

STUDENT LEARNING OUTCOMES

Chemistry

Title & Course #	STUDENT LEARNING OUTCOMES
Chemistry 51 Fundamentals of Chemistry I	<ol style="list-style-type: none">1. Conceptualize, model and explain chemical processes qualitatively at the molecular level.2. Extract appropriate information, analyze and synthesize experimental results to reach correct conclusions.3. Perform laboratory techniques safely and accurately and maintain a laboratory notebook according to standard scientific guidelines.
Chemistry 52 Fundamentals of Chemistry II	<ol style="list-style-type: none">1. Conceptualize, model and explain chemical processes qualitatively at the molecular level.2. Apply mathematics to solve quantitative chemical problems.3. Extract appropriate information, analyze and synthesize experimental results to reach correct conclusions.4. Perform laboratory techniques safely and accurately and maintain a laboratory notebook according to standard scientific guidelines.
Chemistry 65 Introduction to General Chemistry	<ol style="list-style-type: none">1. Conceptualize, model and explain chemical processes qualitatively at the molecular level.2. Apply mathematics to solve quantitative chemical problems.3. Extract appropriate information, analyze and synthesize experimental results to reach correct conclusions.4. Perform laboratory techniques safely and accurately and maintain a laboratory notebook according to standard scientific guidelines.
Chemistry 101 General Chemistry I	<ol style="list-style-type: none">1. Describe, explain and model chemical and physical processes qualitatively at the molecular level in order to explain macroscopic properties.2. Solve quantitative chemistry problems through integration of multiple ideas and demonstrate reasoning clearly and completely.3. Analyze results of laboratory experiments, evaluate sources of error and prepare clear and organized laboratory reports.4. Perform laboratory techniques safely and accurately and maintain a laboratory notebook according to standard scientific guidelines.5. Design, construct and interpret graphs accurately.
Chemistry 102 General Chemistry II	<ol style="list-style-type: none">1. Describe, explain and model chemical and physical processes qualitatively at the molecular level in order to explain macroscopic properties.2. Solve quantitative chemistry problems through integration of multiple ideas and demonstrate reasoning clearly and completely.3. Analyze results of laboratory experiments, evaluate sources of error and prepare clear and organized laboratory reports.4. Perform laboratory techniques safely and accurately and maintain a laboratory notebook according to standard scientific guidelines.5. Design, construct and interpret graphs accurately.