

MASTER OF SCIENCE IN TOXICOLOGY, PLAN B

Requirements Effective Fall 2026

Code	Title	Credits
Core Courses:		
ERHS 502	Fundamentals of Toxicology	3
ERHS 521	Toxicological Pathology	3
ERHS 522	Metabolism and Disposition of Toxic Agents	3
ERHS 523	Toxicological Mechanisms	3
ERHS 592C or ERHS 693C	Seminar: Toxicology Research Seminar: Toxicology	1
Toxicology Courses (select a minimum of 9 credits with the approval of advisor):^{1,2}		9
BMS 450	Pharmacology	
ERHS 446	Environmental Toxicology	
ERHS 448	Environmental Contaminants	
ERHS 504	Occupational and Environmental Toxicology	
ERHS 507A	Toxicology Toolbox: Fundamentals	
ERHS 507B	Toxicology Toolbox: Metabolism and Disposition	
ERHS 513	Environmental Carcinogenesis	
ERHS 520	Environmental and Occupational Health Issues	
ERHS 532 or PBHL 570	Epidemiologic Methods Epidemiology for Public Health	
ERHS 535 or ERHS 537A	R Programming for Research R Programming: Research I	
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 658	Environmental and Occupational Epidemiology	
Other Requirements:		
Electives ^{1,2}		8
Courses selected based upon the student's professional interests. Approval by the advisor is required.		
Examples of elective courses that complement those taken to meet program requirements include:		
BC 463 or BC 563	Molecular Genetics Molecular Genetics	
BC 465 or BC 565	Molecular Regulation of Cell Function Molecular Regulation of Cell Function	

BMS 405	Nerve and Muscle-Toxins, Trauma and Disease
BMS 409	Human and Animal Reproductive Biology
BMS 420	Cardiopulmonary Physiology
BMS 430	Endocrinology
BMS 500	Mammalian Physiology I
BMS 501	Mammalian Physiology II
BMS 545	Neuroanatomy
BMS 640	Reproductive Physiology and Endocrinology
CM 510	Introduction to Cell and Molecular Biology
ECOL 610	Ecosystem Ecology
ERHS 526	Industrial Hygiene
ERHS 596C	Group Study: Toxicology
ERHS 695C	Independent Study: Toxicology
FSHN 530	Principles of Nutrition Science & Metabolism
FW 544	Ecotoxicology
MIP 555	Principles and Mechanisms of Disease
Any additional course(s) from the Toxicology Electives list beyond the 9 credit requirement	

Program Total Credits: 30

A minimum of 30 credits are required to complete this program.

¹ A maximum of 7 credits below the 500-level may be included in the program.

² No more than a total of 6 credits of Internship, Independent Study, Group Study, and Research courses may be included in the program.

Non-Coursework Requirements:

With the consent of the Advisor and Program Director, all students must prepare a professional paper under the direction of a Toxicology faculty member that will then be presented in a defense before the student's graduate advisory committee.