

Program Learning Outcomes

I= Introduced
R= Reinforced
M= Mastered

Program Name: Geology B.A.

Date: 12/18/20 rev. -7-22

Program Learning Outcome:	Courses Mapped to Outcomes
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Knowledge, skill, or behavior students can demonstrate upon program completion
GES 100

Program Learning Outcomes: Assessment Tools

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Program Learning Outcome Knowledge, skill, or behavior students can demonstrate upon program completion	Measurement Tool	Timeline/Frequency of Assessment	Target	Review	
1	Observe, record, and interpret geological features in the field.	GES 341 fieldbooks, journals, or reports	Every 3 years, beginning 2022 2023	80% of reports acceptable as professional field notes	Department review of results
2	Understand the theoretical underpinnings and methods of data analysis, including quantitative analysis, that uniquely undergird specific subdisciplines within geosciences	Evaluative assessments in individual Mastery courses. Exam questions or assignments deemed as testing mastery are collected for review.	Every 3 years, beginning 2022 2023	80% of artifacts demonstrate mastery of target skill for the assignment	Department review of results
3	Read, understand, and write geological literature.	"Appropriate use of literature" included as a component of the grade for at least one assignment in each Mastery course. This component is recorded separately and reviewed across a subset of mastery courses during Department Assessment Retreat.	Every 3 years, beginning 2022 2023	80% of artifacts demonstrate mastery of target skill for the assignment	Department review of results
4	Describe, classify, and interpret common geological materials and structures.	Evaluative assessments in individual Mastery labs. GES 243, GES 252, and GES 453 retain a sample assignment for review.	Every 3 years, beginning 2022 2023	80% of artifacts demonstrate mastery of target skill for the assignment	Department review of results
5	Understanding plate tectonics as the unifying theory in geology.	Summary exam question in GE 203, retained and reviewed.	Every 3 years, beginning 2022 2023	80% of questions reviewed demonstrate understanding	Department review of results

	features to reconstruct natural history.				
7	Understand the scientific process: posit scientific hypotheses, devise ways to test them by collecting scientific data, and analyze data in a meaningful way.	Mastery courses retain a sample assignment	Every 3 years, beginning 2022 2023	80% of assignments evaluated demonstrate understanding	Department review of results