Neuroscience BS
Interdisciplinary major offered by the Department of Biology and the Department of Psychological & Brain Sciences, in cooperation with the Iowa Neuroscience Institute

Required Courses

Note: PSY 1001 Elementary Psychology is not required for this major, but it may be taken before PSY 2701 Intro to Behavioral Neuroscience.

Biology – all of these
- BIOL 1411 Foundations of Biology
- BIOL 2512 Fundamental Genetics
- BIOL 3253 Neurobiology (fall only)
- BIOL 3653 Integrative Neurophysiology (spring only)
- BIOL 3753 Developmental Neurobiology (spring only)

Chemistry – both of these
- CHEM 1110 Principles of Chemistry I
- CHEM 1120 Principles of Chemistry II

Biochemistry – Choose one course, or two-course sequence
- BIOC 3110 Biochemistry OR
- BIOC 3120 Biochem & Molecular Biology I and BIOC 3130 Biochem & Molecular Biology II

Math – Choose one
- MATH 1460 Calculus for Biological Sciences (preferred)
- MATH 1380 Calculus and Matrix Algebra for Business
- MATH 1550 Engineering Math I
- MATH 1850 Calculus I

Physics – Choose a two-course sequence
- PHYS 1511 College Physics I and PHYS 1512 College Physics II (preferred)
- PHYS 1611 Introductory Physics I and PHYS 1612 Introductory Physics II

Psychology – all of these
- PSY 2701 Introduction to Behavioral Neuroscience
- PSY 2811 Research Methods and Data Analysis I
- PSY 2812 Research Methods and Data Analysis II
- PSY 2975 Introduction to Cognitive Neuroscience (fall only)

Laboratory – Choose one course
Neuroscience Electives – Choose three courses

The Neuroscience BS provides students with a rigorous and broad background in neuroscience, from the cellular and molecular levels to the behavioral and cognitive levels. Students earning a degree in neuroscience will be well-prepared to pursue graduate work in neuroscience or related life sciences, to attend medical school, or to enter other health-related programs such as physician's assistant, public health, or nursing. Graduates also will be prepared to directly enter the workforce in biotechnology industries, academic life science laboratories, science education, and science writing.

This major requires a minimum of 120 sh, including at least 63 sh of work for the major.

Students must complete the College of Liberal Arts & Sciences General Education Program.

Students who major in neuroscience may not earn a major in biology or psychology, but may earn a minor in biology or psychology, as long as no more than 3 sh are double-counted.

There is no minor in Neuroscience.

Advising

Up to 29 sh, students advised at Academic Advising Center
At 30 sh, students advised in Biology or Psychology & Brain Sciences departments

Biology department advisor:
Anna Gaw
Senior Academic Advisor
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Psychological & Brain Sciences department advisors:
Debra L. Johnson
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Honors Advisor for the Neuroscience major:
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