Pharmacology and Toxicology, BS

The human body comes into contact with countless chemicals and drugs during the course of a lifetime. This degree program on the West campus exploring how these foreign materials react with our bodies has been an intense and enduring venture, one that has yielded astounding breakthroughs and contributions to the medical community.

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 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 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 campus
- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 210 - Brief Calculus OR MAT 251
Required Courses (Major Map)

2020 - 2021 Major Map
Major Map (Archives)

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://changingmajors.asu.edu/request 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 the Transfer Map search 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

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
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/

Career Opportunities

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

- environmental risk assessor/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>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>Medical Scientist</td>
<td>13.4%</td>
<td>$82,090</td>
</tr>
<tr>
<td>Molecular Biologist</td>
<td>8.0%</td>
<td>$76,690</td>
</tr>
</tbody>
</table>
Veterinarian (Vet)  

18.8%  
$90,420

* 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

School of Mathematical and Natural Sciences | FAB N100
mnsadvising@asu.edu | 602-543-3000