

ENVIRONMENTAL CHEMISTRY OPTION

TOX 413/TOX 513 ENVIRONMENTAL TOXICOLOGY AND RISK ASSESSMENT

TOX 490/TOX 590 ENVIRONMENTAL FORENSIC CHEMISTRY

Total Credits

35-41

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Baccalaureate Core Course (BCC)

Option Code: 504

This option is offered within the following major(s):

- Chemistry - College of Science (<http://catalog.oregonstate.edu/college-departments/science/chemistry/chemistry-ba-bs-hba-hbs/>)

The Environmental Chemistry option is structured to provide a quality foundation for working in government, industrial or university labs studying the behavior of chemicals in the environment. It also is suited to graduate education in chemistry or environmental chemistry. Students can earn a BS degree in Chemistry in four years while targeting their career. This option includes 11 courses in biology, microbiology, toxicology, environmental chemistry and health, soil science, and hydrology.

The Environmental Chemistry option is designed for the Track-Two BS degree in Chemistry.

Option Code: 504

The track-two core requirements are slightly modified for the Environmental Chemistry option:

Code	Title	Credits
Required for Core		
<i>Replace CH 324 with:</i>		
CH 421 & CH 422	ANALYTICAL CHEMISTRY and ANALYTICAL CHEMISTRY	
CH 461	EXPERIMENTAL CHEMISTRY II	
<i>Only one term of Inorganic Chemistry:</i>		
CH 411 or CH 412	INORGANIC CHEMISTRY INORGANIC CHEMISTRY	
Requirements		
BB 314	CELL AND MOLECULAR BIOLOGY	4
BI 221 & BI 222 & BI 223 or BI 212 & BI 213	*PRINCIPLES OF BIOLOGY: CELLS and *PRINCIPLES OF BIOLOGY: ORGANISMS and *PRINCIPLES OF BIOLOGY: POPULATIONS *PRINCIPLES OF BIOLOGY and *PRINCIPLES OF BIOLOGY	8-12
MB 302 & MB 303	GENERAL MICROBIOLOGY and GENERAL MICROBIOLOGY LABORATORY	5
ST 201 or ST 314	PRINCIPLES OF STATISTICS INTRODUCTION TO STATISTICS FOR ENGINEERS	3-4
TOX 430	CHEMICAL BEHAVIOR IN THE ENVIRONMENT	3
TOX 455	ECOTOXICOLOGY: AQUATIC ECOSYSTEMS	3
Select three courses from the following:		9-10
BI 370	ECOLOGY	
CE 514	GROUNDWATER HYDRAULICS	
CH 401	RESEARCH	
CH 692	ENVIRONMENTAL TRANSFORMATION OF ORGANIC COMPOUNDS	
CSS 305 or SOIL 205	PRINCIPLES OF SOIL SCIENCE (EOU campus only) SOIL SCIENCE	
ENVE 531	FATE AND TRANSPORT OF CHEMICALS IN ENVIRONMENTAL SYSTEMS	
ENVE 532	AQUATIC CHEMISTRY: NATURAL AND ENGINEERED SYSTEMS	
ENVE 541	MICROBIAL PROCESSES IN ENVIRONMENTAL SYSTEMS	
GEO 487	HYDROGEOLOGY	
SOIL 535	SOIL PHYSICS	
SOIL 545	ENVIRONMENTAL SOIL CHEMISTRY	