Biology: Wildlife and Conservation Biology Option
Bachelor of Science (BS)

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
Career preparation is part of the mission of Southeast. In fact, more than 90% of Southeast students participate in internships, clinical opportunities, student teaching, research assistantships, and study abroad. Students in Wildlife and Conservation Biology are in high demand. Professional career counselors are available for all students. The Office of Career Services in Academic Hall 057 can provide students with professional career counseling, resume critiques, practice interviews, job search strategies, career events, networking opportunities, and more.

| Demonstrated Career Proficiency is a Requirement of all Southeast Students |
|-----------------------------|-----------------------------|
| CL001/CL002 First Semester | Complete the FOCUS2 assessment and develop a Career Action Plan. |
| CL003 Junior Year           | Students gain information about career planning and job searching resources. |
| CL004 Senior Year           | Students demonstrate advanced proficiency by identifying a position in their field, developing a cover letter, and tailoring a resume for the position. Materials are critiqued to ensure preparedness for a successful job search. |

Recent Internship and Field Studies Experiences
- Missouri Department of Conservation
- Open Rivers & Wetland Field Station
- Trail of Tears State Park
- Big Oak Tree State Park
- Fults Hill Prairie Nature Reserve
- Whiterock Nature Preserve, Illinois
- Saltlick Nature Preserve, Illinois
- World Bird Sanctuary
- Army Corps of Engineers
- Madikwe Game Reserve in South Africa
- Black Hills, South Dakota

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

Employment Opportunities
- Missouri Department of Conservation
- Open Rivers & Wetland Field Station
- Trail of Tears State Park
- National Park Service
- Army Corps of Engineers
- Florida Fish and Wildlife Service

Admission Requirements
A college preparatory sequence that includes three years of science (including biology, chemistry, and physics) and mathematics through advanced algebra is encouraged.
Biology: Wildlife and Conservation Biology Option

Bachelor of Science (BS)

This is a guide based on the 2015-2016 Undergraduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use DegreeWorks to monitor their individual progress.

**CURRICULUM CHECKLIST**

"Critical Courses" are italicized and bolded. Data shows that students who have completed this course in the first two years and have earned the noted grade are most likely to complete this program of study.

**Required Courses:**
- BI151 Biological Reasoning (3)
- BI153 Intro to Organismal Biology (4)
- BI154 Genetics and Cell Biology (4)
- BI489 Analysis of Biological Issues (2)
- CH185/085/005 General Chemistry (5)

**Choose one math course:**
- MA134 College Algebra (3)
- MA137 Precalculus (5)
- MA139 Applied Calculus (3)
- MA140 Analytical Geometry & Calculus I (5)

**Choose one additional math course:**
- MAxxx Additional math (MA133 or higher) (3)

**Critical Courses** are italicized and bolded. Data shows that students who have completed this course in the first two years and have earned the noted grade are most likely to complete this program of study.

**Degree Map 2015-2016**

**Biology: Wildlife and Conservation Biology**

**COLLEGE OF SCIENCE,**

their individual progress such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use DegreeWorks to monitor their individual progress.

**To learn more**
Office of Admissions
(573) 651-2590
admissions@semo.edu

**To explore the College of Science, Technology, and Agriculture online, visit**
www.semo.edu/costa

**For advising**
College of Science, Technology, and Agriculture Advising Center (573) 651-5930
costaadvising@semo.edu
www.semo.edu/costa/advising

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### SAMPLE FOUR-YEAR PLAN

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<thead>
<tr>
<th>Course #</th>
<th>Fall Semester</th>
<th>Hrs</th>
<th>Spring Semester</th>
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<td>3</td>
<td>CH185/085/005</td>
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<td>Artistic Expression</td>
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**Total 15-17**

Milestone: maintain 2.0 cumulative GPA

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<td>Political Systems</td>
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Milestone: maintain 2.0 cumulative GPA

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<td>ZO200</td>
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<td>Social Systems</td>
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Milestone: maintain 2.0 cumulative GPA

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<th>Spring Semester</th>
<th>Course #</th>
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Milestone: maintain 2.0 cumulative GPA

A “Milestone” signifies a significant stage for a student in the completion of a degree.

**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 senior level.

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.

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**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 IUIU3XXs and one U4xx.

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**Revised**
3/19/2015