

Program Assessment Plan

Department Name: CHEMISTRY

Major: BS CHEMISTRY

Student Learning Goals:

1. Describe and apply major chemical concepts and theoretical principles across the sub-disciplines of chemistry.
2. Use a wide variety of laboratory techniques (and instrumentation?) with technical competence to address a chemical problem.
3. Understand and apply fundamentals of laboratory safety
4. Identify a chemical problem, formulate a hypothesis and design appropriate experiments to test it.
5. Analyze and evaluate scientific data and determine its meaning, validity and importance
6. Communicate clearly and accurately using the language, concepts, and models of chemistry (to a variety of audiences).
7. Apply ethical principles of science in the practice of chemistry.
8. Demonstrate an understanding of the broad role of chemistry in other disciplines and in society.

Assessment Plan:

Assessment Measure:	Goals Addressed: (list by number)	How is the information used?
ACS exams (organic & analytical) C307, C309, C211	1	The departmental assessment committee will report the results of the assessment measures for the current year and compare to historical data. These results will be presented to the full department annually. Trends will be identified on a rolling 3-year average. The chair will initiate discussions to identify actions necessary to meet the student learning goals.
In-house exams	1	
Overall course grades	1	
Quant lab reports C212	2, 3, 5, 7, 8	
Advanced lab assignments C323, C324, C412	2, 4, 5, 6, 7, 8	
Organic lab assignments C308, C310	2, 3, 5, 7	
Safety quizzes (quant, organic, research) C212, C308, C310, C495	3	
Biochem assignments (lecture & lab) C431-433	4, 5, 6, 8	
Senior seminar assignments C495	4, 5, 6, 7	
C411 and C401 assignments	6, 8	

Updated: April 24, 2006