LEHMAN COLLEGE OF THE CITY UNIVERSITY OF NEW YORK

DEPARTMENT OF EARTH, ENVIRONMENTAL AND GEOSPATIAL SCIENCES

CURRICULUM CHANGE

1. **Type of Change:** Pre-requisite, Description

2. From: Strikethrough the changes

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Department(s)	Earth, Environmental, and Geospatial Sciences (EGGS)		
Career	[X] Undergraduate [] Graduate		
Academic Level	[X] Regular [] Compensatory [] Developmental [] Remedial		
Subject Area	Geography		
Course Prefix & Number	GEP 321		
Course Title	Introduction to Remote Sensing		
Description	Fundamental of remote sensing, energy interactions between the sun, atmosphere and features on the earth surface. Structure of raster data, cell size, and both passive and active remote sensing. Spatial, spectral, radiometric and temporal resolution characteristics of different multispectral remotely sensed data using specialized image analysis software.		
Pre/ Co	NA		
Requisites			
Credits	4		
Hours	5		
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. <u>To</u> : <u>Underline</u> the changes				
Department(s)	Earth, Environmental, and Geospatial Sciences (EGGS)			
Career	[X] Undergraduate [] Graduate			
Academic Level	[X] Regular [] Compensatory [] Developmental [] Remedial			
Subject Area	Geography			
Course Prefix & Number	GEP 321			
Course Title	Introduction to Remote Sensing			
Description	Fundamentals of remote sensing, energy interactions between the sun, atmosphere, and features on the earth surface. Structure of raster data, cell size, and both passive and active remote sensing. Spatial, spectral, radiometric and temporal resolution characteristics of different multispectral remotely sensed data using specialized image analysis software.			
Pre/ Co	GEP 204 OR GEP 205 OR GEP/ENV 251			
Requisites				
Credits	4			
Hours	5			
Liberal Arts	[X] Yes [] No			
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA			
General	X_ Not Applicable			
Education Component	Required English Composition Mathematics Science			
	Flexible World Cultures US Experience in its Diversity Creative Expression Individual and Society Scientific World			

4. Rationale (Explain how this change will impact the learning outcomes of the department and Major/Program):

Prior experience with Geographic Information Systems software has proven fundamental to the successful completion of this course. The learning outcomes of the department and major will not be affected by this change in course pre-requisite, but it is expected that students' performance in GEP 321 will improve.

5. Date of departmental approval: 4/13/2021

LEHMAN COLLEGE OF THE CITY UNIVERSITY OF NEW YORK

DEPARTMENT OF EARTH, ENVIRONMENTAL AND GEOSPATIAL SCIENCES

CURRICULUM CHANGE

1. Type of change: New course

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2.			
Department(s)	Earth, Environmental and Geospatial Sciences		
Career	[X] Undergraduate [] Graduate		
Academic Level	[X] Regular [] Compensatory [] Developmental [] Remedial		
Subject Area	Environmental Science; Geography		
Course Prefix & Number	ENV/GEP 251		
Course Title	Introduction to digital data for environmental science		
Description	Use of digital data and databases in environmental science, data sources and analytical techniques.		
Pre/ Co Requisites	Co-Requisite BIO 251		
Credits	2		
Hours	4		
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:

ENV/GEP 251 was approved as an experimental course, but was canceled due to low enrollment. We are asking to make the course permanent so that it can be added to the Bio-BS Bioenvironmental Track as an offering that counts towards the B.S. in Biology

degree. Making ENV/GEP 251 a permanent course and having it as a co-requisite of BIO251 will enhance its potential to get full enrollment to be offered on a regular basis.

4. <u>Learning Outcomes (By the end of the course students will be expected to)</u>: Learning Objectives include:

- Demonstrate knowledge of various types of digital databases used in environmental science;
- Apply digital data to various topics in environmental science using visualization and analysis;
- Use course material as a supplement to develop research/project topics;
- 5. Date of Departmental Approval: 10/07/2021