

PH.D. IN TOXICOLOGY

Department of Environmental and Radiological Health Sciences

Toxicology is the study of the effects of chemicals and other potentially harmful agents on biological systems. The field draws upon the sciences of biology, chemistry, biochemistry, physiology, cell and molecular biology, neuroscience, and pathology. The core curriculum provides a comprehensive background in toxicology, enhanced by elective offerings in the department and the many related basic and health science courses available at CSU. The Ph.D. in Toxicology prepares students for research careers in industry, government, and academia. The emphasis is on developing the abilities of the student to progress to a career as an independent scientist.

Requirements Effective Fall 2021

Code	Title	Credits
Core Courses		
ERHS 502	Fundamentals of Toxicology	3
ERHS 601	Metabolism and Disposition of Toxic Agents	3
ERHS 602	Toxicological Mechanisms	3
ERHS 603	Toxicological Pathology	3
ERHS 693C	Research Seminar: Toxicology	1
Other Requirements		
Toxicology Courses ¹		9
BMS 450	Pharmacology	
ERHS 448	Environmental Contaminants	
ERHS 504	Occupational and Environmental Toxicology	
ERHS 507A	Toxicology Toolbox: Fundamentals	
ERHS 507B	Toxicology Toolbox: Metabolism and Disposition	
ERHS 546	Environmental Exposure Assessment	
ERHS 547	Equipment and Instrumentation	
ERHS 549	Environmental Health Risk Assessment	
ERHS 565	Chemical and Biological Warfare Agents	
ERHS 566	Forensic Toxicology	
ERHS 567	Cell and Molecular Toxicology Techniques	
ERHS 568	Pharmaceutical and Regulatory Toxicology	
ERHS 569	Immunotoxicology	
ERHS 733	Environmental Carcinogenesis	
Seminar Requirement		1
Electives		6
ERHS 799	Dissertation	4
Program Total Credits		72

A minimum of 72 credits are required to complete this program.

¹ Select courses as approved by advisor and graduate committee.

² A minimum of 1 credit of graduate seminar determined by the advisor and graduate committee in addition to the core requirement of ERHS 693C.

³ A maximum of 6 credits of Electives courses below 500-level may be counted toward the program total.

⁴ Select enough dissertation credits to bring the program total to a minimum of 72 credits as approved by the advisor and graduate committee.