



<b>Course Number</b> <b>Course Name</b>	CHEM 2120 Integrated Organic and Biochemistry Lab
<b>Credit Value</b> <b>(Breakdown of theory and lab credits)</b>	1 Lab
<b>Catalog Course Description</b>	This course provides experiences with the physical properties and laboratory synthesis of organic compounds. Includes exercises in the preparation, separation, isolation, and characterization of biologically derived molecules.
<b>Course Student Learning Outcomes/Objectives /Competencies</b>	<ol style="list-style-type: none"> <li>1. Identify and name basic organic compounds.</li> <li>2. Construct/draw organic compounds from the names.</li> <li>3. Predict the products of certain organic chemical reactions from reagents and conditions presented.</li> <li>4. Recognize and name the four basic bioorganic units and certain of their derivatives and macromolecules.</li> <li>5. Compare and contrast the function and location of the four bioorganic units and their macromolecules and cofactors.</li> <li>6. Draw/recognize stereochemistry and explain its relevance to bioorganic molecules.</li> <li>7. Discuss the pathways and functions of some of the cellular metabolic processes.</li> <li>8. Recognize and describe metabolic cellular processes and macromolecular structure with respect to health and/or disease states.</li> </ol>
<b>College-Wide Student Learning Outcomes measured (General education courses only)</b>	
<b>Program Student Learning Outcomes measured</b>	<ol style="list-style-type: none"> <li>1. The Student should be able to analyze and solve problems using a formal critical thinking based on the scientific inquiry.</li> <li>2. The student should be able to work in a laboratory setting following safety and standard chemical lab protocols. Synthesizing and Characterizing organic and inorganic compounds, planning and executing experiments.</li> </ol>

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