Geology Department overall program goals

I. Students are prepared for professional and/or graduate study involving the geosciences;
II. Students develop a deep understanding of Earth systems: how Earth systems work and how they interact;
III. Students develop their ability to solve geologic problems through the use of scientific method;
IV. Students develop the quantitative skills necessary to solve geologic problems;
V. Students develop their technical communication skills: seeking and processing technical information; and communicating technical information and conclusions in both oral and written form.

Summary of Assessment Data:

- Student Knowledge Inventory
- Geology 188 field maps and assignments
- Geology 111B field maps and assignments
- Embedded quantitative assignments from majors courses
- Writing rubrics from required assignments

Summary of Assessment Tasks for 2019-2024

Year	Periodic Tasks	Yearly Tasks
2019-20	Quantitative review	1. Administer SKI; compile results & review. 2. Collect Geology 188 rubrics, Cross-sections and select maps 3. Collect Geology 111B rubrics, Cross-sections and maps. 4. Collect writing rubrics 5. Collect oral presentation rubrics 6. Collect embedded quantitative assignment from one course
2020-21	Oral communication review	
2021-22	Geology 188 and 111B review	
2022-23	Written communication review	
2023-24	SKI longitudinal review	

BA in Geology

Program Learning Outcome	Assessment Method s)	Performance Standard	Assessment Schedule
Students will master a set of fundamental geologic concepts essential to understanding and solving geologic problems	Student Knowledge Inventory	70% of seniors answer questions in each domain correctly	Every Fall, administered in Geology 100. Every spring administered in Geology 110A. Collect data yearly, review annual data yearly, do longitudinal review once
Students will be proficient in solving geologic problems	Field assignments from Geology 188	TBD	Collect every year, review once.
Students will be proficient in using quantitative skills to solve geologic problems	Embedded assignments, select exam problems/questions	70 % of students answer questions/work problems correctly	Sample one course every year. Analyze data once in 6 year cycle.
Students will be proficient in understanding and producing geologic maps.	Field assignments from Geology 188	TBD	Collect every year, review once.
Students will be proficient writers, skilled in the genres of scientific and technical writing	Review rubrics from required writing assignments: - Field report from Geology 188B - Literature review from an elective course	70% of students demonstrate Milestone 2 on revised Written Communication VALUE Rubric	Review once in 5 year cycle.

BA in Geology

Program Learning Outcome	Assessment Method s)	Performance Standard	Assessment Schedule
Students will master a set of fundamental geologic concepts essential to understanding and solving geologic problems	Student Knowledge Inventory	70% of seniors answer questions in each domain correctly	Every Fall, administered in Geology 100. Every spring administered in Geology 110A. Collect data yearly, review annual data yearly, do longitudinal review once
Students will be proficient in solving geologic problems	Field assignments from Geology 111B	TBD	Collect every year, review once.
Students will be proficient in using quantitative skills to solve geologic problems	Embedded assignments, select exam problems/questions	70 % of students answer questions/work problems correctly	Sample one course every year. Analyze data once in 6 year cycle.
Students will be proficient in understanding and producing geologic maps.	Field assignments from Geology 111B.	TBD	Collect every year, review once.
Students will be proficient writers, skilled in the genres of scientific and technical writing	Review rubrics from required writing assignments: - Field report from Geology 111B - Literature review from an elective course	70% of students demonstrate Milestone 2 on revised Written Communication VALUE Rubric	Review once in 5 year cycle.

BA in Earth Science

Program Learning Outcome	Assessment Method s)	Performance Standard	Assessment Schedule
Students will master a set of fundamental geologic concepts essential to understanding and solving geologic problems	Student Knowledge Inventory	70% of seniors answer questions in each domain correctly	Every Fall, administered in Geology 100. Every spring administered in Geology 110A. Collect data yearly, review annual data yearly, do longitudinal review once
Students will be proficient in solving geologic problems	Field assignments from Geology 111B	TBD	Collect every year, review once.
Students will be proficient in using quantitative skills to solve geologic problems	Embedded assignments, select exam problems/questions	70 % of students answer questions/work problems correctly	Sample one course every year. Analyze data once in 6 year cycle.
Students will be proficient in understanding and producing geologic maps.	Field assignments from Geology 111B.	TBD	Collect every year, review once.
Students will be proficient writers, skilled in the genres of scientific and technical writing	Review rubrics from required writing assignments: - Field report from Geology 111B - Literature review from an elective course	70% of students demonstrate Milestone 2 on revised Written Communication VALUE Rubric	Review once in 5 year cycle.