Neuroscience, BS

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

Program Description

Neuroscience seeks to understand how the brain and nervous system function to control bodily function, behavior and our internal mental states. The field of neuroscience spans all levels of biological analysis with interfaces to many fields such as mathematics, psychology, philosophy, medicine, law and engineering.

The BS program in neuroscience consists of rigorous, in-depth training in the interdisciplinary foundations of neuroscience (biology, chemistry and psychology) along with breadth of training across the main areas of neuroscience, defined by distinct levels of analysis:

- behavioral neuroscience: how the brain and nervous system control behavior
- cellular and molecular neuroscience: how cells in the nervous system work
- cognitive neuroscience: how brain activity underlies thoughts and emotions
- systems neuroscience: how the billions of neurons work together

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.

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 or Online, ASU Local

- **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)

2023 - 2024 Major Map (On-campus)
2023 - 2024 Major Map (Online)
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:

- Microbiology, MS
- Molecular and Cellular Biology, MS

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 college, 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.

Attend Online

ASU Online

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may view the program’s ASU Online page for program descriptions and to request more information.

ASU Local

It is now possible to earn an ASU degree with ASU Local, an integrated college experience in which students take advantage of in-person success coaching and programming experiences on site while completing one of 130+ undergraduate online degree programs, all of which come with online faculty interaction and tutoring support.

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

Students can gain valuable experience when studying abroad, experience that enhances their resumes. Students majoring concurrently in neuroscience are able to expand their communication and research skills and challenge themselves to adapt and persevere in a new and exciting culture.
With over 300 programs available in a variety of cultures, study abroad allows students to tailor their experience to their unique interests and skill sets. The College of Liberal Arts and Sciences recommends specific study abroad programs for students majoring concurrently in 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 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>
</thead>
<tbody>
<tr>
<td>Biological Sciences Professor</td>
<td>8.6%</td>
<td>$81,650</td>
</tr>
<tr>
<td>Biological Technician</td>
<td>4.7%</td>
<td>$49,650</td>
</tr>
<tr>
<td>Biomedical Engineer</td>
<td>5.1%</td>
<td>$99,550</td>
</tr>
<tr>
<td>Clinical Trial Manager</td>
<td>4.8%</td>
<td>$144,440</td>
</tr>
<tr>
<td>Data Scientist</td>
<td>35.2%</td>
<td>$103,500</td>
</tr>
<tr>
<td>Health Sciences Manager</td>
<td>4.8%</td>
<td>$144,440</td>
</tr>
<tr>
<td>Neuropsychologist</td>
<td>5.1%</td>
<td>$106,420</td>
</tr>
<tr>
<td>Pharmacist</td>
<td>2.6%</td>
<td>$132,750</td>
</tr>
<tr>
<td>Physical Rehabilitation Physician</td>
<td>3.0%</td>
<td>$223,410</td>
</tr>
<tr>
<td>Speech Pathologist</td>
<td>19.3%</td>
<td>$84,140</td>
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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).
Contact Information

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