

# TOXICOLOGY MINOR

This program is available at the following location:

- Corvallis

The Toxicology minor provides basic and applied science majors sufficient background for technical work in toxicology.

**Minor Code: 618**

Upon successful completion of the program, students will meet the following learning outcomes:

- Explain the core toxicological concepts of dose-response assessment, toxicokinetics, exposure assessment and chemical mechanisms of action.
- Identify the role for the science of toxicology in society and importance of risk analysis.
- Develop competency in scientific writing and communication of scientific concepts in toxicology.

Some of the courses required for the Toxicology minor have additional prerequisites or grade standards that are separate from the minor requirements.

Code	Title	Credits
<b>Required Core</b>		
TOX 360	*THE WORLD OF POISONS	3
TOX 411	FUNDAMENTALS OF TOXICOLOGY	3
ST 351	INTRODUCTION TO STATISTICAL METHODS	3-8
or ST 314	INTRODUCTION TO STATISTICS FOR ENGINEERS	
or ST 243Z & ST 244	+ELEMENTARY STATISTICS I and +ELEMENTARY STATISTICS II	
Select two courses from the following:		6
TOX 413	ENVIRONMENTAL TOXICOLOGY AND RISK ASSESSMENT	
TOX 429	TOXIC SUBSTANCES IN FOOD	
TOX 435/FES 435	*GENES AND CHEMICALS IN AGRICULTURE: VALUE AND RISK	
TOX 430	CHEMICAL BEHAVIOR IN THE ENVIRONMENT	
TOX 455	ECOTOXICOLOGY: AQUATIC ECOSYSTEMS	
TOX 480	COMPUTATIONAL TOXICOLOGY AND RISK ASSESSMENT	
TOX 490	ENVIRONMENTAL FORENSIC CHEMISTRY	

## Electives

Select one of the following tracks: 12

### Research Track

TOX 401	RESEARCH (9 credits)
Upper-division science course (3 credits)	

### Didactic Track

Select 12 credits of upper-division non-blanket science courses from any of the following subjects:<sup>1</sup>

Animal Sciences (ANS)
Applied Economics (AEC)
Atmospheric Sciences (ATS)
Biochemistry and Biophysics (BB)
Biological & Ecological Engineering (BEE)
Biological Engineering (BIOE)
Biology (BI)
Bioresource Research (BRR)
Botany and Plant Pathology (BOT)
Chemical, Biological and Environmental Engineering (CBEE)
Chemical Engineering (CHE)
Chemistry (CH)

Computer Science (CS)
Crop and Soil Sciences (CSS)
Engineering Science (ENGR)
Entomology (ENT)
Environmental Engineering (ENVE)
Fisheries and Wildlife (FW)
Food Science and Technology (FST)
Forest Ecosystems and Society (FES)
Forest Engineering (FE)
Forestry (FOR)
Geography (GEOG)
Geology (GEO)
Microbiology (MB)
Natural Resources (NR)
Nuclear Science and Engineering (NSE)
Nutrition (NUTR)
Oceanography (OC)
Plant Breeding and Genetics (PBG)
Public Health (H)
Rangeland Ecology and Management (RNG)
Soil Science (SOIL)
Toxicology (TOX)
Veterinary Medicine Biomedical (VMB)
Wood Science and Engineering (WSE)
Zoology (Z)

**Total Credits** 27-32

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Baccalaureate Core course. Applies to general education requirements for undergraduate students in a catalog year up to 2024-2025

+

Core Education course. Applies to general education requirements for undergraduate students in catalog year 2025-2026 and beyond

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No more than 6 credits can come from the same subject (i.e. BRR or AEC)

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