

GEOGRAPHY, MA

Department of Geography & Geology, College of Arts & Sciences

Vision Statement

The mission of the geography graduate program is to provide quality graduate education in physical geography, human geography and spatial analysis (GIS, cartography and remote sensing). The department offers a rich learning environment for students with close interaction between faculty and students, technology-enhanced instruction, and opportunities for fieldwork. Courses enhance student's perception and appreciation of the earth's human and physical environments as well as geography's essential role in both understanding and navigating our increasingly interconnected world. The department, an active participant in its community, has ties throughout the city and state, leading to a wide variety of internship opportunities. The department is committed to providing students with the essential knowledge and skills needed to succeed, be it in professional employment or further graduate education.

Program Contact Information

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Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/geography/>)

Other Program Related Information

The Department of Geography/Geology offers graduate assistantships. Applications should be directed to the department and are due March 1 for the Fall Semester and October 15 for the Spring Semester. The assistantship requires 20 hours per week of teaching or similar duties. Applications received after the deadline will be considered for the next available opening.

Admissions

Application Deadlines (Spring 2021, Summer 2021, and Fall 2021)

- Fall: July 1
- Spring: December 1
- Summer: May 1

Program-Specific Requirements

- Applicants must have a GPA in geography of at least a 3.0 on a 4.0 scale
- Present as a prerequisite a minimum of 15 undergraduate semester hours of geography including physical and human geography and cartography, plus at least three hours in spatial analysis, quantitative methods or statistics;
- Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
 - A minimum TOEFL score of 550 paper-based; 80 internet-based; 53 PTE, or 6.5 IELTS is required for this program.
- Two (2) letters of recommendation
- Statement of Purpose
- Resume

Degree Requirements

Thesis Option

| Code | Title | Credits |
|---|-------------------------------------|---------|
| Required Courses | | |
| GEOG 8000 | HISTORY AND PHILOSOPHY OF GEOGRAPHY | 3 |
| GEOG 8700 | RESEARCH METHODS | 3 |
| An approved physical geography course | | 3 |
| An approved human geography course | | 3 |
| An approved techniques course | | 3 |
| Electives | | |
| May be completed in consultation with the graduate program chair or an area of concentration by be selected from the options below. | | 9 |
| Concentrations | | |
| See Geography, MA Concentrations. | | |
| GEOG 8990 | THESIS | 6 |
| Total Credits | | 30 |

Non-Thesis Option

| Code | Title | Credits |
|---|--|---------|
| Required Courses | | |
| GEOG 8000 | HISTORY AND PHILOSOPHY OF GEOGRAPHY | 3 |
| GEOG 8700 | RESEARCH METHODS | 3 |
| GEOG 8026 | SPATIAL ANALYSIS IN GEOGRAPHY ¹ | 3 |
| An approved physical geography course | | 3 |
| An approved human geography course | | 3 |
| Electives | | |
| May be completed in consultation with the graduate program chair. | | 21 |
| Concentrations | | |
| See Geography, MA Concentrations. | | |
| Total Credits | | 36 |

¹ GEOG 8026: or an approved graduate level statistics course from another department

Exit Requirements:

- Thesis Option- 6 hours GEOG 8990
- Non-Thesis Option - Comprehensive Examination or Professional Conference
 - As an alternative to the oral and written non-thesis exams, a student pursuing the non-thesis option can instead present a paper or a poster at a professional conference. Poster or paper must be based on the student's original research. Student must create a three-person committee and defend a research proposal first. The committee must be approved by the graduate studies coordinator. Once their research is complete, their paper and poster or Powerpoint must be reviewed and approved by their committee. Once approved, the presentation or poster must be presented to the department before the conference and the Poster/Presentation Non-Thesis Option Form completed. Student must then present at the conference and write up a one-page reflection of their experience presenting, giving the form and the reflection to the graduate studies coordinator.

Geography, MS Concentrations

Select an area of concentration (9 hours)

Courses offered through GEOG 8500 and GEOG 8600 will be submitted for inclusion in a concentration accompanied by a letter from the student's advisor or from the graduate program chair with the course title and specifying the concentration to which it applies.

Human Geography Concentration

| Code | Title | Credits |
|----------------|---|---------|
| GEOG 8126 | URBAN GEOGRAPHY | 3 |
| GEOG 8130 | SEMINAR IN ECONOMIC GEOGRAPHY | 3 |
| GEOG/WGST 8156 | GEOGRAPHY, GENDER AND ENTREPRENEURSHIP | 3 |
| GEOG 8210 | SEMINAR IN CULTURAL GEOGRAPHY | 3 |
| GEOG 8500 | SPECIAL TOPICS IN GEOGRAPHY | 1-3 |
| GEOG 8600 | INDEPENDENT RESEARCH | 1-3 |
| GEOG 8650 | LAND USE | 3 |
| GEOG 8800 | INTERNSHIP IN ENVIRONMENTAL/ REGIONAL PLANNING | 1-6 |

Physical/Environmental Geography Concentration

| Code | Title | Credits |
|---------------------|---|---------|
| GEOG 8016 | CONSERVATION OF NATURAL RESOURCES | 3 |
| GEOG/BIOL/GEOL 8106 | BIOGEOGRAPHY | 3 |
| GEOG 8266 | PROCESS GEOMORPHOLOGY | 4 |
| GEOG 8326 | CLIMATOLOGY | 3 |
| GEOG 8336 | SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION | 4 |
| GEOG 8346 | WATER RESOURCES | 3 |
| GEOG 8500 | SPECIAL TOPICS IN GEOGRAPHY | 1-3 |
| GEOG 8600 | INDEPENDENT RESEARCH | 1-3 |

Geographic Information Science and Technology Concentration

| Code | Title | Credits |
|-----------|---|---------|
| GEOG 8036 | COMPUTER MAPPING AND VISUALIZATION | 3 |
| GEOG 8056 | GEOGRAPHIC INFORMATION SYSTEMS I | 4 |
| GEOG 8500 | SPECIAL TOPICS IN GEOGRAPHY | 1-3 |
| GEOG 8600 | INDEPENDENT RESEARCH | 1-3 |
| GEOG 8636 | ENVIRONMENTAL REMOTE SENSING | 4 |
| GEOG 8640 | REMOTE SENSING ADVANCED CONCEPTS AND APPLICATIONS | 3 |
| GEOG 8666 | GEOGRAPHIC INFORMATION SYSTEMS II | 4 |
| GEOG 8670 | CARTOGRAPHIC METHODS | 3 |

Geospatial Database Concentration

| Code | Title | Credits |
|---|---|---------|
| Required Courses | | |
| GEOG 8056 | GEOGRAPHIC INFORMATION SYSTEMS I | 4 |
| GEOG 8666 | GEOGRAPHIC INFORMATION SYSTEMS II | 4 |
| Required Depending on Experience | | |
| Fall/Spring: | | |
| ISQA 8050 | DATA ORGANIZATION AND STORAGE (non-credit course) | 3 |
| Required Courses in ISQA | | |

| | | |
|--------------|---|---|
| Fall: | | |
| ISQA 8306 | DATABASE ADMINISTRATION | 3 |
| Spring: | | |
| ISQA 8410 | DATA MANAGEMENT | 3 |
| ISQA 8736 | DECISION SUPPORT SYSTEMS | 3 |
| or ISQA 8525 | GRAPHICAL USER INTERFACE DESIGN | |
| Fall/Spring: | | |
| ISQA 8310 | IT INFRASTRUCTURE & CLOUD COMPUTING | 3 |
| Fall/Summer: | | |
| ISQA 8380 | ENTERPRISE ARCHITECTURE AND SYSTEMS INTEGRATION | 3 |