MASTER OF SCIENCE: 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 Department of Earth and Environmental Science offers a Master of Science degree in Environmental and Urban Geosciences (M.S. EUG). This program prepares students for advanced study in natural hazards, paleoseismology, geology, geochemistry, climate variability, water resources, wetland dynamics, air and water pollution, geoarchaeology, paleoenvironments, geography, urban and human systems, GIS, and environmental remote sensing. The program provides students with either a thesis or non-thesis option. All students must complete the core curriculum and additional coursework.

Admissions Requirements

For full admission to the graduate degree program in environmental and urban geosciences, the following requirements must be met:

1. Completion of an undergraduate degree with a major in a geosciences field (such as Environmental Sciences or Studies, Geography, and/or Geology) and a grade-point average of at least 3.0 (A = 4.0) overall, as well as in the major.
2. Submission of scores on the Graduate Record Examination (GRE) is not required but highly recommended. GRE scores may be used to award assistantships.
3. Two letters of recommendation from academic and/or professional references.
4. The student must declare either a thesis or non-thesis degree option in his or her application. If you are declaring a thesis option admission, you must secure a thesis advisor in the Geosciences Department before admission and declare this in your application. For assistance, contact the Graduate Advisor.
5. All application materials must be submitted to the Admissions Office by March 31 for fall semester and October 1 for spring semester for final consideration.
6. All admitted M.S. EUG students must take a mandatory assessment during “Orientation” before the first day of class each semester.

With department approval, students with non-geoscience undergraduate degrees may be provisionally admitted on a non-regular degree-seeking basis. After successfully completing recommended courses for the appropriate undergraduate geoscience degree, provisionally-admitted students may be granted degree-seeking status.

Graduate Assistantships

Teaching assistantships are awarded on a competitive basis only to incoming fully-admitted, graduate students in the thesis option degree program. Assistantship applications and all supporting materials should be submitted by March 31 for fall enrollment and October 1 for spring enrollment. International Graduate Teaching Assistants (GTA) must be certified by the School of Graduate Studies (http://sgs.umkc.edu/) prior to serving in any GTA position. Interested international students should contact the School of Graduate Studies for more information.

Core Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GEOG 5507</td>
<td>Advanced Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 5544</td>
<td>Advanced Spatial Data Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG/GEOLOGY 5597</td>
<td>Graduate Seminar in Geosciences</td>
<td>3</td>
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Thesis Option Program

An additional 19 credit hours of graduate-level geosciences courses must be taken, of which 3-6 credit hours must be GEOG 5599 or GEOLOGY 5599. These courses will be selected in consultation with your thesis advisor.

Non-Thesis Option Program

An additional 19 credit hours of graduate-level geosciences courses must be taken. Please choose from the following courses:
Requirements for Retention

1. For newly admitted graduate students, elimination of all undergraduate deficiencies (if any) in the undergraduate major and its supporting prerequisites is required upon or before the completion of the first 12 hours of coursework for graduate credit.

2. A 3.0 (B) average or better must be maintained in all graduate coursework. In addition, a 3.0 (B) average and a satisfactory balance of grades must be maintained in the approved program of study, or the student will be subject to either probationary status or dismissal from the program.

3. Thesis-option M.S. EUG students are required to pass a qualifying examination administered by the department during first year orientation.

Requirements for Graduation

1. Formal acceptance of a Program of Study, including thesis research proposal for thesis option students, is required by the department and the School of Graduate Studies upon completion of the GEOG/GEOLOGY 5597.

2. No more than 12 credit hours of the program may be 300- to 400-level courses, and at least 18 credit hours must be at the 5000-level or above.

3. A formal written thesis and final oral examination are required of thesis option M.S. EUG students. The format of the thesis must be in accordance with guidelines of the School of Graduate Studies.

4. Satisfactory compliance with all applicable requirements of the School of Graduate Studies is required, including continuous enrollment and residency. Please refer to the General Graduate Academic Regulations and Information (http://catalog.umkc.edu/general-graduate-academic-regulations-information/) section of this catalog.