

F = Course offered in the Fall
S = Course offered in the Spring

Requirements

A

Note: we strongly encourage Neuroscience Majors to choose PSY:1001, Elementary Psychology, to fulfill their Social Sciences General Education course requirement. This can be taken concurrently with PSY:2701 during the first semester, if possible. Credit for Advanced Placement Psychology taken as a high school student may fulfill this Social Sciences General Education requirement. Please see your advisor.

B

Choose one of the following options:

- Calculus for the Biological Sciences (MATH:1460, 4 s.h., F and S; RECOMMENDED)
- Calculus I (MATH:1850, 4 s.h., F and S)
- Engineering Mathematics I: Single Variable Calculus (MATH:1550, 4 s.h., F and S)

C

Note that these two semesters of College Physics could be completed any time. However, it will be helpful if College Physics II is taken concurrently or prior to Neurobiology BIOL:3253 due to its discussion of electricity.

D

Choose one of the following laboratory courses:

- Neurobiology Laboratory (BIOL:3656, 4 s.h., Spring only)
- Neurogenetics Laboratory (BIOL: 3655, 4 s.h., Fall only)
- Laboratory in Cognitive Neuroscience (PSY: 4025, 4 s.h., Fall only)
- Animal Behavior with Laboratory (BIOL:3244, 5 s.h. for the course + laboratory. Fall only. Note that you must enroll in both the lab and the lecture).

E

Choose one of the following options:

- 1-course option: Biochemistry and Molecular Biology (BIOC:3110, 3 s.h., Fall and Spring. Note that BIOC:3110 is an in-person course each Fall and an online course each Spring.)
- 2-course option: Biochemistry and Molecular Biology I and II (BIOC:3120, 3 s.h., Fall and Spring, AND BIOC:3130, 3 s.h., Fall and Spring. Note that BIOC:3120 is an in-person course each Fall and an online-only course each Spring, while BIOC:3130 is an online-only course each Fall and an in-person course each Spring).
- Note that Biochemistry could be taken at any point after Principles of Chemistry II, though it is recommended to take it in the 3rd or 4th year.

F

Choose three of the following elective courses. Note that these do not need to be taken in the 4th year. As long as prerequisites have been completed, students may take electives earlier.

- Cell Biology (BIOL:2723, 3 s.h., F and S)
- Diversity of Form and Function (BIOL:1412, 4 s.h., F and S)
- Endocrinology (BIOL:2254, 3 s.h., F)
- Fundamental Genetics (BIOL:2512, 4 s.h., F and S)

- Genes and Development (BIOL:4333, 3 s.h., S)
[Note: BIOL: 2512 is a prerequisite]
- Mechanisms of Aging (BIOL:2603, 3 s.h. F)
- Neurophysiology (BIOL:4353, 3 s.h. S)
- Pharmacology I (PCOL: 3101, 3 s.h., Fall only)
- *Pharmacology II (PCOL: 3102, 3 s.h., Spring only)

For the following courses, please check MyUI for availability:

- Aging Mind and Brain (PSY:3065, 3 s.h.)
- Motivation, Addiction, and the Brain (PSY:3240, 3 s.h.)
- Neurobiology of Stress (PSY:3270, 3 s.h.)
- Neuroethics (PHIL: 3510, 3 s.h.)
- Neuroscience of Learning and Memory (PSY:3250, 3 s.h.)
- Psychology of Learning (PSY:3040, 3 s.h.)
- *Psychopharmacology (PSY:3230, 3 s.h.)

***Note: Students may not take both Pharmacology II (PCOL: 3102) and Psychopharmacology (PSY: 3230).**

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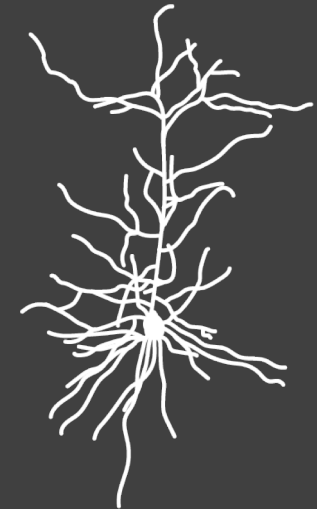


Department of Biology
Department of Psychological
and Brain Sciences

in cooperation with the

Iowa Neuroscience Institute

Bachelor of Science in Neuroscience



Bachelor of Science in Neuroscience

	Chemistry Courses	Neuroscience Courses	Physics Courses	Math Courses
Year 1	<p>Principles of Chemistry I (CHEM:1110)</p> <p>Principles of Chemistry II (CHEM:1120)</p>	<p>Introduction to Behavioral Neuroscience (PSY:2701) Fall or Spring ^A</p> <p>Foundations of Biology (BIOL:1411) Fall or Spring</p>		<p>Calculus ^B</p>
Year 2		<p>Research Methods and Data Analysis I (PSY:2811) Fall or Spring</p> <p>Research Methods and Data Analysis II (PSY:2812) Fall or Spring</p>	<p>Introduction to Cognitive Neuroscience (PSY:2975) Fall</p> <p>Animal Physiology (BIOL:3343) Spring</p>	<p>College Physics I ^C (PHYS:1511)</p>
Years 3 & 4	<p>Biochemistry ^E</p>	<p>Neurobiology (BIOL:3253) Fall</p> <p>Developmental Neurobiology (BIOL:3753) Spring</p> <p>Course with Laboratory ^D (Fall or Spring)</p> <p>Neuroscience Elective ^F</p> <p>Neuroscience Elective ^F</p> <p>Neuroscience Elective ^F</p>	<p>College Physics II ^C (PHYS:1512)</p>	<p>A-F See reverse side for course options and additional information.</p>