

ADVANCED CERTIFICATE IN GEOGRAPHIC INFORMATION SCIENCE (GISc)

Earth, Environmental, and Geospatial Sciences

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 existing conditions, and also help predict future conditions, ranging from monitoring disease occurrences, to endangered species preservation, to managing water supplies, to tracking real estate values, to crime solving. GISc is especially valuable in policy- and decision-making, and has become an indispensable component of most planning activities. GISc is used today in fields as diverse as criminal justice, marketing, economic development, public health administration, environmental assessment, risk analysis, ecology, urban planning, emergency management, real estate, government, and education. The Lehman GISc Program emphasizes “real-world” applications of geotechnologies and geospatial analysis to solve problems and improve conditions, using New York City as a “living laboratory.” Lehman has also developed an Internship Program in GISc, allowing qualified students to earn credits while working in paid and unpaid GISc positions. Recently, graduates possessing GIS skills have gained a distinct advantage in a diverse array of fields. The job market for GIS experts has been flourishing for some time. But in addition, people proficient in GIS are in high demand in many fields. GIS can augment your professional marketability and make your credentials more robust and outstanding in a competitive job market, regardless of your professional field.

The Advanced GISc Certificate courses may be taken at the same time you are working toward your Graduate degree in any program. Lehman College’s EES Department also offers a 40-credit Master’s of Science in GISc (MS-GISc). We are convinced that you will not find a better place to study Geographic Information Science in the New York region than Lehman College.

ADVANCED CERTIFICATE IN GISc (17-20 Credits)

8 Credits in Required Courses

GEP 605 Special Projects in GISc (4 credits)

GEP 690 Workshop in GISc Research (4 credits)

GEP 621 Introduction to Remote Sensing (4 credits)

GEP 635 Natural Hazards and Risk Assessment
(with GISc (4 credits)

9-12 Credits to be chosen from the following:

GEP 632 Environmental Health and GISc (3 credits)

GEP 640 Urban Geography (3 credits)

GEP 606 Raster Applications (3 credits)

GEP 610 Geography of Urban Health (3 credits)

GEP 620 Population Geography, Demography, and GISc
(3 credits)

GEP 645 Water Resources and GISc (4 credits)

GEP 660 Geovisualization and Analytical
Cartography (4 credits)

GEP 675 Data Acquisition and Integration Methods
for GIS Analysis (3 credits)

GEP 670 Internship in Geography (4 credits)

(Other courses may be substituted with department permission.)

For more information please contact:

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