

PHD IN TOXICOLOGY AND CANCER BIOLOGY AND MASTER'S DEGREE IN TOXICOLOGY



OUR MISSION

We are an Interdisciplinary Program whose faculty are leaders in their fields and use cutting edge approaches to investigate oxidative stress, genetic instability, metabolism and epigenetics and their relationships to cancer and other human diseases. Students can choose to be trained in areas that have an emphasis on either Toxicology or Cancer Biology, or identify projects that integrate the two areas. We maintain a robust extramurally supported training environment, including an NIEHS T32 training grant for doctoral students, which has been continuously funded since 1990.

Toxicology

Students interested in Toxicology investigate the effects of toxic agents on humans and our environment.

Cancer Biology

Students interested in Cancer Biology investigate problems related to cancer development, improved cancer treatments and preventions.

OUR FACULTY

Our department consists of 22 tenured/tenure track CORE Faculty with a primary appointment in Toxicology and Cancer Biology. The diversity of training opportunities is enhanced by approximately 44 faculty who have a Joint Appointment in the department, but whose primary appointments are in Departments and Colleges across the University. In addition, students work with postdoctoral fellows, physicians and visiting scholars with diverse backgrounds and research interest.

APPLICATION PROCESS AND INQUIRIES

Visit <https://toxicology.med.uky.edu/> OR
For more information, contact Dr. Isabel Mellon,
Director of Graduate Studies
Email toxandcancerbio@uky.edu

Curriculum Timeline for PhD in Toxicology and Cancer Biology

<p>Year 1 Fall</p>	<p>IBS 601: Biomolecules and Metabolism (3) IBS 602: Biomolecules and Molecular Biology (3) IBS 610: Critical Scientific Readings (2) IBS 611: Practical Statistics (1) TOX 770-001: Toxicology Seminar (1) TOX 770-002: Toxicology Seminar/Orientation-Journal Club (1) TOX 790: Research in Toxicology (1)</p>	
<p>Year 1 Spring</p>	<p>IBS 603: Cell Biology (3) IBS 606: Integrated Biomedical Sciences (3) IBS 608: Special Topics in IBS (4 x 0.5 h mini-courses) (2) TOX 600: Ethics in Scientific Research (1) TOX770-001: Toxicology Seminar (0) TOX790: Research in Toxicology (1)</p>	
<p>Year 2 Fall</p>	<p>TOX 509: Environmental and Regulatory Toxicology (2) TOX 663: Drug Metabolism and Disposition (2) TOX 770-001: Toxicology Seminar (0)</p>	<p>Select at least 3 out of 4 courses: - TOX 509 - TOX 663 - TOX 680 - MI 616 Offered in the Fall and Spring and 2 electives</p>
<p>Year 2 Spring</p>	<p>TOX 680: Molecular Toxicology and Carcinogenesis Spring (3) MI 616: Biology and Therapy of Cancer Spring (3) TOX 780: Special Problems in Toxicology/Grant Writing (2) TOX 770-001: Toxicology Seminar (0)</p>	
<p>Years 1-2</p>	<p>Comprehensive Qualifying Exam 36 credit hours are required to be eligible to schedule the doctoral qualifying exam after completion of the second year</p>	
<p>Years 3-5</p>	<p>Enrolled each semester: TOX 767: Dissertation Residency Credit (2)</p>	
	<p>Dissertation Defense</p>	