

Student Learning Outcome Assessment Plan

Department: Geological Sciences Degree Program: Environmental Geological Sciences

Student Learning Outcome (performance, knowledge, attitudes)	Related CWU Strategic Outcome(s) http://www.cwu.edu/	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) Gain experience in conducting original research, developing a hypothesis or research questions, predictions, data gathering and analysis, and literature review. Present analysis either orally or in a profactionally, written	1.1.1 Students will achieve programmatic learning outcomes. 3.1.2 Sustain the number of courses that include research, scholarship, and graative avpression	Instructor evaluation of literature-based and original research papers, laboratory and field based research projects, oral presentations in class, laboratory, disciplinary and other meetings in 300/400-level classes	Undergraduates enrolled in upper division classes (e.g. GEOL 380, 386, 445, 425, 483 and upper division electives)	Fall, winter, spring quarters	85% of students get grade of C or better on designated assignments
report	skills as key outcomes.	independent scholarship project	GEOL 495	spring quarters	90% of students enrolled receive passing grade
2) Interpret representations of data (e.g. graphs, maps, cross- sections) including uncertainties, differentiate data from interpretation	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 grade of C or better on designated assignments or exams
3) Apply quantitative reasoning skills to problems in environmental geology	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 grade of C or better on designated assignments or exams

Student Learning	Related CWU Strategic	Method(s) of Assessment (What is the assessment?)*	Who Assessed (Students	When Assessed	Standard of Mastery/ Criterion of Achievement (How good does performance
knowledge, attitudes)	Outcome(s)	(what is the assessment.)	population)**	dates)***	have to be?)
into interge, attitudes)	http://www.cwu.edu/ strategic-planning/		population		
4) Become familiar with environmental policies and practices, e.g. responsible ways to recover, use, and conserve non-renewable geological resources; environmental hazard mitigation	1.1.1 Students will achieve programmatic learning outcomes.	Instructor evaluation of homework assignments, laboratory exercises, exams	Undergraduates enrolled in upper division classes (e.g. GEOL 380, 445, 425 and certain upper division electives)	Fall, winter, spring quarters	85% of students get grade of C or better on designated assignments or exams
5) Demonstrate knowledge of core areas of environmental geology, e.g. processes and risks associated with natural and anthropogenic environmental hazards.	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)

rev. 11/14

Assessment Cycle

Analysis and Interpretation:DecemberImprovement Actions:Completed by JuneDissemination:Completed by June

Year SLOs	15-16	16-17	17-18	18-19	19-20	20-21
1			х	х	х	
2	Х	Х			Х	
3	х	Х			Х	
4			Х	Х		Х
5	Х	Х				Х

Assessment Oversight

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