

Student Learning Outcomes Assessment Summary

BS (Geological Engineering)

College of Engineering and Mines

2012-13, 2013-14

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1. Assessment information collected

- Course assessment based on faculty self-evaluation, performance indicators for each ABET outcomes and pre- and post-course surveys for an assigned set of ABET outcomes;
- Peer review by students in class;
- Exit interviews;
- Review by advisory board
- Reviews of alumni and employer surveys;
- FE exam results; and
- Student's presentation in professional meetings such as the annual AEG meeting.
- ABET visit report in 2011.

2. Conclusions drawn from the information summarized above

Each of the GE faculty is tasked to make certain that the contents of his/her courses are consistent with the ABET program outcomes. The following summarizes the conclusions drawn by the GE faculty group from the assessment results:

- Continuous improvement of courses and labs needs to be done.

3. Curricular changes resulting from conclusions drawn above

- No curricular changes have been done in this assessment period.
- Several curricular changes are in consideration by the GE faculty to ensure continuous improvement of the curriculum and to meet the program's educational objectives. For example,

- Replacing GEOS 332 Ore Deposits and Structure with GEOS 314 Structural Geology (offered in spring) due to its need in Field Methods class.
- Providing a choice between ES 346 Basic Thermodynamics or ES201 Computer Techniques towards completion of the degree.
- Replacing MIN 225 Quantitative Methods in Mining Engineering with STAT 300 Statistics.
- Combining some GE courses, for example: GE 375 Principles of Engineering Geology and Terrain Analysis and GE 371 Remote Sensing for Engineering.
- Substituting a different GEOS class for GEOS 322 Stratigraphy and Sedimentation due to pre-requisite conflict.

4. Identify the faculty members involved in reaching the conclusions drawn above and agreeing upon the curricular changes resulting

All GE faculty members were involved in reaching the conclusions drawn above and agreeing upon the curricular changes. The GE faculty members are:

Prof. Scott L. Huang

Prof. Paul A. Metz

Prof. Margaret M. Darrow

Prof. Debasmita Misra