

**JAMESTOWN COMMUNITY COLLEGE**  
State University of New York

---

**Master Course Syllabus**

**Course Title:** New York State Geology

**Course Abbreviation and Number:** GLG 1610

**Credit Hours:** 1                      **Division:** STEM                      **Course Type:** Lecture

**Course Description:** Students will be introduced to the various geologic provinces of New York state and their unique history, physiography, and scenic beauty. Through the use of readings, lectures, audiovisual aids, and a mini-lab, students will be able to explain the major events in the geologic history of New York state and describe the geologic characteristics of each province. During the mini-lab, students will learn to identify common New York rocks, minerals, and fossils.

Corequisite: ENG 1530.

**Course Attributes:** E,L,N

(C=Career, E=Elective, H=Humanities, L=Liberal Arts & Sciences, N=Mathematics/Sciences, S=Social Sciences; VEDP=Values, Ethics & Diverse Perspectives)  
4-letter codes represent SUNY General Education Courses, please see below to determine which SUNY General Education requirement(s) is met.

---

**Student Learning Outcomes:**

After successful completion of this course, students will be able to:

1. Identify rocks and minerals commonly found in the various regions of New York State with an emphasis on those found in Western New York.
2. Describe the rock-forming environments and conditions of the sedimentary, igneous, and metamorphic rocks of New York.
3. Describe the major orogenies and tectonic events (including when they occurred on the geologic time line) in New York.
4. Describe the major geologic characteristics of the Niagara escarpment, the Adirondack Mountains and Hudson Highlands, Tug Hill Plateau, Appalachian Plateau, Finger-Lakes region, Helderberg Escarpment, and the Canadian Shield within New York.
5. Describe glaciations in New York (timeline and geologic features).
6. List types and locations of mineral resources in New York.

**Additional Student Learning Outcomes that meet SUNY General Education Requirements:**

Does this course meet a SUNY General Education requirement(s)?  Yes                       No

---

**Topical Outline:**

- General overview of New York geologic features, timeline, tectonic events, orogenies, rocks, and minerals.
  - Local geology of Western New York and Niagara Falls
  - Geology of Canadian Shield, Adirondack Mountains, and Hudson Highlands/ River Valley.
  - Geology of Tug Hill Plateau, Appalachian Plateau, and Helderberg Escarpment.
  - Glaciations in New York.
- 

**Signatures and Dates:**

**Discipline Director:** Nancy Bryant (director)

**Date:** 12/16/09

**Assistant Dean:**



**Date:** 1/12/2010

**Academic Affairs:** CR

**Date:** 1/12/2010

---

**Effective Date:** Spring 2010