CWU Student Learning Outcome Assessment Plan
Department: **Geological Sciences**
Program: **B.S. Environmental Geological Sciences**

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) 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 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	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 in 300/400-level classes Faculty mentor evaluation of independent scholarship project	Undergraduates enrolled in upper division classes (e.g. GEOL 380, 386, 445, 425, 483 and upper division electives) Undergraduates enrolled in GEOL 495	Fall, winter, spring quarters Fall, winter, spring quarters	85% of students get grade of C or better on designated assignments 90% of students enrolled receive passing grade

	geological sciences through scientific inquiry, acquisition of external funding, local, regional and national presentations, and through a variety of types of publications and reports.						
2) Interpret representations of data (e.g. graphs, maps, cross-sections) including uncertainties, differentiate data from interpretation	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 designated assignments or exams
3) Apply quantitative reasoning skills to problems in environmental geology	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 designated assignments or exams
4) Become familiar with environmental policies and practices, e.g. responsible	1	1	One	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

ways to recover, use, and conserve non-renewable geological resources; environmental hazard mitigation							
5) Demonstrate knowledge of core areas of environmental geology, e.g. processes and risks associated with natural and anthropogenic environmental hazards.	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 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 – see NWCCU standard 2.B.2). **Environmental Geological Sciences major offered only on Ellensburg campus.
***Timing of assessment should be identified at different transition points of program (i.e., admission, mid-point, end-of-program, post-program)