

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 GISc Certificate courses may be taken at the same time you are working toward your Bachelor’s degree in any major. Lehman College’s EES Department also offers a 14-credit Minor in GISc; a 28-credit Geography major, with a concentration in GISc; a 17-20 credit graduate-level Advanced Certificate in GISc; and 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.

CERTIFICATE IN GISc (17 Credits)

14 Credits in Required Courses

GEP 204 Basic Mapping Science (3 credits)
GEP 205 Principles of GISc (3 credits)
GEP 350 Special Projects in GISc (4 credits)
GEH 490 Honors in Geography (4 credits)

GEP 321 Introduction to Remote Sensing (4 credits)
GEO 340 Natural Hazards and Risk Assessment with GISc (4 credits)
GEO 345 Water Resources and GISc (4 credits)
GEP 360 Geovisualization and Analytical Cartography (4 credits)
GEP 375 Data Acquisition and Integration Methods for GIS Analysis (3 credits)
GEP 377 Field Investigation Methods in Regional Physical Geography (4 credits)
GEP 470 Internship in Geography (4 credits)

3-4 Credits to be chosen from the following:

GEH 232 Medical Geography (3 credits)
GEH 240 Urban Geography (3 credits)
GEP 306 Raster Applications (3 credits)
GEP 310 Geography of Urban Health (3 credits)
GEP 320 Population Geography (3 credits)

(Other courses may be substituted with department permission.)

For more information please contact:

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