Pharmacology and Toxicology, BS
ASPTXBS

Every day the human body comes into contact with countless chemicals that can affect the body with both positively and negatively. In this laboratory-focused program, you learn the molecular basis for these chemicals and how drugs, legal and illegal, can affect cells, organs and organisms.

Program Description

Students in the BS program in pharmacology and toxicology study how foreign materials react with human bodies. To have a thorough understanding of the interactions of chemicals in the biological system, students in the program study both biology and chemistry, and they become familiar with chemical interactions at physiological, molecular and cellular levels.

This major is eligible for the Western Undergraduate Exchange 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% of Arizona resident tuition plus all applicable fees. Students should click the link for more information and eligibility requirements of the WUE program.

At a Glance

- **College/School:** New College of Interdisciplinary Arts and Sciences
- **Location:** West [WUE](#)

- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 210 - Brief Calculus or MAT 251 Calculus for Life Sciences
- **Math Intensity:** Moderate
Required Courses (Major Map)

2022 - 2023 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 and master's degree with:

Biological Data Science, 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.
First-year | 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 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. Students may learn more about these programs by visiting the admission site: https://admission.asu.edu/transfer/MyPath2ASU.
Global Opportunities

Global Experience
Students gain valuable experience when they study abroad, experience that enhances their resume. With over 250 programs available, students can tailor their educational experience to their unique interests and skill sets. Pharmacology and toxicology students are able to expand their knowledge of how science impacts society in a variety of cultures. https://goglobal.asu.edu/

Career Opportunities

With a heavy focus on experiential learning within the laboratory, graduates of the pharmacology and toxicology degree program are better prepared to obtain careers in diverse areas such as government, industry, health care and business. The pharmacology and toxicology degree program prepares students for a number of career paths including:

- environmental risk assessor or consultant
- laboratory researcher
- pharmacist
- physician
- physician's assistant
- toxicologist
- 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
- 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>9.3%</td>
<td>$85,600</td>
</tr>
<tr>
<td>Clinical Trial Manager 🌟</td>
<td>4.8%</td>
<td>$137,940</td>
</tr>
<tr>
<td>Health Sciences Manager 🌟🌟</td>
<td>4.8%</td>
<td>$137,940</td>
</tr>
<tr>
<td>Occupation</td>
<td>Growth Rate</td>
<td>Salary</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-------------</td>
<td>---------</td>
</tr>
<tr>
<td>Medical Scientist</td>
<td>6.1%</td>
<td>$91,510</td>
</tr>
<tr>
<td>Molecular Biologist</td>
<td>2.2%</td>
<td>$85,290</td>
</tr>
<tr>
<td>Veterinarian (Vet)</td>
<td>15.9%</td>
<td>$99,250</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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