

Urban Environmental Management MS Applied Geography

Rationale:

As the environmental responsibilities of local governments grow in response to increased environmental legislation, municipal departments, permitting/oversight agencies, and contracting, environmental engineers need informed, capable, and effective individuals to liaison between them and city managers. The objective of this track is to train students to manage the planning and implementation of both compliance and ethical strategies for sustaining the urban environment. Participation in an internship program with an appropriate government agency or a suitable non-profit that examines issues of specific and immediate interest to that entity is recommended. If appropriate, the results of the internship will form the basis for the student's M.S. thesis or problems in lieu of thesis.

To satisfy the requirement for a minor, two courses selected from the list below must have a single prefix other than GEOG/GEOL. Additionally, all students must take at least one hour of the graduate seminar (GEOG 5000), which may be repeated and applied toward one of the areas of this track (in consultation with your faculty advisor).

1. Required Courses

- GEOG 5110 - Research Design and Geographic Applications (3)
- GEOG 5190 - Advanced Quantitative Techniques (3)

2. Techniques (choose one course from this group)

- GEOG 5500 - Introduction to Geographic Information Systems (3)
- GEOG 5520 Intermediate Geographic Information Systems (3)
- GEOG 5550 – Advanced Geographic Information Systems (3)
- GEOG 5410 - Location-Allocation Modeling (3)
- AECO 5880 – Multivariate Regression Analysis (3)

3. Urban Environments (required)

- GEOG 5210 - Seminar in Urban Geography (3)
- GEOG 5310 - Research in Human Geography (3)
- GEOG 5220 – Applied Retail Geography (3)

4. Policy topics (choose one)

- GEOG 5600 Seminar in Environmental Policy (3)
- GEOG 5960 - Conservation of Resources (3)
- ECON 5440 - Economics of Natural Resources and Environment (3)
- PADM 5610 – Disaster Preparedness and Management (3)
- PADM 5615 – Environmental Planning and Hazards (3)

5. Electives:

- Any one additional 5000 Level Geography course (3)

6. Recommended minors (choose two classes, each three hours, from any one group)

Applied Economics

- AECO 5050 (may be repeated for credit as topics vary); AECO 5870

Public Administration

- PADM 5010; PADM 5060; PADM 5610; PADM 5615; PADM 5300 PADM 5310

Economics

- ECON 5750; ECON 5440; ECON 5700

Environmental Science/Philosophy

- BIOL 5030 (may be repeated for credit as topics vary)
- BIOL 5040; BIOL 5100; BIOL 5200; PHIL 5451; PHIL 5700

Non Thesis Students

- GEOG 5900 - Special Problems (3)
- GEOG 5900 - Internship (3) (if available)

Thesis Students

- GEOG 5950 - Master's Thesis (6)