Organismal Biology students will...

- Meet with their advisor each semester to assess their progress towards admission to a professional school.
- Take a core of courses prepares them in any area of biology.
- Take rigorous coursework in evolutionary biology, ecology, plant biology, and animal biology which prepares them for advanced study or employment.
- 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 employment and graduate school.
- Attend classes in the renovated Magill Hall 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.

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.

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
- Black Hills, South Dakota
- St. Louis Zoo, Missouri

Graduate and Professional School Matriculation

- Southeast Missouri State University
- University of Missouri
- University of Missouri, School of Veterinary Medicine
- Southern Illinois University-Edwardsville
- University of Illinois- Champagne, School of Veterinary Medicine

Recent Employment Realized

- Missouri Department of Conservation
- Open Rivers & Wetland Field Station
- Trail of Tears State Park
- National Park Service
- Army Corps of Engineers
- Woodland Hills High School
- LAD Foundation

Admission Requirements

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

| 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. |

To learn more
Office of Admissions
(573) 651-2590
admissions@semo.edu
www.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
Biology: Organismal, Ecological, & Evolutionary 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:
- MAxxx Additional math (MA133 or higher) (3)
- MA140 Analytical Geometry & Calculus I (5)
- MA139 Applied Calculus (3)
- MA137 Precalculus (5)
- MA134 College Algebra (3)

Choose one science course:
- BI154 Intro to Organismal Biology (4)
- BI151 Behavior Systems, 3-5
- MA134/137/139/140 Additional Math (MA133 or higher) (3)
- MA137 Precalculus (5)
- MA134 College Algebra (3)

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

**Experiential Learning Requirement:** 2 Hours
- BI 473 Internships in Biology (2)
- OR
- BI 551 Biological Research (2)
- OR
- BI 589 Biological Research (2)

**Organismal, Ecological, & Evolutionary Option Required Courses:** 13 Hours
- BI300 Introduction to Organismal Biology (3)
- BI332 General Zoology (3)
- BI200 Plant Biology (3)
- ZO200 Animal Biology (3)

**Biology Electives:** 10 Hours
- Any BI, BO, ZO, BT courses, 300 level and above (10)

**Non-Biology Requirement:** 3 Hours
- UI373 Earth/Life Through Time (3)

**University Studies Requirements** (not already listed above):
- UI100 First Year Seminar
- EN100 English Composition
- Written Expression, Oral Expression, Behavioral Systems, Development of a Major Civilization, Economic Systems, Social Systems, Political Systems, one IU/UI3XX and one IU4XX.

**Sample Four-Year Plan**

<table>
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<th>Fall Semester</th>
<th>Hrs</th>
<th>Course #</th>
<th>Spring Semester</th>
<th>Hrs</th>
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<td>MA134/137/139/140</td>
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**FIRST YEAR**
- Milestone: maintain 2.0 cumulative GPA

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**SECOND YEAR**
- Milestone: maintain 2.0 cumulative GPA

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</table>
- 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 2.0 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 3/19/2015