## Approved Advanced Biology Courses

**Biology Program at Iowa State University**

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<th>Course #</th>
<th>Biology Course Name</th>
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<td>Intro Bioinformatics and Comp. Bio</td>
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<td>Molecular Cell of Human Disease</td>
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<td>BIOL 334</td>
<td>Metabolic Physiology of Mammals</td>
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<td>BIOL 335</td>
<td>Human &amp; Animal Physiology</td>
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<td>Genome Perspective in Biology</td>
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<td>EEOB 507</td>
<td>Advanced Animal Behavior</td>
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<td>EEOB 514</td>
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<td>EEOB 531</td>
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<td>Bryophyte and Lichen Biodiversity</td>
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<td>Mammalogy</td>
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<td>EEOB 563</td>
<td>Molecular Phylogenetics</td>
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<td>EEOB 564</td>
<td>Wetland Ecology</td>
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<td>Empirical Population Genetics</td>
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<td>Concepts in Theoretical Ecol. &amp; Evol.</td>
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<tr>
<td>GDCB 505</td>
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<td>GDCB 528</td>
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<td>GDCB 533</td>
<td>Advances in Developmental Biology</td>
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<td>Introduction to Bioinformatics</td>
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<td>Plant Molecular, Cell &amp; Dev’t Biology</td>
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<td>Cell, Molec, &amp; Dev’t Neuroscience</td>
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Course offerings vary by semester; check the catalog and [classes.iastate.edu](classes.iastate.edu) for details. Revised Feb 2016
This page lists approved advanced biology courses offered by other departments at Iowa State. These courses may have pre-requisites not included in this list that do not count as advanced biology courses.

### Agronomy Courses
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<tr>
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<tr>
<td>AGRON 338</td>
<td>Seed Science and Technology</td>
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<tr>
<td>AGRON 354</td>
<td>Soils and Plant Growth</td>
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<td>Soils and Plant Growth Lab</td>
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<td>AGRON 421</td>
<td>Introduction to Plant Breeding</td>
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<tr>
<td>AGRON 485</td>
<td>Soil &amp; Environmental Microbiology</td>
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### Genetics Courses
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<td>GEN 409</td>
<td>Molecular Genetics</td>
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<td>GEN 410</td>
<td>Analytical Genetics</td>
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### Horticulture Courses
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<td>Horticulture Physiology</td>
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<td>HORT 322</td>
<td>Plant Propagation</td>
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### Kinesiology Courses
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<td>Biomechanics</td>
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<td>KIN 363</td>
<td>Basic Electrocardiography</td>
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### Microbiology Courses
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<td>MICRO 302</td>
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<td>MICRO 310</td>
<td>Medical Microbiology</td>
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<td>MICRO 310L</td>
<td>Medical Microbiology Lab</td>
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<td>Molecular and Cellular Bacteriology</td>
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<td>Microbial Genetics</td>
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<td>MICRO 408</td>
<td>Virology</td>
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### Natural Resource Ecology & Management Courses
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<td>A ECL 415</td>
<td>Ecol. of Freshwater Inverts/Plants/Algae</td>
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<td>Stream Ecology</td>
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<td>A ECL 442</td>
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<td>Midwestern Prairie Plants</td>
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<td>Forest Herbaceous Layer</td>
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<td>Fire Ecology and Management</td>
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<td>Watershed Management</td>
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<td>Integrating GPS &amp; GIS for Nat. Res.</td>
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### Plant Pathology Courses
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<td>PL P 408</td>
<td>Principles of Plant Pathology</td>
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<td>PL P 416</td>
<td>Forest Insects &amp; Diseases</td>
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<td>PL P 477</td>
<td>Bacterial-Plant Interactions</td>
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<td>PSYCH 315</td>
<td>Drugs and Behavior</td>
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**Iowa Lakeside Laboratory** – courses taken over the summer at Iowa Lakeside Lab often count towards advanced biology requirements. Please check for available courses on the Lakeside Lab web page (http://www.continuetolearn.uiowa.edu/lakesidelab/) and consult your advisor for those that apply to the degree program.