B.S. in Environmental Science & Chemistry (Comprehensive Major)
FOUR YEAR CURRICULUM GUIDE
Environmental Science Program / Department of Chemistry, Geology, Physics REV:7/11/24

Year 1	Fall Semester			Freshman:	Spring Semester	
Course #	**Title**	**Cr.**		**Course #**	**Title**	**Cr.**
ENG 101	Composition I (Core 1)	3		EVS 276	Environmental Sci. Seminar	1
CHEM 103	General Chem (fa only, Core 2)	4		ENG 102	Composition II (Core 5)	3
MATH 205	The Calculus I (fa only, Core 3)	5		CHEM 104	General Chem (sp only, Core 6)	4
CORE/CCI*	Inst. Requirement (Core 4)	3		MATH 206	The Calculus II (sp only)	5
				CORE/CCI*	Inst. Requirement (Core 7)	3
	Total	**15**			**Total**	**16**

Year 2	Fall Semester			Year 2	Spring Semester	
Course #	**Title**	**Cr.**		**Course #**	**Title**	**Cr.**
CHEM 307	Organic Chem I (fa only)	3		CHEM 308	Organic Chem II (sp only)	3
CHEM 307L	Organic Chem I Lab (fa only)	1		CHEM 308L	Organic Chem II Lab (sp only)	1
PHYS 205	University Physics (fa only)	5		PHYS 206	University Physics (sp only)	5
BIO 201	Molec./Cellular Basis of Life	4		BIO 202	Organisms, Adap. & Divers.	4
CORE	Inst. Requirement (Core 8)	3		CORE	Inst. Requirement (Core 9)	3
	Total	**16**			**Total**	**16**

Year 3	Fall Semester			Year 3	Spring Semester	
Course #	**Title**	**Cr.**		**Course #**	**Title**	**Cr.**
CHEM 411/L	Quantum Mechanics w. lab (fa odd) or CHEM 4XX elective (1) (fa even)	3-4		CHEM 412/L	Thermodynamics w. lab (sp even) or CHEM 4XX elective (2) (sp odd)	3-4
MATH	MATH 305** (Calc. III, fa only) or Inst. Requirement (Core 10)	3-4		CORE	Institutional Requirement (Core 10) or MATH 307** Linear Alg., (sp only)	3
CHEM 320	Quantitative Analysis (fa only)	4		CORE	Market Fundamentals(Core 12)	3
GEOL 101	Physical Geology or Applied Ethics – Environment (Core 11 option if 3 credits)	1-4		CORE	Institutional Requirement (Core 13)	3
CORE	Inst. Requirement (Core 12)	3		CORE	Institutional Requirement (Core 14)	3
	Total	**14-19**			**Total**	**15-16**

Year 4	Fall Semester			Year 4	Spring Semester	
Course #	**Title**	**Cr.**		**Course #**	**Title**	**Cr.**
CHEM 4XX	CHEM Elective (1) (fa even) or 411/L (fa odd)	3-4		CHEM 4XX	CHEM elective (2) (sp odd) or 412/L (sp even)	3-4
EVS/CHEM ELECTIVE	EVS/CHEM ELECTIVE***	3-4		EVS 476/GPS*	Issues in EVS (sp only, Core 16)	3
ECON 101	Institutional Requirement (Core 15)	3		ELECTIVE	General Elective	3
PHIL 280B	Applied Ethics – Environment (Core 11 option if 3 credits) or GEOL 101 Physical Geology	1-4		ELECTIVE	General Elective	3
ELECTIVE	General Elective	3		ELECTIVE	General Elective (optional)	3
	Total	**13-18**			**Total**	**12-16**

B.S. in CHEMISTRY/ENVIRONMENTAL SCIENCE (Comprehensive Major) 7/2024
2024-25 REPRESENTATIVE FOUR YEAR CURRICULUM GUIDE
ENVIRONMENTAL SCIENCE PROGRAM & DEPARTMENT OF CHEMISTRY/GEOLOGY/PHYSICS

Students must have at least 120-121 credits to graduate, depending on choices of MATH, EVS/CHEM, and 400-level CHEM electives.

This minimum curriculum includes 9 hours of general electives.

**The Critical Cultural Inquiry (CCI) requirement can be completed by either one value-added foreign language course, an approved study-away or study abroad experience, or one CCI course. One slot should be allotted for CORE/CCI, but students completing the requirement with study abroad, can substitute an elective if necessary to reach 120 hours. If students are continuing a language study, it is preferable to take the course during the first semester of the first year.*

**Math – MATH 205/206 and either MATH 305 or 307 are required for major.

***Options for EVS/CHEM ELECTIVE include EVS 324 and BIO 310, 330, 411 or 412, and GEOL 210, 309 and 403.

The ACS-Certified Chemistry/Environmental Science major requires CHEM 416, CHEM 420, and 6 additional hours at the 400-level including CHEM 497; GEOL 403 may substitute as a 400-level Chemistry elective (by permission). Meet with your advisor for further details.

Students planning to attend graduate school should plan on conducting an independent research project (CHEM 497) during their four years, or, alternatively, participate in a summer research program. Develop a plan for this with your academic adviser.