Biological Sciences (Neurobiology, Physiology and Behavior), BS

LABSCABS

Are you interested in animals and animal behavior? Do you plan to enter the neuroscience field, apply to medical or veterinary school, or conduct biomedical research? This concentration helps you build strong foundations in biology, chemistry, physics and math --- your first step toward your goals.

Program Description

The neurobiology, physiology and behavior concentration serves students in the BS program in biological sciences with a broad yet rigorous education.

While it might seem that neurobiology, physiology and behavior are quite separate fields, the three interact extensively in living organisms to achieve common goals. By studying neurobiology, behavior and physiology from the perspectives of molecular and cellular biology, evolution, organ systems (neural, endocrine, cardiovascular, respiratory, immune and more), and the environment, students gain 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 faculty members.

This program is available as an accelerated degree program.

In addition to the guidelines in the Concurrent Program Options section below, students interested in pursuing concurrent or second baccalaureate degrees in The College of Liberal Arts and Sciences are advised to visit the college's website for more information and requirements.

At a Glance
• College/School: The College of Liberal Arts and Sciences
• Location: Tempe
• Additional Program Fee: Yes
• Second Language Requirement: No
• First Required Math Course: MAT 251 - Calculus for Life Sciences
• Math Intensity: Moderate

Required Courses (Major Map)

2023 - 2024 Major Map
Major Map (Archives)

Concurrent Program Options

Students pursuing concurrent degrees (also known as a "double major") earn two distinct degrees and receive two diplomas. Working with their academic advisors, students can create their own concurrent degree combination. Some combinations are not possible due to high levels of overlap in curriculum.

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 plus master's degree with:

Biology (Biology and Society), MS
Biology, MS
Global Management (Creative Industries and Design Thinking), MGM
Global Management (Digital Audience Strategy), MGM
Global Management (Global Affairs), MGM
Global Management (Global Business), MGM
Global Management (Global Development and Innovation), MGM
Global Management (Global Digital Transformation), MGM
Global Management (Global Entrepreneurship), MGM
Global Management (Global Health Care Delivery), MGM
Global Management (Global Legal Studies), MGM
Global Management (Nonprofit Leadership and Management), MGM
Global Management (Public Administration), MGM
Acceptance to the graduate program requires a separate application. Students typically receive approval to pursue the accelerated master's during the junior year of their bachelor's degree program. Interested students can learn about eligibility requirements and how to apply.

**Admission Requirements**

**General University Admission Requirements:**
All students are required to meet general university admission requirements.

| First-year | Transfer | International | Readmission |

**Tuition Information**

When it comes to paying for higher education, everyone's situation is different. Students can learn about ASU tuition and financial aid options to find out which will work best for them.

**Change of Major Requirements**

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

Students should visit the Change of Major form 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 MyPath2ASU® 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 they help students save time and money in their college journey.

**Global Opportunities**
Global Experience
Through study abroad, whether in a foreign country, in the U.S. or online, students studying biological sciences experience unique biological environments and gain an understanding of worldwide differences in the human condition. They are able to be exposed to a variety of laws, policies and practices in biology-centric environments worldwide and expand their knowledge of how science impacts society.

With more than 300 options available, Global Education programs allow students to tailor their experience to their unique interests and skill sets, and they are able to engage in community service and outreach, which can help their graduate and professional program applications stand out.

The College of Liberal Arts and Sciences recommends these programs for students majoring in neurobiology, physiology and behavior.

Career Opportunities
The broad education and critical-thinking skills students receive in this concentration are applicable to 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, graduates have 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 example titles and salaries listed below are not necessarily entry level, and students should take into consideration how years of experience, geographical location, and required advanced degrees or certifications may affect pay scales.

<table>
<thead>
<tr>
<th>Career</th>
<th>*Growth</th>
<th>*Median Salary</th>
</tr>
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<tbody>
<tr>
<td>Biological Sciences Professor 🌟</td>
<td>8.6%</td>
<td>$81,650</td>
</tr>
<tr>
<td>Family Practice Medical Doctor (FP MD)</td>
<td>3.7%</td>
<td>$211,300</td>
</tr>
<tr>
<td>Fish and Wildlife Biologist</td>
<td>3.0%</td>
<td>$67,430</td>
</tr>
<tr>
<td>Occupation</td>
<td>Trend</td>
<td>Salary</td>
</tr>
<tr>
<td>-------------------------</td>
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</tr>
<tr>
<td>Genetic Counselor</td>
<td>16.1%</td>
<td>$89,990</td>
</tr>
<tr>
<td>High School Teacher</td>
<td>1.0%</td>
<td>$62,360</td>
</tr>
<tr>
<td>Neurologist</td>
<td>3.2%</td>
<td>$224,260</td>
</tr>
<tr>
<td>Physical Therapist (PT)</td>
<td>15.1%</td>
<td>$97,720</td>
</tr>
<tr>
<td>Physician Assistant (PA)</td>
<td>26.5%</td>
<td>$126,010</td>
</tr>
<tr>
<td>Veterinarian (Vet)</td>
<td>19.7%</td>
<td>$103,260</td>
</tr>
<tr>
<td>Zoologist</td>
<td>5.7%</td>
<td>$69,390</td>
</tr>
</tbody>
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* 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

**Contact Information**

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