COURSE SYLLABUS

LAST REVIEW	Spring 2021
COURSE TITLE	Organic Chemistry II Lab
COURSE NUMBER	CHEM-0214
DIVISION	Math, Science, Business and Technology
DEPARTMENT	Chemistry
CIP CODE	24.0101
CREDIT HOURS	2
CONTACT HOURS/WEEK	Lab: 4
PREREQUISITES	Organic Chemistry I, CHEM-0211 and Organic Chemistry I Lab, CHEM-0213
COURSE PLACEMENT	Students must meet the correct placement measure for this course. Information may be found at: https://www.kckcc.edu/admissions/information/mandatory-evaluation-placement.html

COURSE DESCRIPTION
The emphasis of this continuation of Organic Chemistry I Lab, CHEM-0213, is on organic synthesis and identification.

TEXTBOOKS
http://kckccbookstore.com/

METHODS OF INSTRUCTION
A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE
I. Oxidation and Reduction of Alcohols
II. Reduction of ketones and aldehydes
III. Nucleophilic Substitution Reactions
IV. Aromatic Substitution Reactions
V. Aldol Condensation
VI. Esterification and Hydrolysis
VII. Synthesis

COURSE LEARNING OUTCOMES

Upon successful completion of this course, the student will:

A. Be able to perform common techniques in reactions of a variety of functional groups and multistep syntheses.
B. Be able to perform hands-on reactions of a variety of functional groups.
C. Be able to develop knowledge and experience with organic syntheses.
D. Be able to perform laboratory techniques necessary for analysis and identification of organic compounds.

ASSESSMENT OF COURSE LEARNING OUTCOMES

Student progress is evaluated through both formative and summative assessment methods. Specific details may be found in the instructor's course information document.

COLLEGE POLICIES AND PROCEDURES

Student Handbook
https://www.kckcc.edu/files/docs/student-resources/student-handbook-and-code-of-conduct.pdf

College Catalog
https://www.kckcc.edu/academics/catalog/index.html

College Policies and Statements
https://www.kckcc.edu/about/policies-statements/index.html

Accessibility and Accommodations
https://www.kckcc.edu/academics/resources/student-accessibility-support-services/index.html.