Central Washington University

Student Learning Outcome Assessment Plan

Department: Geological Sciences
Degree Program: BS-Geology, BA-Geology

Student Learning Outcome (performance, knowledge, attitudes)	**Related CWU Strategic Outcome(s)** http://www.cwu.edu/strategic-planning/	**Method(s) of Assessment (What is the assessment?)***	**Who Assessed (Students from what courses - population)****	**When Assessed (term, dates)*****	**Standard of Mastery/ Criterion of Achievement (How good does performance have to be?)**
1) Present an analysis of data and interpretations orally and in a professionally written report	1.1.1 Students will achieve programmatic learning outcomes.	Instructor evaluation of literature-based and original research papers, laboratory and field based research projects, oral presentations in class, laboratory, disciplinary and other meetings and in 300/400-level classes	Undergraduates enrolled in upper division classes	Fall, winter, spring quarters	85% of students get rubric grade of 2 or better on such assignments
		Faculty mentor evaluation of independent scholarship project	Undergraduates enrolled in GEOL 495	Fall, winter, spring quarters	90% of students enrolled receive passing grade
2) Critically interpret published scientific literature; differentiate data from interpretation	1.1.1 Students will achieve programmatic learning outcomes.	Instructor evaluation of literature-based and original research papers, directed reading assignments	Undergraduates enrolled in upper division classes	Fall, winter, spring quarters	85% of students get rubric grade of 2 or better on such assignments
		Faculty mentor evaluation of independent scholarship project	Undergraduates enrolled in GEOL 495	Fall, winter, spring quarters	90% of students enrolled receive passing grade
3) Interpret representations of data, including graphs, maps, cross-sections	1.1.1 Students will achieve programmatic learning outcomes.	Instructor evaluation of laboratory exercises, exams.	Undergraduates enrolled in 200, 300 and 400-level classes	Fall, winter, spring quarters	85% of students get rubric grade of 2 or better on such assignments

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4) Demonstrate working knowledge of standard geologic reference tools and resources, e.g. library, web, computer databases	1.1.1 Students will achieve programmatic learning outcomes.	Instructor evaluation of literature-based and original research papers, laboratory assignments.	Undergraduates enrolled in 200, 300 and 400-level classes	Fall, winter, spring quarters	85% of students get rubric grade of 2 or better on such assignments
5) Calculate quantitative problems in the discipline	1.1.1 Students will achieve programmatic learning outcomes.	Instructor evaluation of homework assignments, laboratory exercises, exams.	Undergraduates enrolled in 200, 300 and 400-level classes	Fall, winter, spring quarters	85% of students get rubric grade of 2 or better on such assignments
6) Demonstrate knowledge of core areas of geology	1.1.1 Students will achieve programmatic learning outcomes.	Competency test in capstone class (GEOL 487)	Undergraduates enrolled in capstone class (GEOL 487)	Winter quarter, senior year	70% of students must achieve a numerical score of 75% or higher on competency test on first try.

*Method(s) of assessment should include those that are both direct (tests, essays, presentations, projects) and indirect (surveys, interviews) in nature
**Data needs to be collected and differentiated by location (Ellensburg campus vs University Centers) and modality (face-to-face, online)
***Timing of assessment should ideally be at different transition points of program (i.e., admission, mid-point, end-of-program, post-program)

Assessment Cycle

Analysis and Interpretation: December
Improvement Actions: Completed by June
Dissemination: Completed by June

Year SLOs	15-16	16-17	17-18	18-19	19-20	20-21
1			x	x		x
2			x	x		x
3	x	x			x	
4			x	x	x	
5	x	x			x	
6	x	x				x

Assessment Oversight

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