## Bachelor of Science in Neuroscience

<table>
<thead>
<tr>
<th>Year</th>
<th>Chemistry and Other Courses</th>
<th>Neuroscience Courses</th>
<th>Physics Courses</th>
<th>Math Courses</th>
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<tbody>
<tr>
<td>1</td>
<td>Principles of Chemistry I (CHEM:1110)</td>
<td>Introduction to Behavioral Neuroscience (PSY: 2701)</td>
<td>Calculus</td>
<td>Calculus</td>
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<td></td>
<td>Principles of Chemistry II (CHEM:1120)</td>
<td>Foundations of Biology (BIOL:1411)</td>
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<td>2</td>
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<td>Research Methods and Data Analysis I (PSY: 2811)</td>
<td>College Physics I (PHYS: 1511)</td>
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<td>Introduction to Cognitive Neuroscience (PSY: 2975)</td>
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<td></td>
<td>Research Methods and Data Analysis II (PSY: 2812)</td>
<td>Animal Physiology (BIOL: 3343)</td>
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<td>3 &amp; 4</td>
<td>Neurobiology (BIOL: 3253)</td>
<td>Course with Laboratory</td>
<td>College Physics II (PHYS: 1512)</td>
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<td>Developmental Neurobiology (BIOL: 3753)</td>
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<td>Biochemistry</td>
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<td>Neuroscience Elective</td>
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Requirements

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.

Choose one of the following options:
- Calculus for the Biological Sciences (MATH:1460, 4 sh, Fall and Spring; RECOMMENDED)
- Engineering Mathematics I: Single Variable Calculus (MATH:1550, 4 sh, Fall and Spring)
- Calculus 1 (MATH:1850, 4 sh, Fall and Spring)

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

Choose one of the following laboratory courses:
- Neurobiology Laboratory (BIOL:3656, 4 sh, Spring only)
- Animal Behavior with Laboratory (BIOL:3244, 5 sh for course + laboratory, Fall only; Note that you must enroll in both the lab and the lecture)

Choose one of the following options:
- 1 course option: Biochemistry (BIOC:3110, 3 sh, Fall and Spring, AND BIOC:3130, 3 sh, Fall and Spring)
- 2 course option: Biochemistry and Molecular Biology I and II (BIOC:3120, 3 sh, Fall and Spring, AND BIOC:3130, 3 sh, 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.

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.
- Diversity of Form and Function (BIOL:1412)
- Fundamental Genetics (BIOL:2512)
- Genes and Development (BIOL:4333) (Note: BIOL:2512 is a prereq)
- Cell Biology (BIOL:2723)
- Mechanisms of Aging (BIOL:2603)
- Endocrinology (BIOL:2254)
- Neurophysiology (BIOL:4353)
- Psychopharmacology (PSY:3230)
- Psychology of Learning (PSY:3040)
- Motivation, Addiction, and the Brain (PSY:3240)
- Neuroscience of Learning and Memory (PSY:3250)
- Neurobiology of Stress (PSY:3270)
- Aging Mind and Brain (PSY:3065)

For more information, please contact:

Anna Gaw
Senior Academic Advisor
144 Biology Building
319-353-2484
anna-gaw@uiowa.edu

Debra Johnson
Academic Coordinator
C106A Seashore Hall
319-335-0135
debra-l-johnson@uiowa.edu

Janeil Page-Jamison
Senior Academic Advisor
C106B Seashore Hall
319-384-3657
janeil-page@uiowa.edu

Ryan LaLumiere, Ph.D.
Director, Neuroscience Major
Associate Professor
Department of Psychological and Brain Sciences
ryan-lalumiere@uiowa.edu

Joshua Weiner, Ph.D.
Associate Director, Iowa Neuroscience Institute
Professor
Department of Biology
joshua-weiner@uiowa.edu