GEOGRAPHY, MA

Overview
The Department of Geography offers master’s programs of study across a range of systematic, regional, and technical fields, and an innovative PhD program focused on the urban environment. The department’s strengths lie in three areas of expertise that are incorporated into the programs at both master’s and PhD levels. The areas are:

- **Urban Development**: This area primarily emphasizes the role of economic systems as well as cultural and social forces that shape the landscape and dynamics of urban areas. Courses examine such issues as urban growth and change, race and ethnicity in the city, cultural and physical aspects of urban planning process, and the geography of urban political decision-making.

- **Physical Geography and Environmental Studies**: This area addresses the interactions among natural forms and processes on the earth’s surface and human connections with those natural phenomena. Coursework in this general area discusses the distribution and analysis of earth surface landforms and processes (geomorphology), soils (pedology), plants and animals (biogeography) and long-term atmospheric patterns (climatology). Emphasis is placed on the relationship between the physical environment and people, incorporating studies of, for example, natural hazards, conservation, and environmental change, and paying particular attention to the manifestations of these relationships and processes in the urban environment.

- **International Interests**: Department faculty members have varied international interests and experience, for example, in Africa, Canada, the Caribbean, China, Latin America, South Asia, and Western Europe.

In addition to these departmental strengths, individual faculty members apply their expertise in topics such as remote sensing, GIS, and cartography to problems of the city. Geography faculty also participate in the certificate program in Geographic Information Systems, which is jointly offered by the College of Letters and Science and the School of Architecture and Urban Planning.

While the master’s program offers a more traditional structure within which students can strengthen their knowledge of the discipline and one or more of its subfields, the department’s unique PhD program is designed to be especially attractive to forward-looking students interested in the urban environment who seek a flexible, versatile, 21st century graduate education with a strong emphasis on interdisciplinarity. The PhD program's urban-environmental theme is inclusive and encompassing of processes and problems associated with the intersection of human and natural environments, strongly focused on “the city” as the entity of engagement. The program breaks with longstanding tradition in the field of geography in stressing a balance between specialized analytical research and synthetic research, between traditional academic research and community engagement, and between research and teaching. It relies heavily on Geographic Information Science (GIS) as a research tool and as an organizing framework.

Facilities and Resources
The University of Wisconsin–Milwaukee is the repository of the venerable American Geographical Society Library, an internationally renowned research resource. The Department of Geography boasts a large instructional Map Collection, which functions as a federal government depository for maps; and a Soils and Physical Geography Laboratory which supports research projects among several UWM departments.

Microcomputer facilities used by the Geography Department for instruction include two PC/Windows workstation labs. Software installed in these labs includes geographic information systems, remote sensing, mapping, illustration, photo editing, desktop publishing, statistical, database management, and word processing packages. Several university DEC Alphas, other microcomputer laboratories, and multimedia facilities also are available for graduate student research.

Other research resources at UWM available to the Geography Department staff and students include the Cartography and GIS Center, the Great Lakes WATER Institute, the Center for Urban Initiatives and Research, the Center for Latin America, the Center for International Education, the Center for Urban Transportation Studies, the Center for Women’s Studies, the Institute for Survey and Policy Research, and University Information Technology Services (formerly Information and Media Technologies).

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrat/contact-us) online.

Master of Arts in Geography
The MA normally is awarded to those who concentrate in cultural or human geography. Students must elect to pursue either the MA or MS option during their first semester in the program. Students may also elect to complete their degree through either a thesis or non-thesis track.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Evidence of general intellectual ability and compelling interest in geography. An undergraduate major in geography is desirable as evidence of such ability and interest but is not required. Past coursework will be compared to the core requirements of the UWM Geography bachelor’s degree in order to determine any deficiencies that need to be satisfied as a condition of acceptance.

2. Submission to the Geography department of three letters of recommendation supporting application.


4. Departmental approval, based on thorough evaluation of applicant’s potential for professional development.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The Chair of the Graduate Student Administrative Committee is a temporary
advisor; within the first semester the student selects an advisor in the student's specialization.

**Time Limit**

This program is designed to be completed in two years of full-time attendance. The Graduate School requires that all degree requirements be completed within five years of initial enrollment.

The Standard Track is the only option for MA students.

**A. Standard Track**

Both M.A. and M.S. degrees are offered in the standard track. The M.A. normally is awarded to those who concentrate in cultural or human geography, whereas the M.S. is awarded to those who concentrate in physical geography. Students must elect to pursue either the M.A. or M.S. option during their first semester in the program. A minimum of 6 credits in physical geography or natural science courses appropriate to the student’s area of study are required for the M.S. Students may also elect to complete their degree through either a thesis or non-thesis option. The two options have the same coursework requirements except for the capstone project. Details are provided below.

**Credits and Courses**

Minimum degree requirement is 30 graduate credits with an average GPA of 3.0. The student, in consultation with the advisor, plans a program of studies to include:

- 4 credits in Geog 726 (Geographic Information Science)
- 4 credits in Geog 747 (Spatial Analysis)
- 3 credits in Geog 810 (Introduction to Techniques of Research and Presentation)
- 3 credits in Geog 870 (Contemporary Geographic Approaches)
- 12 credits in graduate-level (700 and above) courses approved by the student’s advisor (at least 3 of these credits must be in one Geography graduate seminar course).

The remaining 4 credits will be earned in the student's capstone project (see Thesis Option and Non-Thesis Option information below).

The student also must attend Geography colloquia regularly while in residence and must present her/his thesis research at a departmental colloquium.

**Thesis Option**

The student must register at least 4 credits of Geog 890 Research and Master’s Thesis (approved by the student’s advisor). In addition, the student, through the advisor, must present a proposed thesis topic and Advisory Committee to the Graduate Faculty of the Department for its approval. For students electing the M.S. option, the Faculty will also judge the appropriateness of the thesis topic for that degree.

The student must then write a thesis acceptable to the major professor for presentation to the Advisory Committee (two faculty members in addition to the advisor). The defense date for the thesis must be set at least two weeks prior to the Graduate School deadline for completion of all work. The thesis must be approved by the advisor and delivered to the committee at least six weeks prior to the defense date. Students must submit the thesis to the advisor in sufficient time to meet the committee deadline. Exceptions to these deadlines under unusual circumstances must be approved unanimously by the student’s committee. In addition to submission of the final thesis to the Graduate School (according to their required procedure), the candidate must present the Geography Department with a professionally hard-bound copy which meets Graduate School specifications for quality. This copy will remain on file in the department.

**Non-Thesis Option**

This option is intended for students who are not interested in continuing their graduate education beyond the master’s degree, and plan to seek professional employment. The M.A. degree will normally be awarded upon completion of this option. Those who wish a M.S. degree must formally petition the Graduate Faculty in writing, providing a rationale as to why that degree is appropriate to their program. The student must complete at least 4 credits of graduate work (approved by the student’s advisor) as either:

- Two research papers (Geog 999) Students pursuing the non-thesis option through the two-research paper option must choose two separate topics, and conduct extended literature reviews on the topics, although other possibilities, such as a small research project, should not be excluded. The papers are expected to be 25-50 pages apiece. The student is expected to have an oral defense with three committee members regarding the two papers. According to current guidelines, the student is not expected to present their papers to the colloquium series.

OR

- A graduate internship (Geog 798 or Geog 889) Students pursuing the non-thesis option through the graduate internship should conduct at least 180 hours of internship. The internship should be related to the student’s academic area of interest and must be approved by the advisor. The student is expected to write a scholarly paper of 25-50 pages long that connects the internship to the appropriate literature. The student must have a committee of three faculty members, and is expected to go through an oral defense with the committee members regarding the internship paper. According to current guidelines, the student is not expected to present their internship paper to the colloquium series.

**Comprehensive Examination**

In combination with the thesis defense (or after completion of the work for the non-thesis option), the student must pass a final oral examination over the field of geography, administered by the student’s Advisory Committee. Scheduling this examination during the summer is not permitted except under unusual academic circumstances and with the approval of the department faculty.