ENVIRONMENTAL CHEMISTRY, B.S.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 229	Calculus/Analytic Geom I (CT)	5
CHM 211 & CHM 217	Principles of Chemistry I and Principles of Chem Lab I	5
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive (CHM 357 or 358)		3
Writing Intensive		3
Multicultural or International		3
CHM 491 or CHM 490	Capstone Experience Internship	1-6
Major-Specific		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
CHM 305	Research Methods Chem	1
CHM 365	Introductory Biochemistry	3
Select one of the following:		4
CHM 357	Physical Chemistry: Quantum (WI)	
CHM 358	Physical Chemistry: Thermo. (WI)	
CHM 411	Modern Instrument Methods	4
Environmental Analytical Chemistry (Milestone)		3
CHM 491 or CHM 490	Capstone Experience (C) Internship	2
CHM 432	Chemistry Seminar	0
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
BSC 120	Principles of Biology	4
BSC 121	Principles of Biology	4
BSC 320	Principles of Ecology	4
BSC 445	Microbial Ecology	3
GEO 422	Environmental Geography	3
GLY 200	The Dynamic Earth	3
NRE 322	Assess I: Terrestrial Systems	4
NRE 323	Assessment II: Aquatic Ecology	4
Statistics Elective		3
Environ Science Requirement		
Select at least 8 credits from a maximum of two departments of the following: [1]		8
BSC 431	Limnology	
CHM 467	Intermediate Biochemistry	
GLY 320L	Geology Lab Techniques	
GLY 420	Principles of Geochemistry	
GLY 455	Hydrogeology	
GLY 455L	Hydrogeology Laboratory	
GLY 456	Environmental Geology	
NRE 320	Nature Enviro Problems	
NRE 321	Resol Environ Problems	
Free Elective		3

[1] Students wishing a physical science emphasis may take all of the Geology electives and not take either BSC 445 Microbial Ecology or NRE 323 Assessment II: Aquatic Ecology.

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- In addition to the Core General Education requirements, the College of Science requires 3 hours of Calculus, and 40 hours of upper level credit.
- Coursework listed as “elective” may vary for each student. Students are encouraged to use elective hours toward a or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the University writing intensive requirement.
- Course offerings and course attributes are subject to change semesters. Please consult each semesters schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate mathematics and science courses.
- A Grade Point Average of 2.0 is required

a. overall,
b. at MU,
c. in all required Chemistry courses,
d. in all Chemistry courses, and
e. in all required Chemistry courses taken at MU.