# Bachelor of Science in Biology

## Cell and Developmental Biology Track

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
<td>Foundations of Biology (BIOL:1411)</td>
<td>Chemistry I (CHEM:110)</td>
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<tr>
<td>2&lt;sup&gt;nd&lt;/sup&gt;</td>
<td>Diversity of Form &amp; Function (BIOL:1412)</td>
<td>Chemistry II (CHEM:1120)</td>
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<tr>
<td>3&lt;sup&gt;rd&lt;/sup&gt;</td>
<td>Developmental Biology (1 course, see options)</td>
<td>Investigative Lab (1 course, see options)</td>
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<tr>
<td>4&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Cell and Developmental Elective (2 courses, see options)</td>
<td>Experiential Elective (see options)</td>
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</tbody>
</table>

### Biology Courses
- Foundations of Biology (BIOL:1411)
- Diversity of Form & Function (BIOL:1412)
- Developmental Biology (1 course, see options)
- Cell and Developmental Elective (2 courses, see options)

### Chemistry Courses
- Chemistry I (CHEM:110)
- Chemistry II (CHEM:1120)
- Investigative Lab (1 course, see options)
- Experiential Elective (see options)

### Physics Courses
- Organic Chemistry I (CHEM:2210)
- Physics (2 courses, see options)

### Math/Statistics Courses
- Calculus (1 course, see options)
- Statistics (1 course, see options)
- Biochemistry (1 or 2 courses, see options)

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08/2015
**Requirements**

*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)

*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)

*Choose one of the following options:

- 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)

*Choose one of the following (One course required, other can be used toward elective credit):

- Introduction to Developmental Biology (BIOL:3233, 3 s.h., Fall semesters)
- Plant Developmental Biology (BIOL:3363, 3 s.h., Spring semesters)

*Choose one of the following (One course required, other can be used toward Experiential Elective):

- Cell Biology Laboratory (BIOL:3626, 4 s.h., Fall semesters)
- Developmental Biology Lab (BIOL:3736, 4 s.h., Spring semesters)

*Choose at least two of the following: *1 elective must be taken at the 3000 level or above

- Introduction to Developmental Biology (BIOL:3233, 3 s.h., Fall semesters) (if not used for group D above)
- Plant Developmental Biology (BIOL:3363, 3 s.h., Spring semesters) (if not used for group D above)
- Animal Physiology (BIOL:3343, 3 s.h., Spring semesters)
- Bioinformatics (BIOL:4213, 4 s.h., Fall semesters)
- Developmental Neurobiology (BIOL:4753, 3 s.h., Spring semesters)
- Endocrinology (BIOL:2254, 3 s.h., Fall semesters)
- Fundamental Neurobiology (BIOL:3253, 4 s.h., Spring semesters)
- Genes and Development (BIOL:4333, 3 s.h., Spring semesters)
- Genomics (BIOL:3114, 3 s.h., Spring semesters)
- Introduction to Neurobiology (BIOL:2753, 3 s.h., Fall semesters)
- Molecular Genetics (BIOL:3713, 4 s.h., Fall semesters)
- Plant Response to the Environment (BIOL:3663, 3 s.h., Fall semesters)
- Mechanisms of Aging (BIOL:2603, 3 s.h., Fall semesters)
- General Microbiology (MICR:2157, 5 s.h., Fall and Spring semesters)
- Survey of Immunology (MICR:3147, 3 s.h., Fall semesters)

*Choose one of the following:

- Evolution Lab (BIOL:3676, 4 s.h., Fall semesters)
- Genetics & Biotechnology Lab (BIOL:3716, 4 s.h., Spring semesters)
- Neurobiology Lab (BIOL:3656, 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)
- Investigative Lab used to satisfy requirement if not used under option E
- Cell Biology Laboratory (BIOL:3626, 4 s.h., Fall semesters)
- Developmental Biology Lab (BIOL:3736, 4 s.h., Spring semesters)

*Choose one of the following sequences:

- College Physics I (PHYS:1511, 4 s.h., Fall and Spring semesters) + College Physics II (PHYS:1512, 4 s.h., Fall and Spring semesters)
- Introductory Physics I (PHYS:1611, 4 s.h., Fall semesters) + Introductory Physics II (PHYS:1611, 4 s.h., Fall semesters)

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

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Email: anna-gaw@uiowa.edu

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