LEHMAN COLLEGE
OF THE
CITY UNIVERSITY OF NEW YORK

DEPARTMENT OF EARTH, ENVIRONMENTAL AND GEOSPATIAL SCIENCES

CURRICULUM CHANGE

1. **Type of change:** New Course (experimental)

2.

Department(s)	Earth, Environmental and Geospatial Sciences
Career	[X] Undergraduate [ ] Graduate
Academic Level	[X] Regular [ ] Compensatory [ ] Developmental [ ] Remedial
Subject Area	Geography
Course Prefix & Number	GEP 380
Course Title	Emerging Methods and Techniques in Geographic Information Science (GISc)
Description	Current and innovative issues, technologies, and methods in the field of Geographic Information Science. Topics may include Critical Cartography; Web Mapping; and New Technologies for Analysis.
Pre/ Co Requisites	GEP 204 or GEP 205, or Departmental permission
Credits	3 (may be repeated for up to 9 credits)
Hours	4 (2 lecture, 2 lab)
Liberal Arts	[X] Yes [ ] No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
General Education Component	__X_ Not Applicable ____ Required ____ English Composition ____ Mathematics ____ Science ____ Flexible ____ World Cultures ____ US Experience in its Diversity ____ Creative Expression ____ Individual and Society ____ Scientific World

3. **Rationale:**
This course will serve as an elective in the undergraduate EEGS Dept. Programs, including Geography major, Environmental Science major, GISc Certificate, and EEGS Dept. minor programs. Understanding specialized issues in the discipline and keeping current with emerging trends and technologies is essential students concentrating in GISc.

4. **Learning Outcomes (By the end of the course students will be expected to):**
Learning Objectives will vary by the specific topic of the course, but include:

- Demonstrate a thorough familiarity and in-depth knowledge of the course topic;
- Apply the concepts of the course to an over-arching geographical framework, and specifically to their own research questions;
- Understand the inter-relationships between the course topic and the broader range of spatial issues encountered when solving real-world problems;
- Use the topic material in quantitative and qualitative analysis, as appropriate.
- Analyze and interpret data, and present scientific findings in written, graphic, and oral formats.

5. **Date of Departmental Approval:** February 20, 2018