

GEOLOGY

GLG 105 INTRO TO PLANETARY GEOLOGY

3 Lecture 2 Lab 4 Credit Hours(s)

This course will introduce students to the fascinating geology of planets, dwarf planets, moons, asteroids, meteorites and comets within our Solar System. In addition students will study the current and past missions to these bodies. Topics covered in the classroom will include planetary formation, geomorphology, atmospheres and potential for future habitations. In addition, students will be introduced to new information regarding exo-planets and their associated exo-solar systems.

GLG 121 PHYSICAL GEOLOGY

3 Lecture 2 Lab 4 Credit Hours(s)

An introduction to the fundamental principles that shape planet earth. Emphasis is placed on understanding the processes of weathering and erosion, the origin of earthquakes, the formation of mountains and volcanoes and the drifting of continents. Laboratory study of common minerals and rocks and features of topographic and geologic maps. Field trips to significant geological localities are an integral part of the laboratory program.

GLG 124 THE EARTH THROUGH TIME

3 Lecture 2 Lab 4 Credit Hours(s)

The study of the origin and evolution of planet earth and its life through geological time. Special emphasis is placed on the development of North America, employing the newest concepts of plate tectonics and sea floor spreading. Laboratory study of fossils, geologic maps and structures. Field trips to significant geological localities are an integral part of the laboratory program.

GLG 126 ENVIRONMENTAL GEOLOGY

3 Lecture 2 Lab 4 Credit Hours(s)

The study of local, regional and global perspectives of environmental geological issues while focusing on earth materials and processes. Emphasis will be placed on both hazardous natural earth processes and man related environmental problems and solutions. Topics such as earthquakes, volcanic activity, flooding, landslides, groundwater pollution, soil pollution and mineral resource issues will be investigated. Laboratory and field labs work will be supplemented by field trips.

GLG 271 SPECIAL STUDY PROJECT I

1 Lecture 0 Lab 1 Credit Hours(s)

A special learning experience designed by one or more students with the cooperation and approval of a faculty member. Proposed study plans require departmental approval. Projects may be based on reading, research, community service, work experience, or other activities that advance the student's knowledge and competence in

the field of geology or related areas. The student's time commitment to the project will be approximately 35-50 hours.

GLG 272 SPECIAL STUDY PROJECT II

2 Lecture 0 Lab 2 Credit Hours(s)

Similar to GLG 271, except that the student's time commitment to the project will be approximately 70-90 hours.

GLG 273 SPECIAL STUDY PROJECT III

3 Lecture 0 Lab 3 Credit Hours(s)

Similar to GLG 271, except that the student's time commitment to the project will be approximately 105-135 hours.

GLG 291 FIELD GEOLOGY STUDY I

0 Lecture 3 Lab 1 Credit Hours(s)

An opportunity to learn about geological principles and processes through direct field study in a specific area or region. The student would be expected to do assigned readings in preparation for the trip and to attend one or more study sessions prior to their participation in the trip. At the end of the field study, the student will prepare and submit a field trip report. Students will be expected to bear certain costs for camping and travel. Each field study will have a specific title and description, depending on the area or region to be visited. The student's time commitment to the course will be approximately 35-50 hours.

Prerequisite: GLG 121 or PHS 102 or permission of the department

GLG 292 FIELD GEOLOGY STUDY II

1 Lecture 3 Lab 2 Credit Hours(s)

Similar to GLG 291, except that the student's time commitment to the course will be approximately 70-90 hours.

Prerequisite: GLG 121 or PHS 102 or permission of the department

GLG 293 FIELD GEOLOGY STUDY III

2 Lecture 3 Lab 3 Credit Hours(s)

Similar to GLG 291, except that the student's time commitment to the course will be approximately 105-135 hours.

Prerequisite: GLG 121 or PHS 102 or permission of the department

GLG 294 FIELD GEOLOGY STUDY IV

2 Lecture 6 Lab 4 Credit Hours(s)

Similar to GLG 291, except that the student's time commitment to the course will be approximately 120 - 140 hours.

Prerequisite: GLG 121 or PHS 102 or permission of the department