

INTERDISCIPLINARY TOXICOLOGY PROGRAM
University of Georgia

CORE COMPETENCIES

MS and Ph.D. Students:

Upon successful completion of any of the interdisciplinary graduate degree programs in Toxicology, students should be able to:

- 1) Demonstrate working knowledge and comprehension of toxicological principles, including, but not limited to, dose-response, mechanisms of action, toxicokinetics, target organ toxicity, environmental fate and transport of chemicals and chemical induced-toxicity and cancer.
- 2) Employ strong critical thinking skills in analyzing and interpreting toxicological data
- 3) Apply problem-solving skills to synthesize, evaluate and tests hypotheses.
- 4) Evaluate and critique both current and emerging areas of toxicology research, emerging technologies and issues in toxicology .

MS Students

Additionally, upon successful completion of the MS in Toxicology, students should be able to:

- 5) Apply theory and toxicological principles in their research; and
- 6) Evaluate public/occupational/environmental health recommendations for exposures to chemicals, pathogens or toxic materials.

Ph.D. Students

Additionally, upon successful completion of the PhD in Toxicology, students should be able to:

- 5) Formulate scientific knowledge in the field of toxicology by conceiving, synthesizing and conducting original research.
- 6) Evaluate public/occupational/environmental health hazards risks from exposure to chemicals, pathogens or toxic materials using advanced research methods; and
- 7) Construct research findings and scientific literature to inform public policy by making public/occupational/environmental health recommendations concerning risks of exposures to chemicals, pathogens or toxic materials