Department: GEOL

Course No.: 107

Credits: 1

Title: Earth and Life Through Time (Lab)

Contact: Robert Thorson

Content Area: CA3 Science and Technology- Lab

Catalog Copy :(107) (Formerly offered as GEOL 1052.) Both semesters. One credit. Not open to students enrolled in or having passed GSCI 1050. Prerequisite: GSCI 1051. Students who complete both GSCI 1051 and 1052 may request GSCI 1051 be converted from a CA 3 Non-laboratory to a CA 3 Laboratory course. Laboratory complement to GSCI 1051. Provides an opportunity to work with specimens (minerals, fossils, rocks) terrain images, maps, physical models, and simulation experiments. Includes two local field trips.

Course Information: GEOL 107 is a laboratory add-on to GEOL 103**.**
The course grade will be based on a co-equal mixture of lab quizzes and lab reports.

c. Major Themes, issues, topics, etc. to be covered. This is the lab component for students who have taken GEOL 103. GEOL 103 covers the history of planet Earth, emphasizing how rock, air, water, and life interact at different scales to produce the earth's crust, landforms, life systems, natural resources, catastrophes, and climatic regimes. Provides a scientific context for human-induced global change.

CA3 Criteria : (See proposal for GEOL 103 or GEOL 105)

CA3 Lab Criteria: This is the same lab offered with GEOL 105. Lab sections will meet in classrooms dedicated to the course, and capable of holding up to 24 students each. We will schedule labs in the evenings as well as during the day in an attempt to accommodate the maximum number of students needing sections, and to meet their schedules.

Role of Grad Students: Most of these sections (we anticipate between 10 and 12) will be taught by Teaching Assistants, working under the close supervision of a geology faculty member designated as lab coordinator. One or more (depending on demand) sections will be designated as honors sections, and taught exclusively by faculty. These are exclusively hands on activities. During separate lab sessions, students will handle and identify minerals, rocks, fossils, hydrologic apparatus, aerial photographs, GIS software, and maps. Two of the lab periods are devoted to pedestrian field trips to drumlins, outcrops, landfills, marshes, stone walls, streams, and museums, all of which are available on campus. Please refer to the attached lab syllabus for details. (NB- one hasn't been supplied. A.H.)

Supplementary Information: With the consent of the instructor, the student will have the option of upgrading the GEOC non-lab course requirement to meet the GEOC lab requirement by adding GEOL

107. We expect students to select this option only in the semester following the lecture course GEOL 103, though two semesters will be considered. Consent will be required to ensure flexibility.