Bachelor of Science in Biology
Genetics and Biotechnology Track - Starting in Fall 2013

For students admitted for Fall 2013 or after

<table>
<thead>
<tr>
<th>1st Year</th>
<th>Fall Semester</th>
<th>1st Year</th>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td>Biology Courses</td>
<td>Chemistry I (CHEM:1110)</td>
<td>Physics Courses</td>
<td>Math/Statistics Courses</td>
</tr>
<tr>
<td>Foundations of Biology (BIOL:1411)</td>
<td>Calculus, or math leading to Calculus (1 course, see options)</td>
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<tr>
<th>2nd Year</th>
<th>Fall Semester</th>
<th>2nd Year</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>Biology Courses</td>
<td>Chemistry Courses</td>
<td>Physics Courses</td>
<td>Math/Statistics Courses</td>
</tr>
<tr>
<td>Fundamental Genetics (BIOL:2512)</td>
<td>Statistics (1 course, see options)</td>
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<tr>
<th>3rd Year</th>
<th>Fall Semester</th>
<th>3rd Year</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>Biology Courses</td>
<td>Chemistry Courses</td>
<td>Physics Courses</td>
<td>Math/Statistics Courses</td>
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<tr>
<td>Evolution (BIOL:3172)</td>
<td>Molecular Genetics (BIOL:3713)</td>
<td>Biochemistry (1 or 2 courses, see options)</td>
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<tr>
<td>Genomics (BIOL:3314)</td>
<td>Genetics and Biotechnology Lab (BIOL:3716)</td>
<td>College Physics II (PHYS:1512)</td>
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<table>
<thead>
<tr>
<th>4th Year</th>
<th>Fall Semester</th>
<th>4th Year</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>Biology Courses</td>
<td>Chemistry Courses</td>
<td>Physics Courses</td>
<td>Math/Statistics Courses</td>
</tr>
<tr>
<td>Genetics Electives (2 courses, see options)</td>
<td>Experiential Elective (see options)</td>
<td>College Elective (see options)</td>
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</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
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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 at least two of these:
- Bioinformatics (BIOC:4213, 3 s.h., Fall semesters)
- Cell Biology (BIOC:2723, 3 s.h., Spring semesters)
- Genes and Development (BIOC:4333, 3 s.h., Spring semesters)
- Introduction to Developmental Biology (BIOC:3233, 3 s.h., Fall semesters)
- Molecular Phylogenetics (BIOC:4373, 3 s.h., Fall and Spring semesters)
- Plant Developmental Biology (BIOC:3363, 3 s.h., Spring semesters)
- Population Genetics and Molecular Evolution (BIOC:4273, 3 s.h., Spring semesters)
- Microbial Genetics (MICR:3170, 3 s.h., Fall semesters)

E Choose one of the following:
- Cell Biology Laboratory (BIOC:3626, 4 s.h., Fall semesters)
- Developmental Biology Lab (BIOC:3736, 4 s.h., Spring semesters)
- Evolution Lab (BIOC:3676, 4 s.h., Fall 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)

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