

## Major Map: Environmental Science B.S.

### First-time College Students

Catalog Year: 2013-2014

#### Four-Year Graduation Plan - Courses and Critical Benchmarks

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. **All incoming freshmen must develop an academic plan (which maps out all courses needed to graduate within your intended major/degree). Your academic advisor is available to meet with you and create your specific plan.**

Your path to graduation may vary slightly 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 of checking prerequisites to any courses. Critical Courses (and Min. Grades as noted below) provide feedback regarding major fit and help indicate the likelihood of successful completion of chosen academic program and degree.

Mathematics: Math 110 or MATH 116, or 200-level MATH/STAT Foreign Language Requirement: No Free Elective Hours: 3-18

Critical Course or Benchmark ◆	Course Subject, Number, and Title and Academic Plan <b>Benchmarks</b> <b>Bold = UMKC General Education Core Requirement</b> *Prerequisite May Be Required **Co-Requisite Enrollment Required	Hours	Min. Recommended Grade	Notes
<b>Fall Semester Year 1: 16 hours</b>				
	<b>**Anchor I: Reasoning and Values</b> – Click for Options	3		ENV-SCI 110R satisfies <b>Focus B - Scientific Reasoning &amp; Quantitative Analysis Requirement</b> .  Math Entrance Exam required prior to enrollment in MATH 110 or any 200+ MATH/STAT.  MATH 110: College Algebra OR any 200 or higher-level MATH/STAT course fulfills the CAS Math Requirement and counts toward the CAS Science & Math Requirement.
	<b>**Discourse I: DISC 100 – Reasoning and Values</b> (Speech and Writing)	3		
◆	ENV-SCI 110R: Understanding the Earth ( <b>Focus B</b> )	3		
◆	ENV-SCI 110L: Understanding the Earth	2		
◆	BIOLOGY 108: General Biology I ( <b>Focus Elective</b> ) OR CHEM 211: General Chemistry I (CAS Science & Math Requirement)	4	C	
◆	BIOLOGY 108L: General Biology I Laboratory OR CHEM 211L: General Chemistry I Laboratory (CAS Laboratory Requirement)	1	C	
◆	Complete 12 term hours minimum toward degree Earn minimum 2.000 term GPA Earn minimum 2.000 cumulative UM GPA			
<b>Spring Semester Year 1: 14 hours</b>				
	<b>**Anchor II: Culture and Diversity</b> – Click for Options	3		POL-SCI 210, HIST 1100 or 1101 fulfill <b>Focus C</b> as well as the Missouri Constitution requirement.
	<b>**Discourse II: DISC 200 – Culture and Diversity</b> (Speech and Writing)	3		
◆	BIOLOGY 108: General Biology I ( <b>Focus Elective</b> ) OR CHEM 211: General Chemistry I (CAS Science & Math Requirement)	4	C	
◆	BIOLOGY 108L: General Biology I Laboratory OR CHEM 211L: General Chemistry I Laboratory	1	C	
	MATH 100: Intermediate Algebra (no credit) OR MATH 110: College Algebra OR	3		

	*MATH/STAT 200+ – Click for Options				
◆	Complete Discourse I and Anchor I Complete 12 term hours minimum toward degree Complete 28 total hours minimum toward degree Earn minimum 2.000 term GPA Earn minimum 2.000 cumulative UM GPA				
Summer Semester Year 1					
				May use summer semester ensure completion of 30 hours per academic year or to lighten fall and spring course loads.	
Fall Semester Year 2: 17 hours					
◆	ENV-SCI 210: Issues in Environmental Science (offered in fall only)	3	B	Take the <b>RooWriter Writing Assessment</b> the semester immediately following Discourse II and at least a semester before registering for a Writing Intensive course.	
	<b>Focus C – Human Values &amp; Ethical Reasoning</b> – Click for Options (May choose Focus C Course to also fulfill MO Constitution Requirement)	3	C		
	STAT 235: Elementary Statistics (CAS Science & Math Requirement) OR Electives in Math or Science (for BS)	3			
	BIOLOGY 109: General Biology II OR *CHEM 212R: General Chemistry II	4			
	BIOLOGY 109L: General Biology II Laboratory OR *CHEM 212LR: General Chemistry II Laboratory	1			
	<b>Focus A – Arts &amp; Humanities</b> – Click for Options	3			
◆	Complete 12 term hours minimum toward degree Earn minimum 2.000 term GPA Earn minimum 2.000 cumulative UM GPA				
Spring Semester Year 2: 16-17 hours					
	2XX/3XX/4XX: Elective in Social Science (SS), Natural Science (NS) or Ethics, Jurisprudence, and Culture (E) – Click for Options	3		At least one course is required from each of the three divisions of learning: Social Science (SS), Natural Science (NS) or Ethics, Jurisprudence, and Culture (E)	
◆	*CHEM 212R: General Chemistry II (if not already taken above) OR BIOLOGY 109: General Biology II OR GEOG 360: Principles of Biogeography (spring only)	4	C		
◆	*CHEM 212LR: General Chemistry II Laboratory (if not already taken above) OR BIOLOGY 109L: General Biology II Laboratory (only take one of these if BIOLOGY 109 or CHEM 212R is also taken)	0-1	C		
	CAS Arts & Humanities Requirement – Click for Options	3			
	Missouri Constitution course (if not fulfilled by above) – Click for Options OR other CAS Social & Behavioral Sciences Requirement – Click for Options	3			
	Electives in Math or Science (for BS)—Science recommended	3			
◆	Complete Discourse II and Anchor II Complete 12 term hours minimum toward degree Complete 60 total hours toward degree Earn minimum 2.000 term GPA Earn minimum 2.000 cumulative UM GPA				

Summer Semester Year 2			
Fall Semester Year 3: 16 hours			
	<b>Discourse III: Civic and Community Engagement</b>	3	
	<b>Anchor III: Civic and Community Engagement –</b> Recommend: GEOLOGY 327: Archaeology of Ancient Disasters	3	
	GEOG 215: Intro to Weather and Climate OR GEOG 319: Synoptic Meteorology	4	
	GEOLOGY 250L: Field Methods in Earth and Environmental Science (fall only) OR Electives in Math or Science (for BS)—Science recommended	3	
	CJC 363: Introduction to Statistics in Sociology/Criminal Justice (if STAT 235 not fulfilled above) OR Free Elective	3	
◆	Complete RooWriter Writing Assessment Complete 12 term hours minimum toward degree Earn minimum 2.000 term GPA Earn minimum 2.000 cumulative UM GPA		
Spring Semester Year 3: 15-16 hours			
	2XX/3XX/4XX: Elective in Social Science (SS), Natural Science (NS) or Ethics, Jurisprudence, and Culture (E) – Click for Options	3-4	
	GEOLOGY 251: Field Methods in Earth and Environmental Science: Off-campus (spring only—take if GEOLOGY 250L not taken above) OR Electives in Math or Science (for BS)—Science recommended	3	
	CAS Social & Behavioral Sciences Requirement - Click for Options (if not fulfilled by SS elective outside department) OR Free Elective	3	
	CAS Arts & Humanities – Click for Options	3	
	Electives in Math or Science (for BS)—Science recommended	3	
Summer Semester Year 3			
Fall Semester Year 4: 12-14 hours			
	2XX/3XX/4XX: Elective in Social Science (SS), Natural Science (NS) or Ethics, Jurisprudence, and Culture (E) – Click for Options	3-4	Apply for graduation and complete Final Degree Audits for the following: UMKC General Education Core, CAS Degree Requirements, Major Requirements, and/or Minor Requirements.
	2XX/3XX/4XX: Elective in Social Science (SS), Natural Science (NS) or Ethics, Jurisprudence, and Culture (E) – Click for Options	3-4	
	Electives in Math or Science (for BS), if needed—Science recommended Or Free Elective	3	Take the ETS Proficiency Profile (EPP) exit exam.
	Electives in Math or Science (for BS), if needed—Science recommended Or Free Elective	3	
Spring Semester Year 4: 10-13 hours			

	⚙️ ENV-STDY 499WI: Environmental Studies Practicum (CAS Writing Intensive Requirement)	3		In combination with required upper-level courses, take enough Free Elective hours at the 300/400-level to meet the minimum requirement of 36 upper-level credit hours.
	ENV-STDY 496: Internship (Recommended) OR Free Elective	3		
	Electives in Math or Science (for BS), if needed—Science recommended Or Free Elective	4		
	<i>Free Elective (only take these credits if needed to reach 120 minimum hours)</i>	0-3		⚙️ GEOG 499WI, GEOLOGY 499WI, OR GEOG 403WI may be substituted for ENV-STDY 499WI

**Non-course requirements**

RooWriter Writing Assessment  
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)	Totals Hrs at UMKC (30 hours minimum)	Upper-level Hours (36 minimum)	Major GPA (2.0 Minimum)	UMKC GPA

All students completing an undergraduate education degree must meet the following conditions in order to graduate and be recommended for graduation or certification:

- [list of requirements as stated in the catalog pertaining to minimum GPA, capstone coursework, additional licensure exams, etc.]