# Bachelor of Science in Biology
## Cell and Developmental Track - Starting in Fall 2013

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Biology Courses</th>
<th>Chemistry Courses</th>
<th>Physics Courses</th>
<th>Math/Statistics Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Fall</td>
<td>Foundations of Biology (BIOL:1411)</td>
<td>Chemistry I (CHEM:1110)</td>
<td></td>
<td>Calculus, or math leading to Calculus (1 course, see options)</td>
</tr>
<tr>
<td></td>
<td>Spring</td>
<td></td>
<td>Chemistry II (CHEM:1120)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2nd</td>
<td>Fall</td>
<td>Diversity of Form &amp; Function (BIOL:1412)</td>
<td>Organic Chemistry I (CHEM:2210)</td>
<td>College Physics I (PHYS:1511)</td>
<td>Statistics (1 course, see options)</td>
</tr>
<tr>
<td></td>
<td>Spring</td>
<td>Fundamental Genetics (BIOL:2512)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3rd</td>
<td>Fall</td>
<td>Evolution (BIOL:3172)</td>
<td>Developmental Biology Requirement (1 course, see options)</td>
<td>Biochemistry (1 or 2 courses, see options)</td>
<td>College Physics II (PHYS:1512)</td>
</tr>
<tr>
<td></td>
<td>Spring</td>
<td>Cell Biology (BIOL:2723)</td>
<td>Investigative Lab (1 course, see options)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4th</td>
<td>Fall</td>
<td>Cell and Developmental Elective (2 courses, see options)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spring</td>
<td>Experiential Elective (see options)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For more information, please contact the Biology Academic Advisor:
Amy Korthank
144 Biology Building
Phone: 319-353-2484
Email: amy-korthank@uiowa.edu

To schedule an appointment, please visit tippie.uiowa.edu/clas/professional-advising
NOTE: The minimum requirement of 6 s.h. of Honors Investigation (BIOL:4999) for an Honors degree must be completed if BIOL:4999 is to substitute for an investigative lab.

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)

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 sequences:
- 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 one of the following (1 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)

E Choose one of the following (1 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)

F At least two of these:
- 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:3314, 3 s.h., Spring semesters)
- Introduction to Neurobiology (BIOL:2753, 3 s.h., Fall semesters)
- Molecular Genetics (BIOL:3713, 4 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)
- Genetic Counseling (BIOL:3113, 3 s.h., Fall semesters)

G Choose one of the following:
- Investigative Lab not used to satisfy that requirement
- Cell Biology Laboratory (BIOL:3626, 4 s.h., Fall 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)
- Neurobiology Lab (BIOL:3656, 4 s.h., Spring semesters)
- Honors Investigations (BIOL:4999, 6 s.h., Fall and Spring semesters)
- Entering Research (BIOL:4898, 1 s.h., Fall and Spring semesters) + Introduction to Research (BIOL:4899, 5 s.h., Fall and Spring semesters)
- Advanced Teaching Internship in Biology (BIOL:4897, 4 s.h., Fall and Spring semesters)

For more information, please contact the Biology Academic Advisor:
Amy Korthank
144 Biology Building
Phone: 319-353-2484
Email: amy-korthank@uiowa.edu

To schedule an appointment, please visit tippie.uiowa.edu/clas/professional-advising

For students admitted for Fall 2013 or after