

# MASTER OF SCIENCE IN TOXICOLOGY, PLAN B

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 basic and health science courses available at CSU.

The non-thesis M.S. in Toxicology, Plan B transitions graduates into MD, DVM, PharmD, and other professional programs, as well as prepares students for research careers in industry, government, and academia. Graduates can also find professional employment in public and private sector positions such as environmental protection, risk assessment, or product safety evaluation.

## Requirements Effective Fall 2021

Code	Title	Credits
<b>Core Courses</b>		
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
<b>Toxicology Courses</b> <sup>1</sup>		
Select at least 9 credits from the following:		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	
<b>Other Requirements</b>		
Electives	<sup>1,2,3</sup>	10
<b>Program Total Credits:</b>		<b>32</b>

A minimum of 32 credits are required to complete this program.

Successful completion of a comprehensive examination is required.

- <sup>1</sup> Courses selected in consultation with advisor and graduate committee.
- <sup>2</sup> A maximum of 4 credits below 500-level may be counted toward the Electives requirement.
- <sup>3</sup> No more than a total of 6 credits of Internship, Independent Study, Group Study, and Research courses may be included in the program.