

**LEHMAN COLLEGE
OF THE
CITY UNIVERSITY OF NEW YORK**

DEPARTMENT OF EARTH, ENVIRONMENTAL, AND GEOSPATIAL SCIENCES

CURRICULUM CHANGE

1. Type of change: Experimental Course

2.

Department(s)	Earth, Environmental, and Geospatial Sciences (EEGS)
Career	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Academic Level	<input checked="" type="checkbox"/> Regular <input type="checkbox"/> Compensatory <input type="checkbox"/> Developmental <input type="checkbox"/> Remedial
Subject Area	Geographic Information Science
Course Prefix & Number	GEP 312
Course Title	Quantitative and Qualitative Methods in Historical and Cultural GISc
Description	A cross-cultural and longitudinal study of how maps have been used in society and how maps have shaped history. How to analyze and interpret historical events using maps, charts, and graphs, and to create simple maps pertaining to historic events, changes over time, and cultural distributions. How to use archival maps and other historic documents to create new data sets and maps within the framework of geographic information systems (GIS).
Pre/ Co Requisites	Instructor's permission
Credits	3
Hours	4 (2 lecture, 2 lab)
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	
General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures

	_____ US Experience in its Diversity _____ Creative Expression _____ Individual and Society _____ Scientific World
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3. **Rationale:**

This course will be utilized as an elective for the 28-credit Geography Major, the 17-credit GISc Certificate and the 14-credit GISc Minor. It will provide students with an introduction to geographic quantitative and qualitative analysis techniques used in creating and interpreting historical and cultural spatial products.

4. **Learning Outcomes (By the end of the course students will be expected to):**

- Demonstrate a general understanding of the fundamentals of spatial humanities and the role of GIS in historical and cultural research;
- Create simple GIS datasets from historic maps and develop geovisualizations of historic spatial data;
- Conduct basic quantitative and qualitative spatial analysis of historic and cultural data;
- Georeference and digitize archival maps;
- Perform geographic information retrieval of historic documents on the Internet and in digital libraries;
- Present elementary quantitative and qualitative GIS analyses through written reports, GISc lab assignments, and oral presentations.

5. **Date of Departmental Approval:** November 9, 2016