**UNIVERSITY OF ALASKA FAIRBANKS**  
**Student Learning Outcomes Assessment Plan**  
**BS (Geological Engineering)**  
**College of Engineering and Mines**  
May 2014

### Expanded Statement of Institutional Purpose

**MISSION STATEMENT:**

To advance and disseminate knowledge related to mineral and energy exploration, evaluation, development and production; engineering site selection, construction and construction material production; and groundwater and geo-environmental engineering including geologic hazards assessment, through creative teaching, research and public service with an emphasis on Alaska, the North and its diverse peoples.

### GOAL STATEMENT:

- Graduates will be employed in one of the following professional areas: mineral and energy exploration and development; geotechnical engineering; groundwater engineering; or geo-environmental engineering.
- Graduates will possess technical knowledge required to meet the unique challenges of geological engineering problems germane to cold regions, especially Alaska.
- Graduates will pursue life-long learning through continuing education opportunities, professional registration/certification, and/or graduate studies.

### Intended Objectives/Outcomes

Meet Student Learning Outcomes as defined for ABET accreditation (12 learning outcomes).

### Assessment Criteria and Procedures

- a. Assessment of individual courses
- b. Program Review by Faculty
- c. Student survey
- d. Exit Interview of Graduates

### Implementation

- a. Learning outcomes for individual courses are assessed every semester by individual faculty members.
- b. Program Faculty reviews the program progressively and assesses the outcomes annually to arrive at an action plan for improvement if needed.
- c. Students are surveyed for course & program assessment as needed.
- d. Exit interviews are conducted for graduating seniors.

### Meet Program Goals as set.

- Overall Program Assessment
- Placement
- Alumni Survey
- Employer Survey
- Industrial Advisory Board

- Action plans are developed for continuous improvement, as needed, based on annual assessments of the courses and the program in its entirety.
- Department monitors placement of graduates.
- Alumni & employer surveys are done once every few years.
- Program advisory board meets, at least, once a year.

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