

**UNIVERSITY OF ALASKA FAIRBANKS**  
**Student Learning Outcomes Assessment for MS graduate students**  
 Department of Physics  
 Adopted 12 December 2014

Expanded Statement of Institutional Purpose	Intended Objectives/Outcomes	Assessment Criteria and Procedures	Implementation (what, when, who)
<p><b>MISSION STATEMENT:</b></p> <p>The Physics Graduate Program will provide scientists and professionals with the training and insight to understand and explore the physical world, from elementary particles to the structure and origin of the universe.</p> <p><b>GOAL STATEMENT:</b></p> <p>We will maintain a program of high quality, international reputation and produce scientists and professionals capable of solving current problems and anticipating future challenges in Physics.</p>	Upon completion of the program, graduates can function effectively in their area of expertise.	Physics will maintain a strong international reputation for producing well-trained graduates.	Graduates will be surveyed to identify program strengths and weaknesses. These surveys will be used in department program development strategies.
	Students will be capable of analyzing a problem, identifying the critical aspects, and devising appropriate methods to resolve the questions that arise.	Thesis will demonstrate the identification of and solution to research problems.	Committee will be surveyed after thesis or project defense.  Students will be surveyed.
	Graduates will be successful in obtaining work, or progressing in their field.	80% who desire employment or further education will be employed or admitted to a graduate program one year after graduation.	Graduates will be surveyed.
	Demonstrated original thinking.	A successfully defended thesis (thesis MS). A first-authored instrument or software manual (project MS).	MS level students will give a professional presentation with an abstract.
	Students will have exposure to the peer-reviewed scientific process.	At least one presentation in preparation (thesis MS). A completed instrument or software manual (project MS).	Mentors will lead students in writing process and help in handling the publication or manual production process.