

UNIVERSITY OF ALASKA FAIRBANKS
Student Learning Outcomes Assessment Plan
Master of Science – Mechanical Engineering
 College of Engineering and Mines (CEM)
 September 30, 2013

Expanded Statement of Institutional Purpose	Intended Objectives/Outcomes	Assessment Criteria and Procedures	Implementation (what, when, who)
<p>MISSION STATEMENT:</p> <p>To offer the highest quality, contemporary education at the undergraduate and graduate levels and to perform research appropriate to the technical needs of the State of Alaska, the nation and the world.</p> <p>GOAL STATEMENT:</p> <ol style="list-style-type: none"> 1. To offer a mechanical engineering program designed to prepare for its graduates for careers at the professional level; 2. 2. to provide continuing educational opportunities for graduate engineers; 3. 3. to serve as a resource of technical knowledge for the state as well as the nation. 	<p><i>Students will maintain adequate progress toward their degree objectives and acquire sufficient knowledge and skills to engage in successful research projects.</i></p>	<ol style="list-style-type: none"> 1) Student GPA 2) Annual progress reports 3) Student engagement in publication and research presentation. 	<p><i>Semester-by- semester review of student performance in graduate coursework as indicated by semester and cumulative graduate GPA by Graduate Advisory Committee (GAC) chair.</i></p>
	<p><i>Students will be able to apply knowledge of mathematics, science, and engineering to the solution of engineering problems.</i></p>	<ol style="list-style-type: none"> 1) Oral comprehensive exam 2) Evaluation of thesis/project by GAC. 3) Annual progress reports 	<p><i>Comprehensive exam reporting by GAC.</i></p>
	<p><i>Students will develop an ability to use modern engineering tools in the pursuit of their research and career objectives.</i></p>	<ol style="list-style-type: none"> 1) Annual progress reports 2) Evaluation of thesis/project. 	<p><i>Yearly Progress Report evaluated by the GAC.</i></p>
	<p><i>Students will develop good oral and written communication skills.</i></p>	<ol style="list-style-type: none"> 1) Evaluation of thesis/project 2) Evaluation of oral thesis/project defense. 	<p><i>Comprehensive and oral exams by the GAC. Record of publication and presentation collected as part of annual activities report of faculty member.</i></p>

