

Assessment Plan for Chemistry Undergraduate Program

Assessment Plan - Chemistry has identified seven Learning Outcomes that should be mastered by all of our Undergraduate students by the time of their graduation. These learning outcomes are applicable to both the

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classes and/or of the use of the ACS Diagnostic Undergraduate Chemistry Knowledge test as a program-wide evaluation of the attainment of these Learning Outcomes will be initiated.

The examination of the writing samples and rubrics can be used to judge the effectiveness of the incorporation of the workshops into the Instrumental WIC class and if this shows promise, discussion of the expansion of this model into some of the other higher-level

Curriculum Map for Chemistry:

Learning Objectives	General Chemistry I (221-2)	General Chemistry II (222-2)	Organic Chemistry I (331)	Organic Chemistry II (332)	Inorganic Chemistry (444)	Inorganic Chemistry I (441)	Inorganic Chemistry II (442)
1. Explain the structure and properties of matter.	1	1	1	1	1	1	1
2. Describe the periodic table and trends in properties.	1	1	1	1	1	1	1
3. Calculate the molar mass and percent composition of a compound.	1	1	1	1	1	1	1
4. Write and balance chemical equations.	1	1	1	1	1	1	1
5. Calculate the limiting reagent and percent yield.	1	1	1	1	1	1	1
6. Describe the properties of acids and bases.	1	1	1	1	1	1	1
7. Calculate the pH of a solution.	1	1	1	1	1	1	1
8. Describe the properties of transition metals.	1	1	1	1	1	1	1
9. Calculate the equilibrium constant.	1	1	1	1	1	1	1
10. Describe the properties of coordination compounds.	1	1	1	1	1	1	1