



Course Number Course Name	CHEM 2120 Integrated Organic and Biochemistry
Credit Value (Breakdown of theory and lab credits)	3 Theory
Catalog Course Description	Introductory course designed to meet the entrance requirements in chemistry for students in allied-health fields in which some knowledge of organic chemistry and bio-chemistry is needed.
Course Student Learning Outcomes/Objectives /Competencies	<ol style="list-style-type: none"> 1. Identify and name basic organic compounds. 2. Construct/draw organic compounds from the names. 3. Predict the products of certain organic chemical reactions from reagents and conditions presented. 4. Recognize and name the four basic bioorganic units and certain of their derivatives and macromolecules. 5. Compare and contrast the function and location of the four bioorganic units and their macromolecules and cofactors. 6. Draw/recognize stereochemistry and explain its relevance to bioorganic molecules. 7. Discuss the pathways and functions of some of the cellular metabolic processes. 8. Recognize and describe metabolic cellular processes and macromolecular structure with respect to health and/or disease states.
College-Wide Student Learning Outcomes measured (General education courses only)	
Program Student Learning Outcomes measured	<ol style="list-style-type: none"> 1. The Student should be able to analyze and solve problems using a formal critical thinking based on the scientific inquiry. 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.

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