Neuroscience, BS

Whether your career goal is in bioengineering, medicine, pharmaceuticals, clinical science, or pure neuroscience or neuroimaging research, this degree provides the foundations and the flexibility you need to help take your first step. This program encompasses training across the four foundational areas in neuroscience.

Program Description

Neuroscience is concerned with understanding the structure and function of the nervous system and its relation to behavior. The field of neuroscience spans all levels of biological analysis with interfaces to many fields such as mathematics, psychology, philosophy, law and engineering.

The BS program in neuroscience consists of rigorous, in-depth training in cellular and molecular neuroscience, systems biology, behavioral neuroscience, and cognitive neuroscience. After this breadth of training in foundational knowledge, students elect a focus area within these four categories.

Following coursework in their specific area of specialization, students are prepared for collaborative and interdisciplinary research in neuroscience. The degree program also enables students to enter professional degree graduate programs and to integrate innovative outcomes from the research community into their practices.

At a Glance

- **College/School:** [The College of Liberal Arts and Sciences](#)
- **Location:** [Tempe campus](#) or [online, ASU Local@Los Angeles](#)

- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
• **First Required Math Course**: MAT 251 - Calculus for Life Sciences  
or MAT 265 Calculus for Engineers I or MAT 270 Calculus with Analytic Geometry I  
• **Math Intensity**: Moderate

**Required Courses (Major Map)**

2021 - 2022 Major Map (On-campus)  
2021 - 2022 Major Map (Online)  
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:

**Microbiology, MS**

Acceptance to the graduate program requires a separate application. During their junior year, eligible students are 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://changemajor.apps.asu.edu](https://changemajor.apps.asu.edu) for information about how to change a major to this program.

**Attend Online**

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may view the program description and request more information [here](#).

**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 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
Students gain valuable experience when studying abroad, experience that enhances their resumes. With over 250 programs available, study abroad allows students to tailor their experience to their unique interests and skill sets. Students majoring concurrently in neuroscience are able to expand their communication and research skills in a variety of cultures and challenge themselves to adapt and persevere in a new and exciting culture. https://goglobal.asu.edu/

The College of Liberal Arts and Sciences recommends the following study abroad programs for students majoring concurrently in neuroscience: https://mystudyabroad.asu.edu/students/major/sls/neuroscience.

Career Opportunities

The bachelor's degree in neuroscience prepares students for work in fields such as:

- academic research
- bioengineering
- biotechnology
- data science
- medical research
- medicine
- neuropsychology
- pharmaceutical research and development
- physical rehabilitation
- speech rehabilitation

Graduates are also competitive for entry into graduate-level programs in biomedical fields that prepare them for careers in medicine, nursing, clinical professions, technology or veterinary medicine.

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>9.3%</td>
<td>$85,600</td>
</tr>
<tr>
<td>Biological Technician</td>
<td>4.9%</td>
<td>$46,340</td>
</tr>
<tr>
<td>Occupation</td>
<td>Growth Rate</td>
<td>Median Annual Income</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>-------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Biomedical Engineer</td>
<td>4.7%</td>
<td>$92,620</td>
</tr>
<tr>
<td>Clinical Trial Manager</td>
<td>4.8%</td>
<td>$137,940</td>
</tr>
<tr>
<td>Data Scientist</td>
<td></td>
<td>not available</td>
</tr>
<tr>
<td>Health Sciences Manager</td>
<td>4.8%</td>
<td>$137,940</td>
</tr>
<tr>
<td>Neuropsychologist</td>
<td>2.3%</td>
<td>$105,780</td>
</tr>
<tr>
<td>Pharmacist</td>
<td></td>
<td>$128,710</td>
</tr>
<tr>
<td>Physical Rehabilitation Physician</td>
<td></td>
<td>not available</td>
</tr>
<tr>
<td>Speech Pathologist</td>
<td>24.9%</td>
<td>$80,480</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).

[스마일 별기] Bright Outlook  [아이스 풀기] Green Occupation

Contact Information

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