



Major Map: Environmental Science BS

Catalog Year: 2012-2013

http://www.umkc.edu/catalog/Bachelor_of_Science_Environmental_Science.html

The following is a sample course of study. It is the Student's responsibility to ensure that all program requirements are met. This guide is not a substitute for academic advisement.

Your path to graduation may vary based on factors such as college credit you earned while in high school, transfer work from other institutions of higher learning and placement in Mathematics. You are responsible for checking prerequisites to any courses.

Course Subject and Title	Hrs.	Can be Upper Division	Transfer Course	Minimum Grade if Required	Date Completed	Final Grade	Pre-requisites met	Additional Critical Tracking Notes
Fall Semester Year 1: 15 hours								
First Year Writing—GER A.1.	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Fine Arts—GER F.3a. <or> other GER	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
A&S 100—GER D.	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Constitution—GER F.1a. <or> other GER	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Elective hours	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Spring Semester Year 1: 14 hours								
Oral Argumentation—GER A.5 <or> other GER	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Humanities—GER F.3b. <or> other GER	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
First-level Math—GER B.1. <or> other GER	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Elective hours in Math/Science for BS (Science recommended)	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Elective hours	2	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Summer Semester Year 1								
May use summer semester to lighten fall and spring course loads.								
Fall Semester Year 2: 16 hours								
Sophomore-level Writing course—GER A.2.	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
BIOL 108/108L, General Biol I w/lab (GER F.2.)	4/1	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
CHEM 211/211L, General Chem I w/lab (GER F.2.)	4/1	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Elective hours in Math/Science for BS (Science recommended)	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Spring Semester Year 2: 16 hours								
BIOL 109/109L, General Biol I w/lab	4/1	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	Take and pass WEPT—GER A.3.
CHEM 212R/212LR, General Chem I w/lab	4/1	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
STAT 235, Elementary Statistics (GER B.2.)	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Elective hours in Math/Science for BS (Science recommended)	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Summer Semester Year 2								
May use summer semester to lighten fall and spring course loads.								
Fall Semester Year 3: 15 hours								
ENVSC 110R/110L, Understanding the Earth with Lab (GER F.2.)	3/2	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
GEOG 215, Intro to Weather and Climate	4	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
GEOG 250, Field Methods	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Natural Science (NS) elective for major	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Spring Semester Year 3: 14 hours								
ENVSC 210, Environmental Issues (GER F.1b.)	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	Take the EPP exam.
Ethics, Jurisprudence, and Culture (E) elective for major	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Elective hours in Math/Science for BS (Science recommended)	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Social Science (SS) elective for major (GER F.1b.)	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Elective hours	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Summer Semester Year 3								
May use summer semester to lighten fall and spring course loads.								
Fall Semester Year 4: 15 hours								
NS, SS, or E elective for major	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	Apply for graduation.
Philosophy—GER E.2. <or> other GER	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Cultural Perspectives—GER C.2. <or> other GER	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Elective hours in Math/Science for BS (Science recommended)	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Elective hours	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Spring Semester Year 4: 15 hours								
ENVST 499WI, Env Stds Practicum (GER. A.4.)*	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
ENVST 496, Internship (recommended)	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Cluster—GER F.4., Environmental Sustainability	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Literature—GER E.1. <or> other GER	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Elective hours in Math/Science for BS (Science recommended)	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	



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*Students may also take Geography 499WI, Geology 499WI or Geog 403WI to meet this requirement.

Non-course requirements

Written English Proficiency Test (WEPT)
ETS Proficiency Profile (EPP) exam

Met

The School reserves the right to make changes in courses, degree requirements and course schedules without notice.

Students are expected to maintain a quality of achievement significantly above minimum UMKC standards for degree work. Individual student progress will be monitored throughout the program. Satisfactory progress is required of all students for retention in the program. Students are expected to maintain academic standards, perform satisfactorily in courses, refrain from academic dishonesty, comply with the established University and teacher education timetables and requirements, and refrain from unethical or unprofessional behavior or behaviors that obstruct the training process or threaten the welfare of the student or others. Other circumstances involving student behavior will be addressed by the faculty on an individual basis.

Graduation Requirements Summary:

Total Hours (120 minimum)	Total Upper-level (300/400) Hours (36 minimum)	Final Consecutive Hours at UMKC (30 hours minimum)	Major GPA (2.0 minimum)	University of Missouri GPA (2.0 minimum)

All students completing a Bachelor of Arts or a Bachelor of Science in the College of Arts and Sciences must successfully complete the following requirements in order to graduate:

Please see this website for a detailed listing of approved courses to fulfill the following General Education Requirements (GER):

http://www.umkc.edu/catalog/College_of_Arts_and_Sciences_General_Education_Requirements.html#192793

A. Communication (12 credit hours)

1. First Year Writing course
2. Sophomore-level Writing Intensive course
3. Passage of the UMKC Written English Proficiency Test (WEPT), the pre-requisite for any Junior/Senior-level (300/400) Writing Intensive course
4. Junior/Senior-level (300/400) Writing Intensive (WI) course
5. Oral argumentation course

B. Mathematical, Symbolic and Logical Reasoning (6 credit hours minimum)

1. First-level Mathematics course or demonstrated competency equivalent to four units (years) of high school math, beginning with Algebra I or higher
2. Second-level Mathematics course requiring extensive use of mathematical, symbolic or logical reasoning

C. Foreign Language and Culture (16 credit hours)

1. Three semesters of the same foreign language, required for all B.A. degrees (but not for B.S. degrees, as of Spring 2002)
2. Cultural Perspectives of an interdependent global environment

D. Computer and Information Technology (3 credit hours)

Competence equivalent to a programming course or software application course that includes substantial computer experience

E. Literature and Philosophy (6 credit hours)

1. Literature course
2. Philosophy course

F. Distribution Requirements for General Education

1. Social and Behavioral Sciences (three courses, 9 hours), chosen from at least two different departments:
 - a. Constitution Requirement—One course covering the United States Constitution and the Missouri State Constitution
 - b. Distribution Electives—Two courses from the social and behavioral sciences
2. Physical & Biological Sciences (two courses, 8 hours minimum, including one lab component)
3. Humanities and Fine Arts (two courses, 6 hours):
 - a. Fine Arts course
 - b. Humanities course
4. Interdisciplinary Cluster Course (one course, 3 hours). Every student is required to complete a junior/senior interdisciplinary cluster course.

A maximum of 3 hours of one-credit activity courses in physical education may be applied toward the 120 total minimum

All students completing a Bachelor of Science degree in Environmental Science must meet the following conditions:

- Students must take the following core courses: Envsc 110R/110L, Envsc 210, Geog 215, Geog 250 (or 251), and Envst 499WI (or Geog 499WI or Geol 499WI or Geog 403WI).
- Students must take the following supporting sciences: Biol 108/108L, Biol 109/109L, Chem 211/211L, Chem 212R/212LR, and Math 235.
- Students must take four courses in the following elective areas, including at least one from each category: Natural Science (NS), Social Science (SS), and Ethics, Jurisprudence and Culture (E). The specific courses that fall under these categories can be found at: http://www.umkc.edu/catalog/Bachelor_of_Science_Bachelor_of_Arts_Environmental_Science.html
- Students must take at least 60 credits of combined math and science in order to earn a B.S. degree, but are not required to take any foreign language.
- Environmental Science majors seeking a B.S. with a *geosciences emphasis* must take a minimum of an additional 12 credit hours in geology or physical geography in addition to the required core and elective courses above.