

CWU Student Learning Outcome Assessment Plan
 Department: **Geological Sciences**
 Programs: **B.S. Geology, BA Geology**

Student Learning Outcomes (performance, knowledge, attitudes)	Related Program/ Departmental Goals	Related College Goals	Related University Goals	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. Students will demonstrate the knowledge, skills, and attitudes to be successful in their chosen field of geological sciences, including fundamental understanding of a variety of Earth processes and their relevance to humans. 4. Faculty, scientific staff and students will make relevant scientific contributions to the geological sciences through scientific inquiry, acquisition of	I: Provide for an outstanding academic and student experience in COTS	One: Maintain and strengthen an outstanding academic and student life on the Ellensburg campus.	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 Faculty mentor evaluation of independent scholarship project	Undergraduates enrolled in upper division classes Undergraduates enrolled in GEOL 495	Fall, winter, spring quarters Fall, winter, spring quarters	85% of students get grade of C or better on such assignments 90% of students enrolled receive passing grade

	external funding, local, regional and national presentations, and through a variety of types of publications and reports.						
2) Critically interpret published scientific literature; differentiate data from interpretation	1	I	One	Instructor evaluation of literature-based and original research papers, directed reading assignments Faculty mentor evaluation of independent scholarship project	Undergraduates enrolled in upper division classes Undergraduates enrolled in GEOL 495	Fall, winter, spring quarters Fall, winter, spring quarters	85% of students get grade of C or better on such assignments 90% of students enrolled receive passing grade
3) Interpret representations of data, including graphs, maps, cross-sections	1	I	One	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 such assignments
4) Demonstrate working knowledge of standard geologic reference tools and resources, e.g. library, web, computer databases	1	I	One	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 grade of C or better on such assignments
5) Calculate quantitative problems in the discipline	1	I	One	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 such assignments
6) Demonstrate knowledge of core areas of geology	1	I	One	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

2/21/18

							75% or higher on competency test on first try.
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*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 – see NWCCU standard 2.B.2) Geological Sciences programs are all delivered at the Ellensburg campus.**

***Timing of assessment should be identified at different transition points of program (i.e., admission, mid-point, end-of-program, post-program)