

UNIVERSITY OF ALASKA FAIRBANKS
Student Learning Outcomes Assessment Plan
MS (Mining Engineering)
 College of Engineering and Mines
 September 2012

Expanded Statement of Institutional Purpose	Intended Objectives/Outcomes	Assessment Criteria and Procedures	Implementation (what, when, who)
<p>MISSION STATEMENT:</p> <p>To provide a high quality education in mining engineering</p>	<p>Communication skills learning outcome</p> <p>Upon completion of the master’s degree, a student at the master’s level will demonstrate appropriate oral and written communication skills in the technical aspects of mining engineering.</p>	<p>For this learning outcome, appropriate assessment rubric that can be used are:</p> <ul style="list-style-type: none"> ▪ Performance in class presentations and reports in graduate level courses; ▪ Successful thesis research presentation and defense; ▪ Research presentation(s) at technical meetings. 	<p>Research Product Assessment: Graduate advisory committee at the defense</p> <p>Coursework Assessment: By the instructor during assessment cycle</p>
	<p>Acquisition of Advanced Knowledge, Skills and Competencies achieved by the students:</p> <p>Ability to undertake appropriate research using advanced tools and techniques; scholarly or creative endeavors, and contribute to their discipline; ability to teach, often at the collegiate level; and ability to find employment in the professional field, or a related field.</p>	<p>For this learning outcome, appropriate assessment rubric that can be used are:</p> <ul style="list-style-type: none"> ▪ Review of graduate coursework ▪ Review of research ▪ Review of responsible assignments such as teaching or research assistantships 	<p>Research Product Assessment: Graduate advisory committee at the defense</p> <p>Coursework Assessment: By the instructor during assessment cycle</p>

	<p>High Quality Graduate Program: This is indicated by the quality of incoming students, the performance of students and the quality of the programs as reflected in the grades in given graduate courses, the performance of students on qualifying examinations, the number of refereed journal publications, and the career advancement opportunities obtained after leaving the graduate program.</p>	<p>For this learning outcome, appropriate assessment rubric that can be used are:</p> <ul style="list-style-type: none"> ▪ Test scores ▪ MS GPA ▪ Industry experience before entering program ▪ Performance on comprehensive exam ▪ Peer review publications of MS work ▪ Placement after graduation ▪ Graduate coursework offered by department 	<p>Program Assessment Coordinator during assessment cycle</p>
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