

**Required Curriculum for a B.S. in Environmental Science**  
**With a Concentration in Earth Science**

<b><u>First Semester</u></b>	<b><u>Cr.</u></b>	<b><u>Second Semester</u></b>	<b><u>Cr.</u></b>
WR13100 <sup>+</sup> Composition/University Seminar	3	University Requirement/University seminar	3
MATH 10350* Calculus I	4	MATH 10360* Calculus II	4
CHEM 10171* General Chemistry I + Lab	4	CHEM 10172* Organic Chemistry I + Lab	4
BIOS 10161 Introduction to Biology I	4	BIOS 10162 Introduction to Biology II	4
Physical Education/Life Skills or ROTC	<u>1</u>	Physical Education/Life Skills or ROTC	<u>1</u>
	16		16
<b><u>Third Semester</u></b>	<b><u>Cr</u></b>	<b><u>Fourth Semester</u></b>	<b><u>Cr</u></b>
CE 20110 Planet Earth + Lab	4	CE 20300 Global Change, Water & Energy	3
BIOS 30312 Ecology + Lab (BIOS 31312)	4	CE 20320 Environmental Aquatic Chemistry	3
Language I	3	Chemistry Elective (e.g. 20273 + lab)	4
SC40491 Topics in Environmental Science	3	Language II	3
University Requirement Course <sup>***</sup>	<u>3</u>	University Requirement Course <sup>+</sup>	<u>3</u>
	17		16
<b><u>Fifth Semester</u></b>	<b><u>Cr.</u></b>	<b><u>Sixth Semester</u></b>	<b><u>Cr.</u></b>
CE 20520 Environmental Mineralogy	3	CE 30540 Petrology of Earth Materials + Lab (CE31540)	4
CE 30500 Geomorphology	3	University Requirement Course <sup>+</sup>	3
Physics I + Lab	4	CE 30530 Sedimentology and Stratigraphy	3
CE 45300 Fall Field Trip	1	Physics II + Lab	4
Language III	3	CE 45200 Spring Field Trip	1
	<u>14</u>		<u>15</u>
<b><u>Seventh Semester</u></b>	<b><u>Cr</u></b>	<b><u>Eighth Semester</u></b>	<b><u>Cr.</u></b>
CE 40381 Environmental Isotope Geochem.	3	CE 30560 Dynamic Earth	3
CE 40300 Geochemistry	3	BIOS 40411 Biostatistics + tutorial	4
General Elective	3	General Elective	3
University Requirement Course <sup>+</sup>	3	CE 40350 Environmental Microbiology	3
University Requirement Course <sup>+</sup>	<u>3</u>	University Requirement Course <sup>+</sup>	33
	15		<u>16</u>

***REQUIRED CREDITS: 124***

<sup>+</sup>University requirements include: 2 PHIL courses, 2 THEO courses, 1 HIST course, 1 course in the Social Sciences (ANTH, ECON, POLS, PSY, or SOC), and 1 Fine Arts or Literature course. Note that one of the PHIL or THEO courses must count as a relevant course in Ethics.

\* Or higher level equivalent

\*\*The curriculum requires proficiency through Intermediate Level in a language.

\*\*\* The Social Science Requirement must be fulfilled by taking ECON 10010 or 20010 (Principles of Microeconomics)

University Requirement course credits = 24

Language credits = 9

Non-Earth Science Required Course credits = 47

Earth Science required course credits = 38

Free Electives = 4

Phys. Ed = 2

**Total = 124**

**Note:** CE30500 Geomorphology and CE40381 Environmental Isotope Geochemistry are offered every OTHER year in Fall semester, so their order can be switched. Similarly, CE30530 Sedimentation and Stratigraphy and CE30560 Dynamic Earth are offered every OTHER year in Spring semester.

**Course Distribution:**

1) University Requirement Courses: 8 courses/24 credits, including: 2 PHIL courses, 2 THEO courses, 1 HIST course, 1 course in the Social Sciences (ANTH, ECON, POLS, PSY, or SOC), 1 Fine Arts or Literature course, and Composition/University Seminar.

2) Language credits: 3 courses/9 credits – but placement and AP credit can decrease this total.

3) Non-Earth Science required courses: 12 courses/47 credits

**1<sup>st</sup> Semester:**

MATH 10350\* Calculus I

CHEM 10171\* General Chemistry I + Lab

BIOS 10161 Introduction to Biology I

**2<sup>nd</sup> Semester:**

MATH 10360\* Calculus II

CHEM 10172\* Organic Chemistry I + Lab

BIOS 10162 Introduction to Biology II

**3<sup>rd</sup> Semester:**

BIOS 30312 Ecology + Lab (BIOS 31312)

SC40491 Topics in Environmental Science

**4<sup>th</sup> Semester:**

BIOS 40411 Biostatistics + tutorial

Chemistry Elective (e.g. 20273 + lab)

**5<sup>th</sup> Semester:**

Physics I + Lab

**6<sup>th</sup> Semester:**

Physics II + Lab

4) Earth Science required courses: 13 courses/38 credits

CE 20110 Planet Earth + Lab

CE 20300 Global Change, Water & Energy

CE 20520 Environmental Mineralogy

CE 30530 Sedimentology and Stratigraphy

CE 45300 Fall Field Trip

CE 30500 Geomorphology

CE 30540 Petrology of Earth Materials + Lab (CE31540)

CE 40350 Environmental Microbiology

CE 45200 Spring Field Trip

CE 40381 Environmental Isotope Geochemistry

CE 40300 Geochemistry

CE 30560 Dynamic Earth

CE 20320 Environmental Aquatic Chemistry