Assessment: Course Four Column

Courses (SCI) - Geology

GEOL 333:Principles of Geomorphology

Course Outcomes	Assessment Measures	Results	Actions
Identify key physical characteristics of landforms and landscapes - Identify key physical characteristics of landforms and landscapes in the field, from photographs, satellite images or from description. **Course Outcome Status:** Active **Next Assessment:** 2021-2022 **Start Date:** 10/23/2017	**Project -** Final paper and presentation – with focus on figures and photos used in the final presentation **Criterion:** 80% of students earn a 70% or higher	**Reporting Period:** 2016-2017 **Criterion Met:** N/A The professor of GEOL 333 was required to take family medical leave the last week of the semester when presentations were scheduled. Only one student presented face to face, the rest of the students submitted the assessment via WebCampus. Two of the components of the rubric could not be accurately addressed due to these circumstances, so results for this outcome are not available. (10/23/2017)	**Action:** PLAN: More field experience and lab activities would help improve this outcome. Background: Although the rubric could not be applied to this outcome due to the professor's circumstances, qualitative observations indicate students need more experience with identifying key features shown in photographs or satellite images. (10/23/2017)
Interpret and present geomorphic data using spreadsheets, figures and tables - Interpret and present geomorphic data using spreadsheets, figures and tables **Course Outcome Status:** Active **Next Assessment:** 2021-2022 **Start Date:** 10/23/2017	**Project -** Final paper and presentation **Criterion:** 80% of students earn a 70% or higher	**Reporting Period:** 2016-2017 **Criterion Met:** Yes Average grade on the final paper was 77% (10/23/2017)	**Action:** Help students in the writing processes by providing due dates for draft milestones. This strategy works well in INT 369, and I plan to incorporate it in GEOL 333 if/when I teach it in the future. (10/23/2017)
Identify processes, both natural and anthropogenic that drive geomorphic change. - Identify processes, both natural and anthropogenic that drive geomorphic	**Project -** Final paper and presentation **Criterion:** 80% of students earn a 70% or higher	**Reporting Period:** 2016-2017 **Criterion Met:** Yes Average grade on the final paper was 77% (10/23/2017)	**Action:** Plan: Continue to provide examples of how humans interact with and alter natural surface processes.

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change. **Course Outcome Status:** Active **Next Assessment:** 2021-2022 **Start Date:** 10/23/2017			Background: Some of the students in the course NAILED this component, for example: 1- discussing how the reintroduction of wolves into Yellowstone altered riparian geomorphology, 2 – how animals such as beavers interact with fluvial processes and alter stream dynamics. (10/23/2017) **Follow-Up:** This course was originally offered live, IAV and online. Only one student signed up for the live class and other students received lectures through lecture capture. GEOL 333 is the only upper division science course in BA NR program offered online. It does not work in this format. Although the Assessment Results are positive, the field component is severely lacking with only one required, full-day field trip. The field trip this semester was rained out and we spent the day in the lab, but it did not offer the same experience as observing landforms on the ground. Since we require students to travel to Elko for the field trip and because scheduling occurs months in advance, I am unable to reschedule on such short notice. The internal BA NR committee is planning to replace GEOL 333 with GEOL 335 – Earth Resources and the Environment, likely a better fit for the BA NR program. This course focuses on the following themes: Origin of

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			Resources, Metals, Energy, Fertilizer, Chemical, Construction & Industrial Resources, and Soil & Water. This course replacement would also increase program accessibility to students in the southern part of the state because there is not a lab component. (The statistics presented do not include two students who enrolled in the class but did not participate in any assessments. They did not withdraw from the class and their final grades of F would have skewed the results.) (10/23/2017)