Pharmacology and Toxicology, BS

ASPTXBS

Program Description

The human body comes into contact with countless chemicals and drugs during the course of a lifetime. The study of how these foreign materials react with our bodies has been an intense and enduring venture that has yielded astounding breakthroughs and contributions to the medical community.

The West campus of Arizona State University is proud to be part of that venture, offering the BS program in pharmacology and toxicology. In order to have a thorough understanding of the interactions of chemicals in the biological system, students in the program study both biology and chemistry, and become familiar with chemical interactions at physiological, molecular and cellular levels.

With a heavy focus on experiential learning within the laboratory, graduates of the pharmacology and toxicology degree program are better prepared to obtain careers ranging from clinical research coordinators to veterinarians to even governmental roles.

This major is eligible for the Western Undergraduate Exchange (WUE) program at the following location: West campus. Students from Western states who select this major and campus may be eligible for reduced nonresident tuition at a rate of 150 percent of Arizona resident tuition plus all applicable fees. See more information and eligibility requirements on the Western Undergraduate Exchange (WUE) program.

At a Glance

- **College/School:** New College of Interdisciplinary Arts and Sciences
- **Location:** West campus WUE

- **Additional Program Fee:** No
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 210 - Brief Calculus
- **Math Intensity:** Moderate

Required Courses (Major Map)
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://students.asu.edu/changingmajors for information about how to change a major to this program.

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

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

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/](https://mystudyabroad.asu.edu/).

Career Opportunities

The pharmacology and toxicology degree program prepares students for a number of career paths including:

- laboratory researcher
- pharmacist
- physician
- physician's assistant
- veterinarian

Graduates also may work at governmental agencies or at private companies in areas such as:

- Arizona Department of Environmental Quality
- city government
- clinical trials
- Department of Transportation
- Environmental Protection Agency
- product safety evaluation
- regulatory affairs
- teaching

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>Clinical Trial Manager ♦</td>
<td>9.9%</td>
<td>$118,970</td>
</tr>
<tr>
<td>Health Sciences Manager ✿</td>
<td>9.9%</td>
<td>$118,970</td>
</tr>
<tr>
<td>Hydrogeologist ✿</td>
<td>9.9%</td>
<td>$118,970</td>
</tr>
<tr>
<td>Medical Scientist ✿</td>
<td>13.4%</td>
<td>$82,090</td>
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<tr>
<td>Molecular Biologist</td>
<td>8.0%</td>
<td>$76,690</td>
</tr>
<tr>
<td>Veterinarian (Vet) ✿</td>
<td>18.8%</td>
<td>$90,420</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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