

B.S. and ACS Approved Degrees in Environmental Chemistry

Requirements for the Environmental Chemistry B.S. degree program

General Chemistry	CHM 1045 & CHM 1045L; 1046 and 1046L or CHM 1050 & 1050L and 1051 & 1051L
Analytical Chemistry	CHM 3120 & 3120L; 4130 & 4130L
Organic Chemistry	CHM 2210; 2211, 2211L
Physical Chemistry	CHM 4410, 4410L; 4411, 4411L

Collateral Courses:

Calculus I, II, and III (a programming or modeling course may be substituted; consult an advisor)	MAC 2311; 2312; 2313
General Physics (calculus based)	PHY 2048C; 2049C
Two semesters of basic science including lab:	
Geology, or	GLY 2010C; 2100 or GLY 3200C
Biological Science	BSC 2010, 2010L; 2011

Advanced Courses in Chemistry of the Environment (2 required; * preferred):

CHM 4080	Environmental Chemistry
CHM 4081	Environmental Chemistry II
CHS 4100C*	Techniques of Radiochemistry
CHM 4905	Directed Individual Study (independent research)
OCC 5050	Basic Chemical Oceanography
OCC 5062	Marine Isotope Chemistry

OCC 5415	Marine Geochemistry
OCC 5416	Organic Geochemistry
OCC 5554	Atmospheric Chemistry
GLY 4240	Principles of Geochemistry

Additional Courses Required for ACS Certification:

CHM 4610, 4610L	Inorganic Chemistry and Laboratory
--------------------	------------------------------------

Other Recommended Courses (not required):

GLY 5826	Numerical Modeling of Groundwater Flow
GEO 4151	Geographic Information Processing and Systems
GEO 4330	Environmental Perception
ECP 3302	Economics of Natural Resources, Energy and the Environment
URP 4423	Introduction to Environmental Planning
GLY 5828	Chemical Hydrology
GEO 4340	Living in a Hazardous Environment

Minor: The required calculus and physics courses constitute an interdisciplinary minor, and no other minor is necessary. If Calculus III is taken, a minor in mathematics is also completed.