

# BA-MS: EARTH AND ENVIRONMENTAL SCIENCES/ ENVIRONMENTAL AND URBAN GEOSCIENCES

## Student Learning Outcomes

Students graduating from this program will:

- be able to conduct an independent geospatial research project.
- be able to analyze and interpret environmental data.
- review ethics in research and career goals, conduct literature searches, and critically evaluate scholarly information
- assess and defend research findings through oral and written communication.

The School of Science and Engineering established the BA-MS program to offer students an opportunity to meet the full requirements of the existing BA and MS degree programs in a shorter time period than the separate degree programs by completing a B.A. degree within four years and then completing an M.S. degree in the fifth year.

- Students admitted to the program will receive the unit BA-MS Scholarship which will cover the difference between Graduate and Undergraduate tuition rates
- Students are required to maintain full-time undergraduate enrollment (minimum 12 hours/ semester)
- Must be continuously enrolled from BA to MS programs (must enter graduate program the semester following completion of BA degree requirements, summer excepted)
- Students are required to maintain full-time enrollment (minimum 9 hours/semester) in the graduate phase of the program and complete the master's degree within a year of their bachelor's degree completion to continue to receive the BA/MS Scholarship

## Admission Requirements for BA-MS Program:

Students must meet the following requirements to be eligible:

- The GRE will be waived for students who meet the qualifications above and are planning to enroll in the BA-MS program
- Students must indicate their interest and apply to the program no later than the end of their junior year
- Students must complete 30 hours at UMKC prior to admission to the BA-MS program
- Students are expected to follow the recommended curriculum (although deviations are possible) and must maintain a UMKC cumulative GPA of 3.00 or higher

This program offers students an opportunity to meet the full requirements of the existing BA and MS degree programs in a shorter time period than the separate degree programs by completing a B.A. degree in Environmental Studies within four years, and then completing an M.S. degree in Environmental and Urban Geosciences in their fifth year.

## Requirements for Graduation

### Credit Hour Requirements

The BA and MS program in Environmental Studies-Environmental and Urban Geosciences requires a minimum of the following:

- 120 Undergraduate Credit Hours
- 30 Graduate Credit Hours
- 143 Total Credit Hours (7 Hours of Overlap taken in Undergraduate Program).

For additional details, please contact our Department by e-mail [sse@umkc.edu](mailto:sse@umkc.edu). ([sce@umkc.edu](mailto:sce@umkc.edu))

## BA-MS 5 Year Plan

### First Year

Fall Semester	Credits	Spring Semester	Credits
MATH 110		3 STAT 235 <sup>CC</sup>	3
HISTORY 101, 102, or POL-SCI 210		3 COMM-ST 110	3
GEFSE 101		3 ENGLISH 110	3
GECRT-SC 101, 102, or 103		3 GECRT-SS 101, 102, 104, 105, 106, 107, 108, or 111	3

GEOLOGY 220 & 220L		4 GEOG 215		4
		<b>16</b>	<b>16</b>	
<b>Second Year</b>				
<b>Fall Semester</b>	<b>Credits</b>	<b>Spring Semester</b>	<b>Credits</b>	
GEOG 203		4 ENGLISH 225		3
GEOLOGY 250L		3 GECRT-AH 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 112, 113, or 114		3
GEOG 360		4 GECDV 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, or 211		3
GEOLOGY 335		3 UPD 280		3
HISTORY 365A		3 GECUE 206 (Satisfies GECUE requirement)		3
		<b>17</b>	<b>15</b>	
<b>Third Year</b>				
<b>Fall Semester</b>	<b>Credits</b>	<b>Spring Semester</b>	<b>Credits</b>	
ENV-STDY 325		3 ENV-SCI 321		3
GEOG 314		4 GEOLOGY 313		4
GEOLOGY 416		3 GEOG 402		4
POL-SCI 435		3 GEOG 406		3
ANTHRO 326		3 ECON 420		3
		<b>16</b>	<b>17</b>	
<b>Fourth Year</b>				
<b>Fall Semester</b>	<b>Credits</b>	<b>Spring Semester</b>	<b>Credits</b>	
GEOG 444		4 ENV-STDY 499WI		3
GEOG 448		4 GEOG 5597		3
GEOG/GEOL 55XX Elective		3 UPD 432		3
General Elective 3XX/4XX		3 EES 3XX/4XX Elective General Elective 3XX/4XX		4 3
		<b>14</b>	<b>16</b>	
<b>Fifth Year</b>				
<b>Fall Semester</b>	<b>Credits</b>	<b>Spring Semester</b>	<b>Credits</b>	
GEOG 5507		4 GEOG 5544		4
GEOG 5599		2 GEOG 5599 Research And Thesis		4
GEOG/UPD 5XXX Elective		3		
		<b>9</b>	<b>8</b>	
<b>Total Credits: 144</b>				

EES course offerings at the Graduate level:

\* Required for MS Environmental and Urban Geosciences

**Undergrad/Grad (offered regularly)**

Geog 403 WI/5503 (every spring)

Geog 401/5507 Advanced GIS (spring, some summers) 4 credits \*

Geol 416/5516 (every other fall) 4 credits

Geog 448/5548 (every fall) 3 credits

Geog 402/5502 (spring) 4 credits

Geol 370/5570 Advanced Hydrogeology (alternate springs) 3 credits

Geol 441/ 5541 Environmental Geophysics (alternate fall) 3credits  
Geog 449/5549 Global Water and Sustainability 3 credits (Every Other Spring) (MD)  
Geog 406/5506 Global Climate Change 3 credits (Every Other Spring) (JA)

**Grad ONLY courses**

Geog 5544 Advanced spatial data Spring (4 credits)\*  
Geog/Geol 5597 Graduate Seminar in Geoscience Spring (3 Credit) \*  
Geog/Geol 5599 Research Thesis (6 credits) Geog/Geol 5598 Special Topics (3 credits)

**Grad courses acceptable for non-thesis option:**

UPD 4xx/55xx Disasters and Natural Hazards Spring (3 Credit)  
UPD 5526 History of Urban Planning & Design (3 Credit)  
UPD 5630 Quantitative Planning Methods (3 Credit)  
UPD 5700 Advanced Planning Theory & Practice (3 Credit)  
UPD 5710 Historic Preservation Studio (3 Credit)  
UPD 5740 Advanced GIS for Urban Planning (3 Credit)  
UPD 5742 Transportation Planning (3 Credit)  
UPD 5743 Introduction to Historic Preservation (3 Credit)  
UPD 5744 History of the Built Environment (3 Credit)  
UPD 5746 Urban Environmental Planning (3 Credit)  
UPD 5747 Urban Redevelopment (3 Credit)  
UPD 5750 American Housing (3 Credit)  
UPD 5790 Historic Preservation Internship (3 Credit)