Outcome Assessment Timeline

Academic Programs

Geology

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| **APR /SLO 3-Year Cycle** | **2021-2024** | | |
| **Course ID** | **Course-Level Student Learning Outcome (CSLO)** | **Measure/Collect Data** | **Discuss & Plan** |
| **GEOL 100** | Student will evaluate and describe qualitatively the origin of earthquakes and the mechanisms of plate tectonics. | Fall 2021 | Fall 2022 |
|  | Student will identify rocks and describe their formational processes. | Fall 2021 | Fall 2022 |
|  | Student will describe the concept of geologic time. | Fall 2021 | Fall 2022 |
|  | Student will compare and contrast Earth's landforms. | Fall 2021 | Fall 2022 |
| **GEOL 101** | Student will identify and describe theories of plat tectonics, continental drift, and the origin of minerals. | Spring 2022 | Spring 2023 |
|  | Student will identify a selected number of rock specimens. | Spring 2022 | Spring 2023 |
| **GEOL 104** | Student will describe the basic physics of weather and climate. | Fall 2021 | Fall 2022 |
|  | Student will identify, evaluate, and analyze anthropogenic influences to pollution, climate change, and changes to the landscape. | Fall 2021 | Fall 2022 |
|  | Student will describe the basic physics, biology, and chemistry as they apply to ocean composition and behavior. | Fall 2021 | Fall 2022 |
|  | Student will compare and contrast the planets in terms of interiors, surfaces, and atmospheres. | Spring 2022 | Spring 2022 |
|  | Student will analyze the composition and structure of the atmosphere. | Spring 2022 | Spring 2022 |
| **GEOL 110** | Student will identify and appraise major ecological problems associated with the sea. | Fall 2021 | Fall 2022 |
|  | Student will identify the basic principles of physics and chemistry as they apply to ocean composition and behavior. | Fall 2021 | Fall 2022 |
|  | Student will evaluate the impact of people on the fragil interfaces of the ocean environment. | Fall 2021 | Fall 2022 |
| **GEOL 115** | Student will communicate complex course concepts effectively in writing and diagrams. | Spring 2022 | Spring 2022 |
|  | Student will assess and evaluate the concept of geologic time, the origin of the earth and solar system, patterns of evolution and paleobiology, and the development and movement of continents through time. | Spring 2022 | Spring 2023 |
|  | Students will use print material and technology to identify research needs and develop and evaluate information effectively and responsibly. | Spring 2022 | Spring 2023 |
| **Program**  **2020 – 2023** |  | **Measure/Collect Data** | **Discuss & Plan** |
| **Geology 01785**  Associate In Science | Students will have basic knowledge and understanding of the content of modern geology. Specifically, they will be able to explain the nature of tectonic forces in the Earth’s crust and their effects on most geological processes, understand and be able to explain geologic time and fossil record, and understand and be able to explain basic surface processes and human interrelationships with Earth’s surface. | 2020 - 2023 | Fall 2023 |
|  | Students will acquire knowledge and demonstrate skills to collect and analyze Earth’s minerals and rocks. Specifically, they will demonstrate the skills necessary to gather and interpret field and other types of geologic data, identify samples of basic mineral and rock material found on Earth’s surface, understand and be able to explain the basic physical and chemical attributes of Earth’s minerals and rocks, and explain how Earth’s basic minerals and rocks form chemically and physically. |  |  |
|  | Students will demonstrate a basic understanding of the foundations of physical geology, including the development of surface features, internal and external physical processes, and basic geochemical processes. |  |  |

**Directions & Helpful Hints**

In the spaces provided on the timeline, please list course-level and program-level student learning outcomes and when each will be assessed.

**APR/SLO 3-Year Cycle**: The APR/SLO cycle begins with a compressive program review and ends just before the next comprehensive is due.

**Course ID:** Insert course designator (e.g., ENGL 114, MATH 60, COMM 103)

**Course-Level Student Learning Outcome (CSLO):** Write in each CSLO listed on the course outline of record. This can be accessed in CurricUNET.

**Measure:** Insert the semester(s) each CSLO will be measured, and entered into eLumen.

**Discuss & Plan:** State the semester the faculty will meet to discuss assessment results and create action plans as needed.

**Program:** State the program being assessed.

**Program-Level Student Learning Outcome (PSLO):** State the PSLO(s) for each program listed.

Considerations for Completing the SLO Assessment Timeline:

As per the SCEA contract, “The timeline shall ensure that all SLOs in all sections for each course are to be assessed at least once during the 3-year cycle, with a maximum number of course SLOs per section collected by a Unit member at any one time being three (3)”.

According to the ACCJC Standard II.A.3, “The institution identifies and regularly assesses learning outcomes for courses, programs, certificates. And degrees using established institutional procedures.”