

MASTERS OF SCIENCE IN GEOGRAPHIC INFORMATION SCIENCE



Earth, Environmental, and Geospatial Sciences (EEGS)

Geographic Information Science (GISc) is a fast growing computer technology field involving mapping and analysis of spatial data. Geographic Information Systems (GIS) enable us to assess and manage critical issues with a spatial dimensions such as climate change, monitoring disease occurrences through dashboards, conservation of the environment, crime analysis, and emergency management.

- GISc is projected by the US Department of Labor to be one of the fastest-growing fields, and it is difficult to imagine a field that has not already been impacted by GISc.
- Most of our students complete an internship to jumpstart their careers. Host include many local agencies, NASA, NOAA, and Columbia University, among others.
- Our graduates work at: US Census bureau, US EPA, NASA, US Forest Service, New York Police Department, NYC Office of Emergency Management, NYC Parks Department, and NYC Department of Transportation, among other places.
- Potential positions include: GIS Technician and Analyst, Data Scientist, Cartographer, Business Intelligence Analyst.

MS-GISc (40 Credits)

14 Credits in Required Courses:

GEP 505 Principles of GISc
GEP 621 Remote Sensing
GEP 630 Geostatistics and Spatial Analytical Concepts
GEP 605 Special Topics in GISc

8 Credit Capstone Experience:

Traditional Master's Thesis Option

GEP 695 Thesis Research in GISc or

Professional Experience Option

GEP 690 Workshop in GISc Research and GEP 670 Internship in GISc

18 Credits to be chosen from the following:

GEP 504 Basic Mapping Science
GEP 602 Biogeography and GISc
GEP 606 Raster Analysis
GEP 610 Spatial Analysis of Urban Health
GEP 620 Demography & Population Geography GISc
GEP 631 Advanced Remote Sensing
GEP 632 Environmental Health and GISc
GEP 635 Natural Hazards and Risk Analysis
GEP 640 Urban Geography and GISc

GEP 645 Water Resources, Hydrology, and GISc
GEP 650 Regional Geography & Applied Mapping
GEP 660 Geovisualization and Analytical Cartography
GEP 662 Introduction to Programming for GISc
GEP 664 Spatial Database Management
GEP 675 Data Integration & Data Acquisition Methods
GEP 680 Emerging Issues and Methods in GISc
GEP 689 Methods Seminar in GISc
GEP 691 Independent Study in GISc

Courses may be substituted with departmental permission.

For more information please contact:

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