

PHARMACOLOGY AND TOXICOLOGY, B.S.

Seven Penn State campuses are scheduled for closure after Spring 2027: DuBois, Fayette, New Kensington, Mont Alto, Shenango, Wilkes-Barre, and York. New students are not being admitted at these campuses.

Begin Campus: Any Penn State Campus

End Campus: University Park

Career Paths

Concerns over drug safety, environmental quality, and occupational exposure to chemicals all lead to a high demand for specialists. Our major in Toxicology is one of only a handful of such programs in the United States. Graduates distinguish themselves with focused courses in toxicology and pharmacology while retaining the freedom to choose from a wide variety of courses in biomedicine and biotechnology.

Careers

Thanks to the specialization students can obtain in toxicology and pharmacology, there are plentiful employment opportunities for graduates after four years. Some of these opportunities include research positions in biotechnology or pharmaceutical firms, government or international health and environmental agencies, and academic research laboratories. Career possibilities can be found in the pharmaceutical industry, the biomedical industry, government laboratories, academic research and education, and private research organizations.

Opportunities for Graduate Studies

The Toxicology major can provide excellent preparation for professional and graduate programs. The major helps prepare students for graduate school in all biomedical and life science fields, including toxicology, pharmacology, biochemistry and cancer research. The direct relevance of the course work to human and animal health strongly attracts students interested in medicine and related fields, while the emphasis on biotechnology allows students to continue their education in professional programs including law and business.

Professional Resources

- Society of Toxicology (<https://www.toxicology.org>)
- National Institute of Environmental Health (<https://www.niehs.nih.gov>)
- National Toxicology Program (<https://ntp.niehs.nih.gov>)
- Toxipedia (<https://www.asmalldoseoftoxicology.org/home>)