000)

- **Neuro 4425** Neurotrauma: TBI, Stroke, & Spinal Cord Injury
  3 hrs | Sp | (Pre-req: Neuro 3000)

- **Psych 4501** Advanced Behavioral Neuroscience
  3 hrs | Au, Sp | (Pre-req: Psych 3313 & Neuro 3000)

- **Neuro 4100** Basic & Clinical Foundations of Neuro Disease
  3 hrs | Au | (Pre-req: Neuro 3000)

- **Psych 4644** Hormones & Behavior
  3 hrs | Au, Sp | (Pre-req: Psych 3313 & Neuro 3000)

  Not Open to Students With Credit For Neuro 5644

- **Psych 5613(H)** Biological Psychiatry
  3 hrs | Sp | (Pre-req: Psych 3313 & Neuro 3000)

- **Psych 5602** Behavioral Genetics
  3 hrs | Sp | (Pre-req: Psych 3313 & Neuro 3000)

- **Psych 5603** Stem Cells and the Brain
  3 hrs | Au | (Pre-req: Psych 3313 & Neuro 3000)

- **Psych 5604** Sex Differences in the Brain and Behavior
  3 hrs | Au | (Pre-req: Psych 3313 & Neuro 3000)

- **Psych 5622** The Development of Brain and Behavior
  3 hrs | Au | (Pre-req: Psych 3313 & Neuro 3000)

- **Psych 5898** Seminar in Behavioral Neuroscience
  3 hrs | Sp | (Pre-req: Psych 4501)

- **Neuro 4623** Biological Clocks & Rhythms
  3 hrs | Sp | (Pre-req: Neuro 3000)

- **EEOB 4550** Neurobiology of Behavior
  3 hrs | Au | (Pre-req: 2 courses in Bio)

- **Psych 4305** Intro To Psychopharmacology
  3 hrs | Sp | (Pre-req: Permission of Instructor)

  Not Open to Students With Credit For Phar 4440 or BioPharm 5824

- **Biophrm 5824** Pharmacology of the Nervous System
  3 hrs | Au, Sp | (Pre-req: Permission of Instructor)

  Not Open to Students With Credit For Phar 4440 or Psych 4305

- **Biochem 4511** Intro to Biological Chemistry
  4 hrs | Au, Sp, Su | (Pre-req: Chem 2510 & Bio 1113)

- **MolGen 4500** General Genetics
  3 hrs | Au, Sp, Su | (Pre-req: Bio 1113 & 3 hrs Bio)

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Declaratio n Requirements
In order to declare the pre-major, students must meet with a Neuroscience Advisor to discuss the requirements. To set up an appointment:

1. Stop by room 10 Townshend Hall
2. Give us a call at (614)-292-8512
3. E-mail us at NeuroAdvising@osu.edu
4. Schedule an appointment [link](https://neurosciencemajor.osu.edu/advising/declare)

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Contact Us
Neuroscience Undergraduate Program
College of Medicine & College of Arts and Sciences
10 Townshend Hall
1885 Neil Avenue Mall
Columbus, OH 43210
Phone: (614) 292-8512
[link](http://neurosciencemajor.osu.edu)

Form Last Updated SP23
• Neuro 3025 History of Neuroscience 3hrs | Sp | (Pre-reqs: Psych 3313 & Neuro 3000)
• Neuro 4850 Contemporary Topics in Neuroscience 3hrs | Sp | (Pre-reqs: Psych 3313 & Neuro 3000)
• Neuro 3010 Neuropsychology 3hrs | Au | (Pre-reqs: Neuro 3000 or Neuro 3050)
• Neuro 3305 Neuropharmacology 3hrs | Sp | (Pre-reqs: Neuro 3000)
• Neuro 4050H Neurogenetics 3hrs | Au | (Pre-reqs: Neuro 3000)
• Neuro 4640 Neuronal Signal Transduction 3hrs | Sp | (Pre-reqs: Neuro 3000)
• Neuro 5790H Developmental Neuroscience 3hrs | Sp | (Pre-reqs: Neuro 3000 & 3050 & Jr. or Sr.)
• Chem 5230 Neurotransmitter Chemistry 3hrs | Sp | (Pre-reqs: Chem 2540 & 2520)
• Ling 3701 Language and the Mind 3hrs | Au, Sp | (Pre-reqs: Psych 1100)
• Psych/CSE/Ling/Philos 5612 Introduction to Cognitive Science 3hrs | Au | (Pre-reqs: 12hrs in Psych/CSE/Ling/Philos)
• Psych 5089 Cognitive Aging, Neurodegen, & Neuroplasticity 3hrs | Sp | (Pre-reqs: Psych 3313 & Neuro 3000)
• Psych 5614 Cognitive Neuroscience 3hrs | Sp | (Pre-reqs: Psych 3313 & 3000)
• Psych 5618 Intro to Computational Cognitive Neuroscience 3hrs | Sp | (Pre-reqs: Psych 3313 & Neuro 3000)
• Psych 5628 Developmental Cognitive Neuroscience 3hrs | Au | (Pre-reqs: Psych 3313 & 3000)
• SHS 5760 Neurology of Speech and Hearing Mechanisms 3hrs | Au, Sp | (Pre-reqs: Psych 3313 & 3000)
• Psych 3321 Quantitative and Statistical Methods in Psychology 3hrs | Au, Sp | (Pre-req: 8 or higher in 2220)
• Math 4350 Quantitative Neuroscience 3hrs | Sp | (Pre-req: Math 1152)
• Psych 5608 Intro to Mathematical Psychology 3hrs | Au | (Pre-reqs: Psych 3321, 3313 & Neuro 3000)
• CSE 5052 Survey of Artificial Intelligence for Non-Majors 3hrs | Au | (Pre-reqs: CSE Programming & Neuro 3000)
• CSE 5526 Introduction to Neural Networks 3hrs | Au | (Pre-req: CSE 3521)
• Econ 5870 Neuroeconomics and Decision Neuroscience 3hrs | Sp | (Pre-req: Psych 3313 & 3000).
• Neuro 4998/3193 Undergraduate Research & Individual Studies
  Pre-approval required.
  Up to 3 credit hours of any combination of Undergraduate Research (4998) and Individual Studies (3193) can be applied to the breadth requirement

Honors Requirements
Must take at least one honors or graduate level course. Approved courses can be found here: http://neurosciencemajor.osu.edu/honors

Important information about the Neuroscience Major

1. All Students must meet the following requirements to declare the neuroscience major:
   • First, meet with an advisor to officially be declared as a pre-neuroscience major.
   • Complete 24 total semester credit hours
   • At least 12 of those semester credit hours must be from graded OSU coursework
   • An overall GPA greater than or equal to 3.0
   • Earn at least a “B+” in Psych 3313, Neuro 3000, and Neuros 1100H

2. Thirty-three (36) semester credits in approved Neuroscience coursework.

3. Honors students must take at least one honors or graduate level course. Approved courses can be found here:
   http://neurosciencemajor.osu.edu/honors

4. Honors students must complete the Pre-Major Requirements

5. For courses to apply toward the major, you must earn at least a “C+”.

6. At least half of the major’s curriculum must be completed at Ohio State.

7. Majors will follow the Bachelor of Science curriculum for Legacy GE and other degree requirements.

8. Students are encouraged to focus on completion of core requirements before beginning their specialization coursework.

9. To earn your degree you will need an overall GPA of at least a 2.0.

10. Research experience is also strongly encouraged for students considering graduate and professional training. You may enroll in a variety of 4998 opportunities.
    http://neurosciencemajor.osu.edu/4998

11. Up to 3 credit hours of experiential coursework can be applied to the breadth requirements of the major. This experiential coursework can be from any combination of the following classes: Undergraduate Research (4998), Internships (3191), and Individual Studies (3193). 3 Credits of these courses can be combined to count as one course toward the Breadth Requirements. Pre-approval from your neuroscience major advisor is required.

12. Students planning to graduate “With Honors in Arts and Sciences” should visit our website for information on Honors Contract requirements for neuroscience majors.
    http://neurosciencemajor.osu.edu/honors

13. Honors Requirements: All Honors students must take at least one Neuro Advisor Approved graduate-level course to fulfill their Honors requirement. Honors students must speak with their advisor to select a course. The chosen course to fulfill the requirement can count as EITHER one Breadth course or one Specialization course. The approved graduate-level courses can be found at this link:
    https://NeuroscienceMajor.osu.edu/honors

Honors Requirements
All Honors students must take at least ONE Neuro Advisor Approved graduate-level course to fulfill their Honors requirement. Honors students must speak with their advisor to select a course. The chosen course to fulfill the requirement can count as EITHER one Breadth course or one Specialization course. The approved graduate-level courses can be found at this link:
https://NeuroscienceMajor.osu.edu/honors