



## Major Map: Geology BS

Catalog Year: 2010-2011

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
<b>Fall Semester Year 1: 16-18 hours</b>								
GEOL 220/220L, Gen Geology with Lab (GER F.2.)	3/2	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
CHEM 211/211L, Gen Chemistry I with Lab (GER F.2.)	3/2	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
First Year Writing—GER A.1. <or> A&S 100—GER D.	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Math 120, Precalculus—GER B.1. (if needed) <or> Math 210, Calculus—GER B.2.	3-5	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
<b>Spring Semester Year 1: 15-16 hours</b>								
GEOL /GEOG 2xx/3xx, Elective for major	3-4	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
CHEM 212R/212LR, Gen Chemistry II with Lab	3/2	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Math 210, Calculus—GER B.2. <or> Elective hours	4	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
First Year Writing—GER A.1. <or> A&S 100—GER D.	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
<b>Summer Semester Year 1</b>								
May use summer semester to lighten fall and spring course loads.								
<b>Fall Semester Year 2: 13-16 hours</b>								
GEOL 250, Field Methods	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	*BIOL 108, General Biology is also required for the Geology BA, but HS Biology satisfies this requirement
GEOL 3xx/4xx, Elective for major (may be GEOL 314, Geomorphology, or GEOL 325, Sedimentology/Stratigraphy)	3-4	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Physics 240 <or> 210, General Physics I	4-5	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
*BIOL 108, Gen Biology I <or> Elective hours	3-4	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
<b>Spring Semester Year 2: 15-16 hours</b>								
GEOL 313, Evolution (offered every other spring) Cluster—GER F.4. (recommend GEOL 326CZ, Archaeology of Ancient Disasters)	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	Take and pass WEPT—GER A.3.
Physics 250 <or> 220, General Physics II	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Physics 250 <or> 220, General Physics II	4-5	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Sophomore-level Writing course—GER A.2.	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
<b>Summer Semester Year 2</b>								
May use summer semester to lighten fall and spring course loads.								
<b>Fall Semester Year 3: 13-14 hours</b>								
GEOL 312, Mineralogy	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
GEOL 3xx/4xx, Elective for major (may be GEOL 314, Geomorphology, or GEOL 325, Sedimentology/Stratigraphy)	3-4	<input checked="" 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"/>	
Fine Arts	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
<b>Spring Semester Year 3: 15-16 hours</b>								
GEOL 350, Earth Structures and Tectonics	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	Take the MAPP exam.
GEOL 3xx/4xx, Elective for major (may be GEOL 342 Ign/Met Petrology)	3-4	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
GEOL 444, Geospatial Analysis <or> STAT 235, Elementary Statistics	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Philosophy—GER E.2. <or> other GER	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Oral Argumentation—GER A.5 <or> other GER	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
<b>Summer Semester Year 3: 6 hours</b>								
GEOL 490, Geology Field Camp	6	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
<b>Fall Semester Year 4: 12 hours</b>								
GEOL 3xx/4xx, Elective for major	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	Apply for graduation.
Cultural Perspectives—GER C.2. <or> other GER	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Humanities—GER F.3b. <or> other GER	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Soc & Behav Science—GER F.1b. <or> other GER	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
<b>Spring Semester Year 4: 15 hours</b>								
GEOL 499WI, Senior Seminar (GER A.4.)	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"/>	
Soc & Behav Science—GER F.1b. <or> other GER	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Elective hours	6	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	



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### Non-course requirements

Written English Proficiency Test (WEPT)  
University exit exams (MAPP and/or Major Field)

### 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/2008-09/undergraduate/pg454.html>

#### 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 Geology must meet the following conditions:

- A "C" average must be obtained in all major courses.
- Some core courses are only offered every other year: GEOL 313 Evolution is offered every other spring semester (Spring 2009); GEOL 350 Earth Structures and Tectonics (Fall 2009).
- Students may take any four GEOL 3xx, GEOL 4xx, GEOG 203, or GEOG 442 as the required electives. The following courses are recommended electives.
  - GEOG 203 Introduction to GIS is offered every semester.
  - Either or both GEOL 325 Sedimentology/Stratigraphy and GEOL 314 Geomorphology is/are recommended elective course(s). They are offered every other fall semester on a rotating basis.
  - GEOL 342 Igneous and Metamorphic Petrology is a recommended elective. It is offered every other spring semester (Spring 2009).
- UMKC GEOL 490 Geology Field Camp is usually taken in the summer between the junior and senior year. The class will be offered in even years, contingent upon a minimum enrollment of 12 students. If enrollment is insufficient, students may take this course at any accredited university offering a geology field camp course. Applications for field camp are due each year by February 1<sup>st</sup>. Please speak to the faculty advisor for information about this requirement.
- No more than 3 credit hours of Special Topics in GEOL 417 may be used to fulfill the GEOL elective.
- GEOL 444 Geospatial Analysis may be substituted for Math 235 Statistics.
- A student may take any A&S cluster course. We recommend students enroll in GEOL 326CZ Archaeology of Ancient Disasters that is offered every other spring semester (Spring 2009).
- Students earning a B.S. are required to complete 60 minimum hours of combined math and science, but are not required to take foreign language.

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