

Course Outcome Guide (COG)

Course:	CHEM 115: Introductory Chemistry	Credits:	4	Date updated:	11/19/15
Course Description:	An introductory non-majors course covering topics in measurement, atomic structure, stoichiometry, solutions, gas laws and acid/bases.				
Concepts and Issues	Process Skills	Assessment Tasks	Intended Outcomes		
			Course	General Education or Program	Institutional
<ul style="list-style-type: none"> • Elements • Measurements • Atomic structure • Compounds • Reaction calculations • Gas Laws • Concentrations • Acids/bases • Basic lab skills • Data collecting, recording, and analyzing 	<ul style="list-style-type: none"> • Identify first 30 elements • Describe measurements with proper accuracy. • Identify parts of atoms. • Identify, properly form, and name different chemical compounds. • Compute amounts of chemical used and made in reactions. • Calculate values for solutions and gasses • Identify acids and bases • Demonstrate ability to follow directions • Collect data and explain deviations from expectations. 	<ol style="list-style-type: none"> 1. Fill in lab reports 2. Homework assignments 3. Chapter quizzes 4. Unit Exams 5. Comprehensive final exam 	<p>Students will be able to:</p> <ol style="list-style-type: none"> 1. Perform chemical equation calculations 2. Succeed at the next level of college chemistry, in the work place, and/or another post-secondary institution. 3. Discover the chemistry in everyday life around them. 	<p>Students will:</p> <ol style="list-style-type: none"> 2. Use reasoning skills to analyze and solve problems. 	<p>Students will:</p> <ol style="list-style-type: none"> 2. Use reasoning skills to analyze and solve problems.