

UNIVERSITY OF ALASKA FAIRBANKS
Student Learning Outcomes Assessment Plan

Chemistry M.S. program

MISSION STATEMENT:

The Chemistry MS program seeks to provide students with training well in advance of a Bachelors degree in one of the primary subdisciplines of chemistry that includes computational, analytical, organic, inorganic, and physical. Training will be in the form of advanced coursework, advanced techniques associated with a research project, and dissemination of ideas in both written and oral communications.

GOAL STATEMENT:

Students graduating with a MS degree in chemistry will either be accepted into nationally accredited graduate or professional programs or will have secured professional employment that makes significant use of their MS training. Results from student research will result in peer-reviewed publications or form the basis for future publications.

Intended Objectives/Outcomes	Assessment Criteria and Procedures	Implementation (what, when, who)
Graduates attain a level of technical ability and knowledge to function as professionals in their discipline.	Students will demonstrate their abilities and progress through presentations, manuscripts, and annual committee meetings.	Annual graduate committee meetings will include questions to assess student progress toward the stated objective (Form "GradProgramAssessmentForm"). Annual progress reports will be reviewed by faculty to assure program goals are being met.
Masters graduates have performed research using technical, safety, and problem solving skills to contribute to their field.	Graduates will contribute to the peer-reviewed literature and/or present work at conferences.	Masters students should have contributed to at least one manuscript ready for submission to the peer-reviewed literature at time of defense or have presented work at a conference. Thesis defense quality will be assessed "GradProgramAssessmentForm".
Communication/presentation skills are consistent with professional standards.	Graduate students will have experience in giving oral presentations at disciplinary conferences, preparation of peer-reviewed manuscripts and development of research proposals.	Survey of graduate students and student committees (including oral defenses and exams) will include questions to assess their progress towards the stated objective (Form "GradProgramAssessmentForm"). Assessments of student performances seminar courses will be compiled and reviewed annually. List of peer reviewed publications and conference presentations will be compiled and reviewed annually.
Graduates obtain employment or continue education in the field following graduation.	90% of students will be employed or continue education in a related field one year after graduation	Graduates will be surveyed (Form "Graduate Student Exit Interview") and faculty will be surveyed annually regarding recent graduates.