

## Course Outcome Guide (COG)

<b>Course:</b>	CHEM 240 Survey of Organic Chemistry	<b>Credits:</b>	4	<b>Updated:</b>	Feb. 10, 2020
<b>Course Description:</b>	Prerequisite: Chemistry 121 Includes topics on nomenclature, reaction mechanisms, reaction types, properties of functional groups and stereochemistry. Directed towards majors in dietetics, medical technology, allied health, agriculture and natural science.				
Concepts and Issues	Process Skills	Assessment Tasks	Intended Outcomes		
			Course	General Education or Program	Institutional
<b>1. Nomenclature</b> <b>2. Functional groups</b> a. hydrocarbons b. alcohols c. ethers d. ketones e. aldehydes f. acids & derivatives g. aromatics h. amines <b>3. Types of reactions</b> a. addition b. substitution c. oxidation d. reduction e. SN1 f. SN2 g. E1 h. E2 <b>4. Spectroscopy</b>	1. Demonstrate the following: A. Use rules to name organic compounds B. Identify the describe the functional groups C. Write equations to represent the types of reactions D. Use mechanisms to explain reactions	1. Complete readings, assigned questions, and study guides 2. Successfully completing examinations showing knowledge and mastery of subject matter	1. Demonstrate knowledge of nomenclature 2. Identify reaction types with functional groups 3. Utilize reaction mechanisms to show understanding of chemical reactions	Students will use reasoning skills to analyze and solve problems.	Students will use reasoning skills to analyze and solve problems.