Geology BS Assessment Plan

SLO	Year assessed	Summary of Measures	Summary of Outcomes
1. Produce and interpret a geological cross-section	2014-2015	Direct and indirect evaluation from GEOL 380. Marble Mountains project and student self-assessment survey.	94% of students earned a C (73%) or better on the project: exceeding success criteria. 74% earned a 9 (75%) or higher on the survey, not meeting success criteria. Students are not confident in their abilities.
2. Identify geological materials and explain their geologic significance	2015-2016	Direct measures of labs and projects in Geology 101, Geology 303A and Geology 303B, included back data of projects from Geology 303A. Indirect measures of students in Geology 303B with self-assessment survey.	Geology 101 igneous rock lab success criteria exceeded with 97% scoring a C or higher in Spring 2016. Geology 303A criteria exceeded in Fall 2014 with 88% scoring a C or higher, but criteria not met in Fall 2015 with 79% scoring a C or higher. Geology 303B criteria exceeded with 85% scoring a C or higher in Spring 2016. Geology 303B self-evaluation survey had 69% of students scoring a 9 (75%) or higher, not meeting success criteria, however only 13 of 20 students completed the survey.
3. Apply mathematics, chemistry, biology and/or physics to help clarify the mechanisms behind major Earth systems	N/A – 2017-2018	N/A - TBD	N/A - TBD
4. Develop a hypothesis, collect, test, and analyze data, and summarize results	2016-2017	Direct and indirect evaluation of posters at Research Day, Spring 2017. Will use iPad and standard rubrics.	N/A – (Spring 2017)
5. Communicate geoscience concepts to peers and/or public both orally and written	2015-2016	Direct and indirect evaluation of posters at Research Day, Spring 2016. Used iPad and standard rubrics, students were evaluated by 3 faculty.	Assessment success criteria were met (and exceeded) in all areas. 95% and 100% of students scored a C or better on poster rubric and self-assessment, respectively.

For the most up-to-date information, please contact the program.