

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

**Department of Earth, Environmental and Geospatial Sciences**

**CURRICULUM CHANGE**

**1. Type of change:**    New Course

**2.**

Department(s)	Earth, Environmental and Geospatial Sciences
Career	<input type="checkbox"/> Undergraduate <input checked="" type="checkbox"/> Graduate
Academic Level	<input checked="" type="checkbox"/> Regular <input type="checkbox"/> Compensatory <input type="checkbox"/> Developmental <input type="checkbox"/> Remedial
Subject Area	Earth Science
Course Prefix & Number	GEO580
Course Title	Topics in Geology
Description	Study of a range of introductory topics in Geology including plate tectonics, rock cycle, regional geology and earth evolution. Topic to be determined by instructor and approved by program advisor/director.
Pre/ Co Requisites	Corequisite GEO581
Credits	3
Hours	3
Liberal Arts	<input type="checkbox"/> Yes <input checked="" 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 <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World

**3. Rationale:**

GEO 580 will provide graduate students with foundational skills in independent research and analysis of specific geological topics. This course is designed for those students who are not experts in the area of geology. Specifically, the course is designed for science education preservice and inservice teachers at Lehman. In addition, GEO 580 content will help with the requirement for inservice teachers, who are part of the collaborative program between EGGS and the New York City Department of Education, to teach earth science in secondary settings. GEO 580 already was approved and offered as an experimental course in 2013.

**4. Learning Outcomes:**

- Understand principles and background of earth evolution and resources.
- Improve computer literacy through work with online resources.
- Develop abilities to use web-based data portals for class projects.
- Integrate quantitative reasoning in geological data interpretation.

**5. Date of Departmental Approval: February 4, 2015**

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Academic Level	<input checked="" type="checkbox"/> Regular <input type="checkbox"/> Compensatory <input type="checkbox"/> Developmental <input type="checkbox"/> Remedial
Subject Area	Earth Science
Course Prefix & Number	GEO581
Course Title	Topics in Geology, Laboratory
Description	In-class laboratory or field experience aligned with and determined by topic selected for GEO 580 Introductory Studies in Geology.
Pre/ Co Requisites	Corequisite GEO580
Credits	1
Hours	2
Liberal Arts	<input type="checkbox"/> Yes <input checked="" 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 <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World

**3. Rationale:**

GEO 581 is a corresponding in-class laboratory and field experience aligned with and determined by the GEO 580 topic. It will provide graduate students with foundational skills in independent research and analysis of specific geological topics. This course is designed for those students who are not experts in the area of geology. Specifically, the course is designed for science education preservice and inservice teachers at Lehman. In addition, GEO 580 content will help with the requirement for inservice teachers, who are part of the collaborative program between EGGs and the New York City Department of Education, to teach earth science in secondary settings. GEO 580 already was approved and offered as an experimental course in 2013.

**4. Learning Outcomes:**

- Demonstrate the ability to apply knowledge and skills in area in geology determined by the corequisite GEO 580.
- Show competency in practical exercises and fieldwork.
- Integrate geographic information systems technique with geologic data.
- Develop ability to conduct geologic tests of rocks and minerals.
- Improve critical thinking in interpreting global earth cycles and regional geology.

**5. Date of Departmental Approval: February 4, 2015**