

CGS GEOLOGY (CGS GLG)

CGS GLG 100 Introduction to Geology

3 cr.

A brief study of minerals, rocks, fossils, geologic maps, and the processes creating and modifying the surface and subsurface features of earth.

Field trips may be required.

Prerequisites: none.

Course Rules: May not be taken for credit by students who have had CGS GLG 101.

General Education Requirements: NS

Last Taught: Fall 2022, Summer 2022.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CGS GLG 101 Physical Geology

4-5 cr.

Study of the physical nature of Earth: the processes in operation above, on and beneath the surface that continue to shape its physical evolution e.g. volcanism, plate tectonics, faulting and earthquakes, glaciation, rivers; the origin and nature of common minerals and rocks and their distribution in the world; landscapes and their origins e.g. mountain ranges, glacial forms, river valleys, etc.. Lab work includes the study of rocks and minerals, the interpretation of geological and topographic maps and aerial photographs, along with data, map and chart analysis. Two or four hours of lab per week depending on the credit. Field trips may be required.

Prerequisites: none.

Course Rules: May not be taken for credit by students who have had CGS GLG 100.

General Education Requirements: NS+

Last Taught: Spring 2023, Fall 2022.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CGS GLG 102 Historical Geology

4-5 cr.

Study of the history of the Earth, beginning with its place in the solar system. An introduction to common rocks and minerals, to geological principles and reasoning, and to concepts of geologic time. Study of how the physical geography of Earth has changed through time and how the changes in the rock record tell of seas, mountain ranges, deserts, and ice ages through geologic time. Study of the fossil record and how life on Earth has changed to cope with the varying physical environments of Earth. Two or four hours of lab per week depending on the credit. Field trips may be required.

Prerequisites: none.

General Education Requirements: NS+

Last Taught: Fall 2022, Fall 2021.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CGS GLG 135 Introduction to Environmental Geology

3 cr.

The physical environment and our interaction with it. Emphasis on Earth processes affecting humans, such as flooding, erosion, groundwater, landslides, and earthquakes. The impact of humans upon the environment along with the application of the science of geology to these impacts. Field trips may be required.

Prerequisites: none.

Course Rules: May not be taken for credit by students who have had GLG 169.

General Education Requirements: NS

Last Taught: Fall 2022, Fall 2021.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CGS GLG 169 Environmental Geology

4-5 cr.

The physical environment and our interaction with it. Emphasis on earth processes affecting humans, such as flooding, erosion, groundwater, landslides and earthquakes. The impact of humans upon the environment along with the application of the science of geology to these impacts. Air, water and soil pollution studied from a physical-chemical standpoint. The depletion of energy and mineral resources and the need for humans to design with nature.

Prerequisites: none.

Course Rules: Two or four hours of lab per week depending on the credit. Field trips may be required. May not be taken for credit by students who have had GLG 135.

General Education Requirements: NS+

Last Taught: Spring 2023, Spring 2022.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CGS GLG 170 Disasters-Living on the Edge

3 cr.

Study of various environmental hazards, their causes, impacts on humans, and mitigations.

Prerequisites: none.

Course Rules: CGS GEO 170 and CGS GLG 170 are jointly offered and count as repeats of one another.

General Education Requirements: NS

Last Taught: Spring 2023, Spring 2022.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CGS GLG 250 Global Sustainability & Climate Resilience

3 cr.

An interdisciplinary exploration of current sustainability issues and solutions, taking both global and local perspectives through the lenses of the geosciences and other fields in the natural sciences.

Prerequisites: none.

Course Rules: CGS GEO 250 and CGS GLG 250 are jointly offered and count as repeats of one another. Counts as a repeat of CGS INT 290 and CGS INT 283 with similar topic.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CGS GLG 270 Global Climate Change: Past, Present, and Future

3 cr.

Examines contemporary scientific thought on the cycles of climate change, past climate conditions, current state of the atmosphere, and predictions for future change/adaptation strategies.

Prerequisites: none.

Course Rules: CGS GEO 270 and CGS GLG 270 are jointly offered and count as repeats of one another.

Current Offerings: <https://catalog.uwm.edu/course-search/>