Course # GEOL 103 Historical Geology Credit Hours: 3 Scheduled hours per week Lecture: 3 Lab: 0

Catalog Course Description: An introduction to the study of the origin of the Earth and its evolutionary development through time are presented. The concepts of geologic time, organic evolution, and plate tectonics are fundamental themes used to unravel Earth history. In this context, present and past interactions of Earth's subsystems (the lithosphere, biosphere, hydrosphere, and atmosphere) are studied

Pre-requisites: GEOL 101/ GEOL 102, or PSCI 112/PSCI 112L

Co-requisites: GEOL 104

Course Learning Outcomes (CLO):

- Ability to demonstrate an understanding of historical geologic processes including: rocks and minerals, basic geologic processes, origin of earth and life and the evolutionary development through time, chronological order of the earth's history, organic evolution, plate tectonics, and reconstruction of earth's paleo-environments.
- Use critical thinking and scientific problem-solving skills, including, but not limited to, inferring, integrating, synthesizing, and summarizing, to make decisions, recommendations, and predictions.
- Capability to correctly make observations and/or take measurements and use scientific formulas for problem solving.
- Communicate the results of scientific investigations, analyze data and formulate conclusions.

CLO Assessment Methods:

Direct: Exams, quizzes, presentations, research presentation, and prepared assignments.

Indirect Methods: Course Evaluations

Topics to be studied:

- Origin of Earth and evolutionary development through time
- Physical evolution the planet and life on earth.
- Chronological order of the Earth's history
- Concepts of time
- Organic evolution

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- Plate tectonics
- Reconstruction of Earth's paleoenvironments

Relationship of Course to Program Learning Outcomes (PLO) or Institutional Learning Outcomes:

Check if approved as: 🗵 Foundational Learning Course 🛛 🗆 Reinforcement Learning Course

Special requirements of the course:

N/A

Additional information:

N/A

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