

# Environmental Chemistry Option

Environmental Sciences Undergraduate Program Revised 2004

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## Notes:

1. Students must satisfy the Environmental Sciences Basic Science Core (Box B) requirement with **PH 211 and PH 212**
2. Classes used to fulfill requirements for this option may not be counted towards the Environmental Sciences core curriculum requirements.

Class	Prerequisites*	Credit
<b>Required Courses (23 credits):</b>		
MTH 254 Vector Calculus	MTH 252	4
PH 213 General Physics	MTH 254 and PH 212	4
CH 334, 335, 336 Organic Chemistry	CH 123 or CH 223 or CH 226H	3, 3, 3
CH 390 Environmental Chemistry	One year of CH	3
CH 440 Physical Chemistry	MTH 254 and one year of CH, one year of PH	3
<b>Electives (6 credits min):</b> Select 2 courses from below		
CH 324 Quantitative Analysis	CH 123 or CH 223	4
CH 421 Analytical Chemistry	One year of CH, one year of PH. Should enroll concurrently in CH 440	3
CH 435 Structural Determination by Spectroscopic Methods	CH 336 and (CH 442 or CH 542)	3
CH 461 Experimental Chemistry II	(CH 362 or CH 362H) and CH 421 and CH 440	3
TOX 430 Chemical Behavior in the Environment	CH 331 or CH 123 and Senior standing	3
TOX 490 Environmental Forensic Chemistry	One year of CH and one term of organic CH	3
<b>TOTAL CREDITS</b>		<b>≥ 29</b>
*Check current catalog for additional prerequisites.		

**Environmental Chemistry** focuses on the basic principles that control the fate of chemicals in the environment. A bewildering variety of chemicals, an inevitable result of modern industrial civilization, are released daily; some of them persist in soil, water, or air. The extent to which these chemicals are a health hazard depends in part on where, how much, and in what form they accumulate. Students will acquire laboratory skills that will be in high demand as worldwide public concern with environmental quality increases.