GEOGRAPHY, MS

for the degree of Master of Science in Geography

Department Head: Dr. Shaowen Wang
Director of Graduate Studies: Dr. Brian Jefferson
website: ggis.illinois.edu (http://www.ggis.illinois.edu/)
email: geography@illinois.edu
phone: (217) 333-1880
Office address:
2044 Natural History Building
1301 W. Green Street
Urbana, IL 61801

Successful degree candidates with backgrounds in physical geography and GIS are recommended for a Master of Science; others receive a Master of Arts.

Graduate degree programs in Geography:
CyberGIS and Geospatial Data Science, MS (http://catalog.illinois.edu/graduate/las/cyberGIS-geospatial-data-science-ms/) (online)
Geography, MA (http://catalog.illinois.edu/graduate/las/geography-ma/)
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concentrations:
  Geographic Information Science - Professional Science Master’s (http://catalog.illinois.edu/graduate/las/geography-ms/geographic-information-science-professional-science-masters/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
Geography, PhD (http://catalog.illinois.edu/graduate/las/geography-phd/)
concentration:
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

We offer a program leading to the Master of Science degree in geography with the following specializations:

- **Geographic Information Science**
  Geographic information systems; Dynamic modeling of ecological and social systems; Geocomputation and CyberGIS; Aerial photo analysis; Remote sensing; Inter-regional input-output modeling; Regional science; Spatial analysis

- **River, Watershed, and Landscape Dynamics**
  Fluvial geomorphology; Watershed science and management; Aerial photo analysis; Ecosystem dynamics

Admission

Students applying for admission to the master’s program are expected to have a strong undergraduate background in geography and/or related disciplines. In addition to other Graduate College admission requirements, a grade point average of at least 3.0 (A = 4.0) in the undergraduate major is required. PhD candidates are generally expected to have at least a 3.5 average in previous graduate work.

GRE scores are not required or evaluated for admission to our graduate programs.

Assistantships and Fellowships

Geography graduate students generally receive tuition/fee waivers through teaching assistantships, research assistantships, or fellowships.

Graduate Teaching Experience

Although teaching is not a Graduate College requirement, it is an important part of the graduate experience in this program. We have implemented a professionalization program where graduate students work with faculty members to receive advice and gain first-hand experience in teaching undergraduate courses. Several of our graduate students have also had the opportunity to serve as lead instructor for introductory-level geography courses.

Facilities and Resources

The department hosts several state-of-the-art research laboratories maintained by individual faculty members. The CyberInfrastructure and Geospatial Information (CIGI) Lab (https://cigi.illinois.edu/), housed in the department, researches and develops cutting-edge cyberinfrastructure
to advance geospatial science and technologies. The department also sponsors the CyberGIS Center for Advanced Digital & Spatial Studies (https://cybergis.illinois.edu/) whose mission is to empower advanced digital and spatial studies through innovation of CyberGIS technologies and applications. The lab houses several high performance computers and servers for performing computationally intensive geographic analysis and problem solving in various research, education, and outreach contexts.

**Map and Geography Library**

The University Library has a substantial collection of geography books and journals. Most of the new and more recent books are located in the Social Sciences, Health, and Education Library (SSHEL) (https://www.library.illinois.edu/sshel/); nearly all geography journals are available full-text through the University Library (https://www.library.illinois.edu/). The Map Library (https://www.library.illinois.edu/max/) holds a collection of over 626,000 maps and aerial photographs and houses an extensive collection of books on cartography and geographic information science. Map Library and University Library Scholarly Commons (https://www.library.illinois.edu/sc/) staff can also help students locate geospatial data.

Information listed in this catalog is current as of 04/2022