## UNIVERSITY OF ALASKA FAIRBANKS

## Student Learning Outcomes Assessment Plan Mathematics M.S. Degree

College of Natural Sciences and Mathematics
Adopted May 2014

Expanded Statement of	Intended Objectives/Outcomes	Assessment Criteria and	Implementation
Institutional Purpose		Procedures	(what, when, who)
MISSION STATEMENT:  We shall provide a high quality mathematics education responsive to the needs of individual students and the diverse population of Alaska	Our students will attain a level of technical ability and knowledge to prepare for thesis work and to achieve their professional goals.	Students will demonstrate their progress through course work and annual committee meetings.	The student and the student's committee will meet annually to assess student progress toward the stated objective. Progress reports will be sent to the Assessment Committee who will review them and identify concerns.
	Our students will master core mathematical concepts.	All students are required to pass four core courses and pass a collection of exams covering a subset of core areas.	Every spring, comprehensive exams will be given graded and discussed by the math faculty. A summary of the results will be prepared by the Assessment Committee.
GOAL STATEMENT:  To assure that our graduates attain a solid understanding of mathematics and are adequately prepared to succeed in the job market or advanced study.	Communication and presentation skills are consistent with professional standards.	Oral component: For all students, the quality of the student's public oral thesis defense will be evaluated by a survey of department members in attendance. For students placed in the classroom, at least one permanent faculty member will observe the student each semester and write a brief description to be submitted to the Assessment Committee.  Written component: All students must submit a written project or thesis.	The Assessment Committee will review the results of the survey and any reports of classroom observations. Every three years, the Assessment Committee will evaluate the quality of recent theses.
	Students will obtain employment in their chosen field, continue on to further education, or otherwise meet personal objectives for completing the degree.	Tracking of recent graduates.	Faculty will be surveyed annually regarding recent graduates. A list of graduates will be maintained.