Biological Sciences (Neurobiology, Physiology and Behavior), BS
LABSCABS

This concentration is a gateway to enter the neuroscience field, apply to medical or veterinary school, or conduct biomedical research. You'll gain a broad, integrated education in the mechanisms governing animal function and behavior. The curriculum builds a strong foundation in biology, chemistry, physics and math to meet career goals.

Program Description

The neurobiology, physiology and behavior concentration serves students in the biological sciences BS degree program with a broad yet rigorous education. While it might seem that physiology and behavior are quite separate fields, the two interact extensively in living organisms to achieve common goals. By studying behavior and physiology from the perspectives of molecular and cellular biology, evolution, organ systems (neural, endocrine, cardiovascular, respiratory, immune, etc.) and the environment, the concentration in physiology and behavior provides insight into how these aspects work together in a variety of ways. Students in this concentration also learn to apply principles from mathematics, chemistry and physics. Discoveries are made at the laboratory bench and in the field, and students in the concentration are encouraged to participate in research projects in the labs of our faculty members.

This program is available as an accelerated degree program:
https://sols.asu.edu/degree-programs/accelerated-bachelor-master-science.

At a Glance

- **College/School:** College of Liberal Arts and Sciences
- **Location:** Tempe campus
- **Additional Program Fee:** Yes
• **Second Language Requirement:** No
• **First Required Math Course:** MAT 251 - Calculus for Life Sciences
  or MAT 270 Calculus with Analytic Geometry I

• **Math Intensity:** Moderate

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**Required Courses (Major Map)**

2018 - 2019 Major Map
Major Map (Archives)

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**Accelerated Degrees**

This program allows students to obtain both a bachelor's and master's degree in as little as five years. It is offered as an accelerated bachelor's and master's degree with:

- Biology (Biology and Society), MS
- Biology, MS
- Molecular and Cellular Biology, MS

Acceptance to the graduate program requires a separate application. During their junior year, eligible students will be advised by their academic departments to apply.

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**Admission Requirements**

**General University Admission Requirements:**

All students are required to meet general university admission requirements.

[Link](https://students.asu.edu/changingmajors) for information about how to change a major to this program.

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**Change of Major Requirements**

A current ASU student has no additional requirements for changing majors. Students should refer to [this link](https://students.asu.edu/changingmajors) for information about how to change a major to this program.

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**Transfer Agreements**
ASU has partnered with colleges and universities in Arizona, California, Illinois and Washington to provide transfer curriculum pathways. Students should select their current institution to see if there is a partnership agreement between the institution and ASU for this degree program. Students who do not see their state or institution listed should check back as ASU is always working on creating new partnerships.

Transfer from a Maricopa Community College in Arizona

Select a college

• Chandler-Gilbert Community College
• Estrella Mountain Community College
• GateWay Community College
• Glendale Community College
• Mesa Community College
• Paradise Valley Community College
• Phoenix College
• Rio Salado College
• Scottsdale Community College
• South Mountain Community College

Transfer from an Arizona Community College

Select a college

• Arizona Western College
• Central Arizona College
• Cochise College
• Coconino Community College
• Dine College
• Eastern Arizona College
• Gila Community College
• Mohave Community College
• Northland Pioneer College
• Pima Community College
• Tohono O’odham Community College
• Yavapai College

Transfer from another state

Select a state

• California
• Illinois
• Washington
• Another state

Global Opportunities

Global Experience

With over 250 programs in more than 65 countries (ranging from one week to one year), study abroad is possible for all ASU students wishing to gain global skills and knowledge in preparation for a 21st century career. Students earn ASU credit for completed courses, while staying on track for graduation, and may apply financial aid and scholarships toward program costs. https://mystudyabroad.asu.edu/
Career Opportunities

The broad education and critical-thinking skills students receive in this concentration are well suited for a variety of rewarding careers. Premedical, preveterinary and predental students get the background and courses needed for professional school application and beyond. Many students go on to graduate school for academic, teaching or research careers in areas such as:

- endocrinology
- environmental or behavioral physiology
- human physiology
- metabolism
- neurobiology
- social behavior

With a Bachelor of Science degree with this concentration, there are opportunities for technical positions in hospitals, research institutes and industry (food, dairy, chemical, pharmaceutical and biotechnology) as well as in government laboratories and agencies. The most important skills students learn in the concentration are critical-thinking and problem-solving skills that can be applied to many scientific problems and professions as well as to the challenges of daily life.

Career examples include but are not limited to those shown in the following list. Advanced degrees or certifications may be required for academic or clinical positions.

<table>
<thead>
<tr>
<th>Career</th>
<th>*Growth</th>
<th>*Median Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture Professor</td>
<td>7.5%</td>
<td>$86,140</td>
</tr>
<tr>
<td>Aquaculture Program Director</td>
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<td>$69,620</td>
</tr>
<tr>
<td>Biological Sciences Professor</td>
<td>15.2%</td>
<td>$78,240</td>
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<tr>
<td>Certified Veterinary Technician (CVT)</td>
<td>20.0%</td>
<td>$33,400</td>
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<tr>
<td>Clinical Trial Manager</td>
<td>9.9%</td>
<td>$118,970</td>
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<tr>
<td>Family Physician</td>
<td>14.3%</td>
<td>$198,740</td>
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<td>Farm Manager</td>
<td>6.3%</td>
<td>$61,480</td>
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<td>Fish and Wildlife Biologist</td>
<td>7.6%</td>
<td>$62,290</td>
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<tr>
<td>Forester</td>
<td>5.0%</td>
<td>$60,120</td>
</tr>
<tr>
<td>Occupation</td>
<td>Growth Rate</td>
<td>Median Salary</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-------------</td>
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<tr>
<td>Forestry Professor</td>
<td>7.8%</td>
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<tr>
<td>Genetic Counselor</td>
<td>29.0%</td>
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<tr>
<td>Geneticist</td>
<td>8.0%</td>
<td>$76,690</td>
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<tr>
<td>Health Sciences Manager</td>
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<tr>
<td>Healthcare Professor</td>
<td>25.9%</td>
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<td>High School Teacher</td>
<td>7.5%</td>
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<td>Hydrogeologist</td>
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<td>Life Scientist</td>
<td>9.2%</td>
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<tr>
<td>Molecular Biologist</td>
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<td>Park Ranger</td>
<td>6.3%</td>
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<td>Physical Therapist (PT)</td>
<td>28.0%</td>
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<td>Physician Assistant (PA)</td>
<td>37.3%</td>
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<td>Ranch Manager</td>
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<tr>
<td>Soil Conservationist</td>
<td>6.3%</td>
<td>$61,480</td>
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<tr>
<td>Veterinarian (Vet)</td>
<td>18.8%</td>
<td>$90,420</td>
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<tr>
<td>Zoologist</td>
<td>5.9%</td>
<td>$60,760</td>
</tr>
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</table>

* Data obtained from the Occupational Information Network (O*NET) under sponsorship of the U.S. Department of Labor/Employment and Training Administration (USDOL/ETA).

🌞 Bright Outlook 🌿 Green Occupation

**Contact Information**

School of Life Sciences | LSA 189  
sols.advising@asu.edu | 480-727-6277