

CURRICULUM REQUIREMENTS OF THE M.S. IN GISc

Thesis Option: 32 credits minimum
Alternative Plan Paper Option: 34 credits minimum,
Coursework-only Option: 36 Credits minimum.

Common Core

GEOG 671 * Geodatabase 3 cr
GEOG 672 * Geospatial Modeling & Simulation 3 cr
GEOG 673 * Advanced GIS 3 cr
GEOG 674 * Advanced Remote Sensing 3 cr

Research/Methods Course(s)

GEOG 670 Seminar in GIS 3 cr

Restricted Electives

* Restricted Electives, Unrestricted Electives, and Capstone Course must add up to a minimum 17 credits (Thesis Option) or a minimum 19 credits (Alternate Plan Paper Option) or a minimum 21 credits (Coursework-only Option). Consult with your advisor.

Choose 12 - 18 Credit(s).

GEOG 539 Transportation Modeling & GIS 4 cr
GEOG 571 Digital Field Mapping with GPS 4 cr
GEOG 573 Intermediate GIS 4 cr
GEOG 574 Introduction to Remote Sensing 4 cr
GEOG 575 Open-Source GIS 4 cr
GEOG 576 Spatial Statistics 3 cr
GEOG 578 Spatial Analysis with GIS 3 cr
GEOG 579 GIS Practicum 1-4 cr
GEOG 581 GIS and Environmental Hazards 3 cr
GEOG 582 GIS for Natural Resources 4 cr
GEOG 583 Cloud Mapping & Visualization 4 cr
GEOG 584 Web GIS 4 cr
GEOG 585 GIS Programming 4 cr

Unrestricted Electives

* Restricted Electives, Unrestricted Electives, and Capstone Course must add up to a minimum 17 credits (Thesis Option) or a minimum 19 credits (Alternate Plan Paper Option) or a minimum 21 credits (Coursework-only Option). Consult with your advisor.

Choose 0 - 6 Credit(s).

GEOG 610 Issues in Physical Geography 1-4 cr
GEOG 620 Issues in Cultural Geography 1-4 cr
GEOG 650 Issues in Regional Geography 1-4 cr
GEOG 677 Individual Study 1-4 cr
GEOG 678 Geographic Research & Writing 3 cr
GEOG 680 Philosophy of Geography 3 cr
GEOG 681 Environmental Issues 3 cr
GEOG 698 Internship 1-6 cr

Course Outside Geography: Choose 0 - 4 Credit(s).

* One course (either 5XX or 6XX level course - up to 4 credits) from relevant program outside of Geography may be used toward unrestricted electives as approved by the advisor.

Capstone Course

* Restricted Electives, Unrestricted Electives, and Capstone Course must add up to a minimum 17 credits (Thesis Option) or a minimum 19 credits (Alternate Plan Paper Option) or a minimum 21 credits (Coursework-only Option). Consult with your advisor.

Choose one from the following courses.

GEOG 679 GIS Practicum 3 cr

GEOG 694 Alternate Plan Paper 1-2 cr

GEOG 699 Thesis 1-6 cr

* GEO 679 is for Coursework-only Option students who plan a career in business or industry.

Choose GEOG 699 or GEOG 694 or GEOG 679

* GEO 694 is for Alternate Plan Paper Option students who plan to complete a research project based on their coursework or internship.

* GEO 699 is for Thesis Option students who plan to continue in a doctoral program.