

GEOL 1114H General Geology Honors

Catalog Description: Survey of the geological process and products and their relationship to land forms, natural resources and the environment. Global Positioning System (GPS) field work techniques introduced. Three hours of lecture and 3 hours of laboratory weekly, including field trips. This is an Honors course. Please refer to the NWACC Honors Program section in the current catalog for more information.

Prerequisite: None

Credit hours/ Contact hours/ Load hours: 4/6/5

Target Audience/ Transferability: This course is suitable for both science and non science majors. It meets the general education requirements for a physical science (with lab) for many baccalaureate programs. Students should check with their transfer institutions to confirm how this course would be counted as part of their specific degree plan.

Student Learning Outcomes: Students completing this course will:

- Use the scientific method in the study of geology.
- Possess a foundation in geology prerequisite for higher level geology course.
- Relate geological principles to issues of societal relevance.
- Identify geological processes resulting in different types of landforms.
- Identify geological processes resulting in different types of rocks.
- Identify common rocks and minerals.
- Acquire a working knowledge of how to read and interpret topographical maps and aerial and satellite images.
- Demonstrate the ability to utilize Global Positioning Systems.

Honors Program Learning Outcomes: Students who graduate from the NWACC Honors Program will become proficient in:

- Critical Thinking
 - Apply classroom learning to new problems and life situations
 - Analyze and evaluate evidence
 - Creatively develop original ideas and arguments
- Effective Communication
 - Express ideas and concepts precisely and persuasively in multiple formats
 - Effectively debate ideas and arguments in individual and group settings
- Community Engagement
 - Apply classroom knowledge to local or national issues
 - Serve the community through projects and presentations
 - Demonstrate responsible citizenship
- Valuing Diversity
 - Recognize and evaluate bias, stereotyping, and discrimination in human interaction

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- Respect cultural differences
- Leadership
 - Formulate own leadership style through study of effective leadership methods
 - Develop skills in leading groups and projects
 - Use knowledge or education to influence others

Topics:

- Earth's interior & plate tectonics
- Chemistry & minerals
- Intrusive rocks
- Volcanic rocks
- Weathering & soils
- Sedimentary rocks
- Metamorphic rocks
- Geologic time
- Mass wasting
- Stream processes
- Ground water
- Glacial processes
- Deserts
- Coastline processes
- Structural Geology
- Earthquakes & Seismology
- The Sea Floor
- Geologic Resources

Forms of Assessment:

Lab practical exams should be included as part of grading