This option is designed for students preparing to do graduate work or to seek full-time employment in this field. Employment can be found with national and state conservation and resource management agencies, park services, environmental consulting agencies, zoological parks, botanical gardens, and publish health facilities, among others.

Faculty advisors in this area have on-going research programs and involve students in their research. Students participate in external internships with the Missouri Department of Conservation and other agencies. In addition students in wildlife and conservation biology have many opportunities to conduct, present, and publish research with biology faculty...

**Wildlife and Conservation Biology students will...**
- Meet with their advisor each semester to assess their progress towards admission to a professional school.
- Take a core of courses that prepares them in any area of biology.
- Take rigorous coursework in ecology, plant biology, and animal biology, which prepares them for advanced study or employment.
- Select additional option courses in management of wildlife populations, management of wildlife habitat, conservation biology, and wetlands ecology and management
- Complete 80 hours (for 2 credit hours) of experiential learning, usually in field studies or internships.
- Complete additional coursework in geology and mathematics to qualify them for wildlife certification after they graduate.
- Attend classes in the renovated Magill Hall building furnished with modern equipment.
- Have access to the Miller Reserve Wetlands Restoration project, the Kelso Wildlife Sanctuary, and the Reis Biological Research Station.

**Career Planning**

Students in Wildlife and Conservation Biology are in high demand.

<table>
<thead>
<tr>
<th>Demonstrated Career Proficiency is a Requirement of all Southeast Students</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course</strong></td>
</tr>
<tr>
<td>CL001/CL002</td>
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<tr>
<td>CL003</td>
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<tr>
<td>CL004</td>
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</tbody>
</table>

**Recent Internship and Field Studies Experiences**
- Missouri Department of Conservation
- Army Corps of Engineers
- Western Illinois University - Edwardsville
- Southern Illinois University - Edwardsville
- Florida Fish and Wildlife Service

**Graduate School Matriculation**
- Southeast Missouri State University
- University of Missouri-Columbia
- Southern Illinois University - Edwardsville

**Employment Opportunities**
- Missouri Department of Conservation
- Army Corps of Engineers
- Saltlick Nature Preserve, Illinois
- World Bird Sanctuary
- Army Corps of Engineers
- Madikwe Game Reserve in South Africa
- Black Hills, South Dakota

**Admission Requirements**

A college preparatory sequence that includes three years of science (including biology, chemistry, and physics) and mathematics through advanced algebra is encouraged.
CURRICULUM CHECKLIST

Biology: Wildlife & Conservation Biology Option - 49 Hours

- BI151 Biological Reasoning (3)
- BI153 Intro to Organismic Biology (4)
- BI154 Genetics and Cell Biology (4)
- BI489 Analysis of Biological Issues (2)
- CH185/085/005 General Chemistry (5)
- MA134 College Algebra (3)
- MA xxx Additional Math (3)
- BI32 General Ecology (3)
- BO200 Plant Biology (4)
- ZO200 Animal Biology (3)

Experimental Learning Requirement: 2 hours
- BI 471-473 Internships in Biology (2)
- OR
- BI 551-553 Biology Field Studies (2)
- OR
- BI 589-591 Biological Research (2)

Choose 6 Hours From:
- BI420 Management of Wildlife Populations (3)
- BI430 Management of Wildlife Habitat (3)
- BI435 Conservation Biology (3)
- BI440 Wetland Ecology and Management (3)

Electives: choose at least 7 Hours not selected above
- BI420 Management of Wildlife Populations (3)
- BI430 Management of Wildlife Habitat (3)
- BI432 Advanced Ecology (3)
- BI434 Marine Evolutionary Ecology (3)
- BI435 Conservation Biology (3)
- BI438 Biogeography (3)
- BI440 Ecology and Management of Wetlands (3)
- BI452 Freshwater Ecology (3)
- BI469 Wildlife Toxicology (3)
- BI 471-473 Internship (1-3)
- BI493 Readings in Biology (2)
- BI551-553 Biology Field Studies (1-3)
- BI 589-591 Biological Research (1-3)
- BO361 Systematic Botany (3)
- BO420 Ethnobotany (3)
- BO445 Plant Physiology (3)
- BO461 Native Aquatic Plants (3)
- BO469 Field Botany (3)
- ZO420 Animal Behavior (3)
- ZO441 Parasitology (3)
- ZO445 Aquatic Entomology (3)
- ZO459 Mammalogy (3)
- ZO460 Herpetology (3)
- ZO465 Entomology (3)
- ZO466 Osteology (3)
- ZO469 Vertebrate Adaptations (3)
- ZO478 Ichthyology (3)

Non-Biology Requirements: 3 Hours
- GO110 Physical Geology (3)

University Studies Requirements (not already listed above):
UI100 First Year Seminar, EN100 English Composition, Artistic Expression, Written Expression, Oral Expression, Literary Expression, Behavioral Systems, Development of a Major Civilization, Economic Systems, Political Systems, Social Systems, two IUIU100s and one UIxxx.

SAMPLE FOUR-YEAR PLAN

Biology:
Wildlife and Conservation Biology Option
Requirements for the 2014-2015 Undergraduate Bulletin

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
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<tbody>
<tr>
<td>Course #</td>
<td>Hrs</td>
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<tr>
<td>UI100</td>
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<td>EN100</td>
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<td>BI151</td>
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<tr>
<td>MA134</td>
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<tr>
<td>Artistic Expression</td>
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<td>BI154</td>
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<td>Additional Math course</td>
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<td>Behavioral Systems</td>
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<tr>
<td>Develop of a Mjr Civ</td>
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<td>ZO200</td>
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<td>BO200</td>
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<tr>
<td>Elective</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
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</tr>
</tbody>
</table>

| THIRD YEAR | Eleven Credits | BI332         | 3    |
| BI420 or BI440 | 3    | BI489         | 2    |
| Experiential Learning Crs | 2    | IUIU100       | 3    |
| Electives    | 8    | Total         | 16   |
| Electives    | 8    | Total         | 14   |

Degree requirements for all students: a minimum of 120 credit hours, completion of University Studies program, career proficiencies (CL001-004), Writing Proficiency Exam (WP003), and completion of the Measure of Academic Proficiency and Progress (MAPP) at the freshman and senior levels.

A minimum 2.00 GPA in the major and overall are required to graduate with a BS in Biology degree.

Refer to the Undergraduate Bulletin or DegreeWorks for additional graduation requirements (i.e. minimum GPA and coursework) for your program of study.

Revised: 02/20/2014