PHARMACOLOGY AND TOXICOLOGY, B.S.

Begin Campus: Any Penn State Campus

End Campus: University Park

Program Learning Objectives

Students in the Toxicology major at Penn State first obtain a solid foundation in mathematics, physical sciences, chemistry, biochemistry, and molecular biology. They then enjoy the opportunity to specialize with required courses in pharmacology and toxicology. Finally, each student’s curriculum is unique based on their choices of Program Goals.

1. Students will exhibit specialized competencies in toxicology and pharmacology based upon a solid grounding in the physical and biological sciences. (Physical, biological and toxicology competencies)

2. Students will have access to meaningful research experience and the professional development that accompanies such training including the ability to formulate a research question and design experimental procedures. (Research Experience)

3. Graduates will demonstrate collaborative learning, critical thinking, and research skills, as well as skills to communicate effectively to professional and lay audiences. (Collaborative learning, critical thinking and communication)

4. Graduates will be prepared to succeed in industry, government, academic research, and in graduate and professional study. (Career planning and advancement)

5. Students will apply ethical principles in conducting scientific research and apply their expertise to a broader health and societal context. (Ethics and toxicology outreach)