

B.S. Environmental Science: Geology Program Requirements

The major in Environmental Science emphasizes student capacity to engage with interdisciplinary environmental challenges in both the field and laboratory. The major prepares students for graduate work or for a career in professions such as Environmental Consulting, Laboratory Analysis, Water and Wastewater Management, Geospatial Information Technology, Natural Resource Management and Remediation, and Wildlife Conservation. Students majoring in Environmental Science choose from one of the following tracks: Biology, Chemistry, Geography, Geology, and Regenerative Organic Agriculture.

Note that all students must achieve 120 undergraduate credits and a minimum 2.0 overall GPA to graduate. The final GPA requirement for Environmental Science Geology is 2.0.

Required Environmental Science Core Courses – 20 to 21 credits

A grade of C or better for BIOL 104 is required to be counted as a prerequisite.

EVSC 100 Introduction to Environmental Science (3 credits)
EVSC 210 Environmental Geology (3 credits)
EVSC 220 Environmental Analysis (3 credits)
EVSC 222 Environmental Biology *or* BIOL 244 Ecology (3-4 credits)
EVSC 270 Applied Environmental Science (3 credits)
GEOG 274 Intro. to Geographic Information Systems (3 credits)
EVSC 380 Senior Seminar (2 credits)

Geology Track – 17 credits

GEOL 100 Physical Geology (4 credits)
GEOL 102 Historical Geology (4 credits)
GEOL 200 Field Geology (3 credits)
GEOL 358 General Geophysics (3 credits)
GEOL 362 Hydrogeology (3 credits)

Other Required Courses – 22 to 23 credits

BIOL 106 Introduction to Zoology *or* BIOL 108 Introduction to Botany (4 credits)
CHEM 100 General Chemistry I (4 credits)
CHEM 214 Organic Chemistry I (4 credits) *or* CHEM 204 Fundamentals of Organic Chemistry (4 credits)
GEOG 10 Elements of Physical Geography (3 credits)
MATH 106 Trigonometry (3 credits) *or* MATH 115 Precalculus (3 credits) *or* MATH 181 Calculus I (4 credits)
PHYS 42 General Physics II (4 credits) *or* PHYS 102 Physics II (4 credits)

Directed General Education Courses – 12 credits

These courses are required for the major and satisfy the general education requirement “Understanding Science and Technology.”

BIOL 104 Principles of Biology – Category C1 (4 credits) (*Grade of C or better required*)

CHEM 102 General Chemistry II – Category C2 (4 credits)

PHYS 40 General Physics I (4 credits) *or* PHYS 100 Physics I – Category C3 (4 credits)

University Electives – 14 to 16 credits

Program Plan Code: BS_EVSC_GEOL

Effective Date: Fall 2024

KU B.S. Environmental Science: Geology Track Check Sheet

Student Name:

Student ID Number:

This check sheet provides a mechanism for students and advisors to keep track of a student's progress in the program. Please refer to the program requirements for more details regarding options.

Note that all students must achieve 120 undergraduate credits and a minimum 2.0 overall GPA to graduate. The final GPA requirement for Environmental Science: Geography is 2.0.

Environmental Science Core Courses – 20 to 21 credits

EVSC 100 Introduction to Environmental Science	3 credits	Grade:
EVSC 210 Environmental Geology	3 credits	Grade:
EVSC 220 Environmental Analysis	3 credits	Grade:
EVSC 222 Environmental Biology or BIOL 244 Ecology	3-4 credits	Grade:
EVSC 270 Applied Environmental Science	3 credits	Grade:
GEOG 274 Introduction to Geographic Information Systems	3 credits	Grade:
EVSC 380 Senior Seminar	2 credits	Grade:
Total Credits	20-21 total credits	

Geology Track Courses – 17 credits

GEOL 100 Physical Geology	4 credits	Grade:
GEOL 102 Historical Geology	4 credits	Grade:
GEOL 200 Field Geology	3 credits	Grade:
GEOL 358 General Geophysics	3 credits	Grade:
GEOL 362 Hydrogeology	3 credits	Grade:
Total Credits	17 total credits	

Other Required Courses – 22 to 23 credits

BIOL 106 Introduction to Biology or BIOL 108 Introduction to Botany	4 credits	Grade:
CHEM 100 General Chemistry I	4 credits	Grade:
CHEM 214 Organic Chemistry or CHEM 204 Fundamentals of Organic Chemistry	4 credits	Grade:
GEOG 10 Elements of Physical Geography	3 credits	Grade:
MATH 106 Trigonometry or MATH 115 Precalculus or MATH 181 Calculus I (4 credits)	3-4 credits	Grade:
PHYS 42 General Physics II (4 credits) or PHYS 102 Physics II	4 credits	Grade:
Total Credits	22-23 total credits	

Directed General Education Courses

BIOL 104 Principles of Biology (Category C1)	4 credits	Grade:
CHEM 102 General Chemistry II (Category C2)	4 credits	Grade:
PHYS 40 General Physics I or PHYS 100 Physics I (Category C3)	4 credits	Grade:

University Electives – 14 to 16 credits

Course 1:	credits	Grade:
Course 2:	credits	Grade:
Course 3:	credits	Grade:
Course 4:	credits	Grade:
Course 5:	credits	Grade:
Course 6:	credits	Grade:
Total Credits	14-16 total credits	

Summary of Graduation Requirements

Total credits from major courses	59
Total credits from general education program	45
Total credits from university electives	16
Minimum total credits to graduate	120
Minimum overall GPA	2.0
Minimum GPA in major program	2.0

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B.S. Environmental Science: Geology Track 8-Semester Planner

Student Name:

Student ID Number:

Each semester listed below provides information including course categories, typical credit hours (CH.), and space to add specific course selections. This planner is a suggested path. Consult with your advisor regarding your unique plans and interests as you make choices about your schedule.

First Semester Plan

Major	EVSC 100	3 CH.	Selection:
Major	GEOG 10	3 CH.	Selection:
Major	GEOL 100	4 CH.	Selection:
Major	MATH 106	3 CH.	Selection:
Gen Ed	FYSM 100	3 CH.	Selection: FYSM100 -
Total		16 CH.	

Second Semester Plan

Major	GEOL 102	4 CH.	Selection:
Major	CHEM 100	4 CH.	Selection:
Gen Ed	Category A3	3 CH.	Selection:
Gen Ed	Category A1	3 CH.	Selection:
Total		14 CH.	

Third Semester Plan

Gen Ed	BIOL 104 (Category C1)	4 CH.	Selection:
Gen Ed	PHYS 40 or PHYS 100 (Category C3)	4 CH.	Selection:
Gen Ed	CHEM 102 (Category C2)	4 CH.	Selection:
Major	EVSC 270	3 CH.	Selection:
Total		15 CH.	

Fourth Semester Plan

Major	BIOL 106 or BIOL 108	4 CH.	Selection:
Major	EVSC 220	3 CH.	Selection:
Major	PHYS 42 or PHYS 102	4 CH.	Selection:
Gen Ed	Category D	3 CH.	Selection:
Gen Ed	Category B	3 CH.	Selection:
Total		17 CH.	

Fifth Semester Plan

Major	CHEM 214	4 CH.	Selection:
Major	GEOG 274	3 CH.	Selection:
Major	EVSC 210	3 CH.	Selection:
Major	GEOL 200	3 CH.	Selection:
Elective	University Elective	1-3 CH.	Selection:
Total		16 CH.	

Sixth Semester Plan

Major	EVSC 222	3 CH.	Selection:
Major	GEOL 362	3 CH.	Selection:
Gen Ed	Category B	3 CH.	Selection:
Gen Ed	Category A2	3 CH.	Selection:
Total		12 CH.	

Seventh Semester Plan

Major	GEOL 358	3 CH.	Selection:
Gen Ed	Category B	3 CH.	Selection:
Gen Ed	Category D	3 CH.	Selection:
Elective	University Elective	1-3 CH.	Selection:
Elective	University Elective	1-3 CH.	Selection:
Total		15 CH.	

Eighth Semester Plan

Major	EVSC 380	2 CH.	Selection:
Gen Ed	Category A4	3 CH.	Selection:
Gen Ed	Category D	3 CH.	Selection:
Elective	University Elective	1-3 CH.	Selection:
Elective	University Elective	1-3 CH.	Selection:
Total		14 CH.	

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