NEUROSCIENCE SECOND MAJOR FOR ISP STUDENTS

Students must also complete the Undergraduate Registration Requirement (https://catalogs.northwestern.edu/undergraduate/requirements-policies/undergraduate-registration-requirement/) and the degree requirements of their home school.

NOTE: This Catalog describes Weinberg College BA requirements that pertain to students who matriculated at Northwestern after spring quarter 2023. Refer to the Archives (https://catalogs.northwestern.edu/archives/) if you are following BA requirements described in the 2018-2019 through 2022-2023 editions.

The Integrated Science Program is a highly selective BA program in Weinberg College. It is possible to complete a double major in ISP and Neuroscience with an Allied Field of Computation and Systems Modeling by completing the courses below in addition to ISP requirements. Note that NEUROSCI 311-0 in ISP is required to be completed by students doing the second major in neuroscience; students completing both majors may not substitute INTOG_SCI 398-0 or another course for a neuroscience course in the ISP curriculum. ISP students should take NEUROSCI 311-0 in their sophomore or junior year.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>Required course:</td>
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<tr>
<td>NEUROSCI 206-0</td>
<td>Systems and Behavioral Neuroscience</td>
</tr>
</tbody>
</table>

2 Neuroscience Electives with a primary focus on human behavior and the human brain (Group A Elective), chosen from:

- COG_SCI 210-0 | Language and the Brain
- CSD 303-0 | Brain and Cognition
- or PSYCH 327-0 | Brain and Cognition
- CSD 310-0 | Biological Foundations of Speech and Music
- PSYCH 110-0 | Introduction to Psychology
- PSYCH 228-0 | Cognitive Psychology
- PSYCH 244-0 | Developmental Psychology
- PSYCH 248-0 | Health Psychology
- PSYCH 324-0 | Perception
- PSYCH 328-0 | Brain Damage and the Mind
- PSYCH 330-0 | Special Topics in Cognition/Neuroscience (Brain and Language)
- PSYCH 391-0 | Advanced Seminar in Cognition or Neuroscience (Psychoneuroimmunology)
- PSYCH 392-0 | Advanced Seminar in Psychology (With the approval of the director of undergraduate studies)

2 Neuroscience Electives with a primary focus on molecular, cellular, and systems-level mechanisms of brain function (Group B Elective), chosen from:

- NEUROSCI 303-0 | Molecular Mechanisms of Neuropsychopharmacology
- NEUROSCI 304-0 | Developmental Neurobiology
- NEUROSCI 320-0 | Animal Behavior
- NEUROSCI 324-0 | Neurobiology of Biological Clocks and Sleep
- NEUROSCI 325-0 | Neurobiology of Stress, Adversity, and Resilience
- NEUROSCI 326-0 | Neurobiology of Learning and Memory
- NEUROSCI 350-0 | Advanced Neurophysiology Laboratory
- NEUROSCI 355-0 | Neurogenetics of Behavior Laboratory
- NEUROSCI 357-0 | Neuroanatomy Laboratory
- NEUROSCI 360-0 | Neuroscience of Brain Disorders
- NEUROSCI 365-0 | Neurobiology of Prediction
- NEUROSCI 370-0 | Genetic and Circuit Analysis of Motivated Behavior
- NEUROSCI 377-0 | Neurobiology of Sensation and Perception
- NEUROSCI 390-0 | Topics in Neuroscience (With approval of the director of undergraduate studies)
- BIOL_SCI 303-0 | Molecular Neurobiology
- BIOL_SCI 307-0 | Brain Structure, Function, and Evolution
- ES_APPM 370-1 | Introduction to Computational Neuroscience

Honors in Neuroscience

Majors with strong academic records and significant research accomplishments may pursue honors in neuroscience. Interested students should contact the director of undergraduate studies by email no later than the beginning of fall quarter senior year. Considerations for honors include GPA and the quality of a written thesis based on the student’s research. Students also must complete at least 1 quarter of NEUROSCI 399-0 Independent Study in Neuroscience and NEUROSCI 398-0 Senior Thesis Seminar in winter of senior year. Students meeting department requirements may be recommended to the college for graduation with honors. For more information consult the department website (https://www.neurobiology.northwestern.edu/undergraduate/honors-in-the-major/) and see Honors in the Major (https://catalogs.northwestern.edu/undergraduate/arts-sciences/#academicoptionstext).