

# Assessment: Assessment Plan

## Degree Program - AS - Geosciences (BA)

**CIP Code:** 40.0601.00

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**Program Purpose Statement:** The College of Arts and Sciences offers a broad spectrum of programs and courses in the liberal arts; humanities; mathematics; and social behavioral, and natural sciences. The primary function of the college is to impart to students the knowledge skills of thinking and communicating, and values and attitudes that constitute a liberal education. The faculty of the college seeks to instill in their students a humanistic spirit, an appreciation of creativity, a commitment to excellence and truth, an ability to think critically and communicate effectively and a desire for lifelong learning.

The courses and programs in the college also provide a base of knowledge and skills form which students may enter such professional fields of study as law and medicine.

**Modality:** Face-to-Face

### Student Learning Outcome: Knowledge of Earth Materials

Students will understand minerals, rocks, and the environments in which they occur.

**Outcome Status:** Active

**Outcome Type:** Student Learning

**Start Date:** 09/01/2021

#### Assessment Methods

**Exam** - Students will take an entrance and exit exam for the following sequence of courses: GEOL 3401, GEOL 3321, and GEOL 3325. Students will take the same exam four times, once at the beginning of each course in the sequence and at the end of GEOL 3325. (Active)

**Criterion:** The average assessment score during the four-exam sequence will demonstrate growth of 20% or higher for the entire cohort of students.

**Schedule:** Students will take the same exam four times, once at the beginning of each course in the sequence and at the end of GEOL 3325.

**Related Documents:**

[UG assessment\\_BA.pdf](#)

**Exam** - Students will take a final post exam in GEOL 3325 that covers material from a three course sequence of GEOL 3401, GEOL 3321, and GEOL 3325. (Active)

**Criterion:** The final exam will demonstrate an average assessment score of 70% or higher for the entire cohort of students.

**Schedule:** Exam will be administered ever fall semester at the end of GEOL 3325.

**Related Documents:**

[UG assessment\\_BA.pdf](#)

### Student Learning Outcome: Spatial Distribution of Rock Bodies

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Students will understand the spatial distribution of rock types in various geologic environments.

**Outcome Status:** Active

**Outcome Type:** Student Learning

**Start Date:** 09/01/2021

## Assessment Methods

**Exam** - Students will take an entrance and exit exam for the following sequence of courses: GPH 3300, GEOL 3402, and GEOL 4327. Students will take the same exam four times, once at the beginning of each course in the sequence and at the end of GEOL 4327. (Active)

**Criterion:** The average assessment score during the four-exam sequence will demonstrate growth of 20% or higher for the entire cohort of students.

**Schedule:** Students will take the same exam four times, once at the beginning of each course in the sequence and at the end of GEOL 4327.

**Related Documents:**

[UG assessment\\_BA.pdf](#)

**Exam** - Students will take a final post exam in GEOL 4327 that covers material from a three course series of GPH 3300, GEOL 3402, GEOL 4327. (Active)

**Criterion:** The final exam will demonstrate an average assessment score of 70% or higher for the entire cohort of students.

**Schedule:** Students will take the exam every spring semester at the end of GEOL 4327.

**Related Documents:**

[UG assessment\\_BA.pdf](#)

## Student Learning Outcome: Professional Preparation

Students will effectively communicate science through a written report including drafting of geologic maps and cross-sections. Data analysis will be inherent in the project.

**Outcome Status:** Active

**Outcome Type:** Student Learning

**Start Date:** 09/01/2021

**Additional Assessment Component:** Communication Literacy

## Assessment Methods

**Capstone Assignment/Project** - Instructor assessed reports from GEOL 4201. Report includes construction of geologic map, geologic cross-sections of the geometry of rocks in the subsurface with a written analysis of the geology of the region. (Active)

**Criterion:** Average assessment of the entire cohort of students will be 65%.

**Schedule:** Reports will be assessed every Spring semester.

**Related Documents:**

[UG assessment\\_BA.pdf](#)

**Capstone Assignment/Project** - Instructor assessed reports from GEOL 4301. Report includes construction of geologic map, geologic cross-sections of the geometry of rocks in the subsurface with a written analysis of the geology of the region. (Active)

**Criterion:** Average assessment score for the entire cohort of students will be 70% or higher. It is expected that the class will demonstrate growth from the reports assessed for GEOL 4201.

**Schedule:** Reports will be assessed at the end of every summer semester at the end of GEOL 4301: Advanced Field Methods.

**Related Documents:**

[UG assessment\\_BA.pdf](#)

