MASTERS OF SCIENCE IN GEOGRAPHIC INFORMATION SCIENCE



Earth, Environmental, and Geospatial Sciences (EEGS)

Geographic Information Science (GISc) is a fast growing computer technology and data field that is revolutionizing private and public sectors of the economy through powerful visualizations, dashboards, mapping, and analysis of spatial data. Geographic Information Systems (GIS) enable us to address and research critical issues with a spatial dimension such as climate change, disease occurrences, conservation of the environment, crime patterns, housing and real state, transportation and infrastructure, hazards and disasters, and emergency management.

- GISc is projected by the US Department of Labor to be one of the fastest-growing fields; 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. Internship hosts 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 Expirience Option
GEP 690 Workshop in GISc Research and GEP
670 Intership in GISc

Courses may be substituted with departmental permission.

18 Credits 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

For more information please contact:

Dr. Elia Machado, Associate Professor Director of Geography and Geographic Information Science Programs Lehman College, City University of New York

ELIA.MACHADO@lehman.cuny.edu











