

Pesticide Toxicology

ENT 497, Spring 2019 (3 units)

Course ID: 017483

Instructor: Dr. Fang (Rose) Zhu fuz59@psu.edu

Level and Scope: Undergraduate and Graduate from College of Agricultural Sciences

Course description: Pesticides are effective Integrated Pest Management (IPM) tools for protecting crops, fighting insect disease vectors, and dealing with nuisance animals, such as bed bugs, rodents, and ticks. However, pesticides can harm beneficial arthropods, human health, and the environment without judicious use. This interdisciplinary course explores basic pesticide toxicology principles including an introduction of toxicology and pesticides, exposure and evaluation of toxicity, chemical classification of pesticides, toxicodynamics, pesticide resistance, major classes of synthetic pesticides and biopesticides, genetic engineering pest resistant crops, environmental toxicology and pesticide regulation. Current literature discussion, presentations, and class project development will supplement lectures.

When: Tue + Thur 9:05-10:20 am

Where: Room 9 Business Building (Gold-level facility)



*The Pennsylvania State University
University Park*