## J. Sargeant Reynolds Community College Course Content Summary

Course Prefix and Number: <u>CHM 241</u> Credits: <u>3</u>

Course Title: Organic Chemistry I

## **Course Description:**

Introduces fundamental chemistry of carbon compounds, including structures, physical properties, syntheses and typical reactions. Emphasizes reaction mechanisms. Part I of II. Prerequisite: CHM 112 with grade C or higher. Lecture 3 hours. Total contact 3 hours per week. 3 credits

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- Predict and explain patterns in structure, geometry, bonding, hybridization, formal charge, stability, acidity, basicity, and polarity of organic molecules.
- Describe the trends in solubility, melting points, boiling points and other physical properties of organic molecules based on intermolecular forces and presence of specific functional groups.
- Classify organic molecules by their functional groups and provide correct IUPAC names for alkanes, alkenes, alkynes, alkyl halides, and other optional functional groups,

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