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.

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 is required to be completed by students doing the second major in neuroscience; students completing both majors may not substitute INTG_SCI 398-0 or another course for a neuroscience course in the ISP curriculum.

Course  | Title
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**2 required courses:**
BIOL_SCI 217-0  | Physiology
NEUROSCI 206-0  | Systems and Behavioral Neuroscience
**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 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 326-0  | Neurobiology of Learning and Memory
NEUROSCI 350-0  | Advanced Neurophysiology Laboratory
NEUROSCI 355-0  | Neurogenetics of Behavior Laboratory
NEUROSCI 360-0  | Neuroscience of Brain Disorders
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 305-0  | Neurobiology Laboratory
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, followed by 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 (http://www.neurobiology.northwestern.edu) and see Honors in the Major (https://catalogs.northwestern.edu/undergraduate/arts-sciences/#academicoptiontext).