# Bachelor of Science in Biology
## Neurobiology Track

<table>
<thead>
<tr>
<th>1ST YEAR</th>
<th>Biology Courses</th>
<th>Chemistry Courses</th>
<th>Physics Courses</th>
<th>Math/Statistics Courses</th>
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</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>Animal Behavior (BIOL: 3244)</td>
<td>Introduction to Neurobiology (BIOL: 2753)</td>
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<tr>
<td>Spring Semester</td>
<td>Neurobiology (BIOL: 3253)</td>
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<tr>
<th>2ND YEAR</th>
<th>Biology Courses</th>
<th>Chemistry Courses</th>
<th>Physics Courses</th>
<th>Math/Statistics Courses</th>
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<tbody>
<tr>
<td>Fall Semester</td>
<td>Diversity of Form &amp; Function (BIOL: 1412)</td>
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<tr>
<td>Spring Semester</td>
<td>Fundamental Genetics (BIOL: 2512)</td>
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<thead>
<tr>
<th>3RD YEAR</th>
<th>Biology Courses</th>
<th>Chemistry Courses</th>
<th>Physics Courses</th>
<th>Math/Statistics Courses</th>
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<tbody>
<tr>
<td>Fall Semester</td>
<td>Neurobiology Electives (2 courses, see options)</td>
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<tr>
<td>Spring Semester</td>
<td>Evolution (BIOL: 3172) (Fall or Spring semester)</td>
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<tr>
<th>4TH YEAR</th>
<th>Biology Courses</th>
<th>Chemistry Courses</th>
<th>Physics Courses</th>
<th>Math/Statistics Courses</th>
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<tbody>
<tr>
<td>Fall Semester</td>
<td>Experiential Elective (see options)</td>
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<tr>
<td>Spring Semester</td>
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### Course Descriptions:
- **Animal Behavior (BIOL: 3244)**: 5 s.h. with lab
- **Introduction to Neurobiology (BIOL: 2753)**
- **Diversity of Form & Function (BIOL: 1412)**
- **Fundamental Genetics (BIOL: 2512)**
- **Neurobiology Laboratory (BIOL: 3656)**
- **Evolution (BIOL: 3172)** (Fall or Spring semester)
- **Experiential Elective (see options)**
- **Biochemistry (1 or 2 courses, see options)**
- **Physics (2 courses, see options)**
- **Statistics (1 course, see options)**
- **Calculus (1 course, see options)**

### Timelines:
- **1st Year**: Fall (Animal Behavior, Introduction to Neurobiology), Spring (Diversity of Form & Function, Fundamental Genetics)
- **2nd Year**: Fall (Diversity of Form & Function, Fundamental Genetics), Spring (Organic Chemistry I, Physics)
- **3rd Year**: Fall (Animal Behavior, Introduction to Neurobiology), Spring (Neurobiology Electives, Evolution)
- **4th Year**: Fall (Evolution, Experiential Elective), Spring (Biochemistry, Experiential Elective)**

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08/2015
Requirements

*A Choose one of the following options:
- Calculus for the Biological Sciences (MATH:1460, 4 s.h., Fall and Spring semesters)
- Calculus 1 (MATH:1850, 4 s.h., Fall and Spring semesters)
- Engineering Mathematics I: Single Variable Calculus (MATH:1550, 4 s.h., Fall and Spring semesters)

*B Choose one of the following options:
- Statistical Methods and Computing (STAT:2010, 3 s.h., Fall and Spring semesters)
- Biostatistics (STAT:3510, 3 s.h., Fall and Spring semesters)

*C Choose one of the following:
- Biochemistry (BIOC:3110, 3 s.h., Fall and Spring semesters)
- Biochemistry and Molecular Biology I (BIOC:3120, 3 s.h., Fall and Spring semesters) + Biochemistry and Molecular Biology II (BIOC:3130, 3 s.h., Spring semesters)

*D Choose at least two of the following: *1 elective must be taken at the 3000 level or above
- Animal Physiology (BIOL:3343, 3 s.h., Fall semesters)
- Cell Biology (BIOL:2723, 3 s.h., Spring semesters)
- Developmental Neurobiology (BIOL:4753, 3 s.h., Spring semesters)
- Endocrinology (BIOL:2254, 3 s.h., Fall semesters)
- Introduction to Developmental Biology (BIOL:3233, 3 s.h., Fall semesters)
- Neurophysiology (BIOL:4353, 3 s.h., Spring semesters)
- Mechanisms of Aging (BIOL:2603, 3 s.h., Fall Semesters)

*E Choose one of the following:
- Cell Biology Laboratory (BIOL:3626, 4 s.h., Spring semesters)
- Developmental Biology Lab (BIOL:3736, 4 s.h., Spring semesters)
- Evolution Lab (BIOL:3676, 4 s.h., Fall semesters)
- Genetics & Biotechnology Lab (BIOL:3716, 4 s.h., Spring semesters)
- Honors Investigations (BIOL:4999, 6 s.h., Fall and Spring semesters)
- Intro to Research (BIOL:3994, 5 s.h., Fall and Spring semesters) + Communicating Research (BIOL:4898, 1 s.h., Fall and Spring semesters)
- Advanced Teaching Internship in Biology (BIOL:4897, 4 s.h., Fall and Spring semesters)

*F Choose one of the following:
- Introductory Physics I (PHYS:1511, 4 s.h., Fall and Spring semesters) + Introductory Physics II (PHYS:1512, 4 s.h., Fall and Spring semesters)

For more information, please contact the Biology Academic Advisor or visit: biology.uiowa.edu/undergraduate-programs

Anna Gaw
144 Biology Building
Phone: 319-353-2484
Email: anna-gaw@uiowa.edu

To schedule an appointment please visit: https://isis.uiowa.edu/isis2/records/advising/appointments.page

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*1 elective must be taken at the 3000 level or above

Enginering Mathematics I: Single Variable Calculus (MATH:1550, 4 s.h., Fall and Spring semesters)