**Student Learning Outcomes (performance, knowledge, attitudes)** | 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) Critically interpret published scientific literature; differentiate data from interpretation<br>**Method(s) of Assessment:** Instructor evaluation of literature-based and original research papers, directed reading assignments, oral presentations in class, laboratory, disciplinary and other meetings<br>**Who Assessed:** Graduate students enrolled in GEOL 501, 502, 503 and other 500-level classes<br>**When Assessed:** Fall, winter, spring quarters<br>**Standard of Mastery/ Criterion of Achievement:** 85% of students get rubric grade of 2 or better on such assignments

2) Design and implement an original research project that develops multiple hypotheses, predictions from hypotheses, data-gathering strategy, data analysis, evaluation of uncertainties, interpretation, and literature review<br>**Method(s) of Assessment:** Instructor evaluation of research proposal, laboratory and field reports<br>**Who Assessed:** Graduate students enrolled in GEOL 503<br>**When Assessed:** Winter quarter<br>**Standard of Mastery/ Criterion of Achievement:** 85% of students get rubric grade of 2 or better on such assignments and 20-25% per year receive funding in internal or external competition

3) Present and interpret results of original research, both orally and in writing, using standard geoscience reference tools, formats and conventions (including statistics, georeferencing, plotting, etc.)<br>**Method(s) of Assessment:** Chair and committee member evaluation of written thesis, final thesis oral presentation (defense)<br>**Who Assessed:** Acceptance of conference abstracts, peer reviewed journal articles or equivalent (e.g., book chapters)<br>**When Assessed:** Fall, winter, spring quarters<br>**Standard of Mastery/ Criterion of Achievement:** 85% of students get rubric grade of 2 or better on such assignments and 25% of graduate students present at local, regional or national meeting, 25% successfully publish work in peer-reviewed journal (mostly post graduation)

4) Establish competency in solving quantitative problems, using correct units and significant figures, and representing geologic data on cross-sections and maps.<br>**Method(s) of Assessment:** Chair and committee member evaluation of written thesis, final thesis oral presentation (defense)<br>**Who Assessed:** Acceptance of conference abstracts, peer reviewed journal articles or equivalent (e.g., book chapters)<br>**When Assessed:** Fall, winter, spring quarters<br>**Standard of Mastery/ Criterion of Achievement:** 85% of students get rubric grade of 2 or better on such assignments

*Method(s) of assessment should include those that are both direct (tests, essays, presentations, projects) and indirect (surveys, interviews) in nature<br>**Data needs to be collected and differentiated by location (Ellensburg campus vs. University Centers – see NWCCU standard 2.B.2) **MS program only offered at Ellensburg campus.***Timing of assessment should be identified at different transition points of program (i.e., admission, mid-point, end-of-program, post-program)