Biological Sciences (Neurobiology, Physiology and Behavior), BS

LABSCABS

Are you interested in animals and animal behavior? Are you looking for a gateway to enter the neuroscience field, apply to medical or veterinary school or conduct biomedical research? This concentration will help you build strong foundations in biology, chemistry, physics and math to get you started toward your 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: The 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

### Required Courses (Major Map)

*2019 - 2020 Major Map*

[Major Map (Archives)]

### Accelerated Program Options

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**
- **Microbiology, 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.

### Admission Requirements

**General University Admission Requirements:**

All students are required to meet general university admission requirements. [Freshman] [Transfer] [International] [Readmission]

### Change of Major Requirements

A current ASU student has no additional requirements for changing majors.

Students should refer to [https://changingmajors.asu.edu/request](https://changingmajors.asu.edu/request) for information about how to change a major to this program.
Transfer Options

ASU is committed to helping students thrive by offering tools that allow personalization of the transfer path to ASU. Students may use the Transfer Map search to outline a list of recommended courses to take prior to transfer.

ASU has transfer partnerships in Arizona and across the country to create a simplified transfer experience for students. These pathway programs include exclusive benefits, tools and resources, and help students save time and money in their college journey. Students may learn more about these programs by visiting the admission site: https://admission.asu.edu/transfer/pathway-programs.

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 in 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>Biological Sciences Professor</td>
<td>15.2%</td>
<td>$78,240</td>
</tr>
<tr>
<td>Family Physician</td>
<td>14.3%</td>
<td>$198,740</td>
</tr>
<tr>
<td>Fish and Wildlife Biologist</td>
<td>7.6%</td>
<td>$62,290</td>
</tr>
<tr>
<td>Genetic Counselor</td>
<td>29.0%</td>
<td>$77,480</td>
</tr>
<tr>
<td>High School Teacher</td>
<td>7.5%</td>
<td>$59,170</td>
</tr>
<tr>
<td>Life Scientist</td>
<td>9.2%</td>
<td>$74,540</td>
</tr>
<tr>
<td>Physical Therapist (PT)</td>
<td>28.0%</td>
<td>$86,850</td>
</tr>
<tr>
<td>Physician Assistant (PA)</td>
<td>37.3%</td>
<td>$104,860</td>
</tr>
<tr>
<td>Veterinarian (Vet)</td>
<td>18.8%</td>
<td>$90,420</td>
</tr>
<tr>
<td>Zoologist</td>
<td>5.9%</td>
<td>$60,760</td>
</tr>
</tbody>
</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**

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