CHEM2440 Recitation for Organic Chemistry II

The University of Toledo
Department of Chemistry and Biochemistry
College of Natural Sciences and Mathematics

CRN: 11115 (CHEM 2440-001), 11116 (CHEM 2440-003), 11118 (CHEM 2440-006), or 11119 (CHEM 2440-007)

Instructor: Dr. Jianglong Zhu
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Office Hours: T/R 10–12 pm or by appointment
Office: Wolfe Hall 3265
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Class Location: Multiple areas
Class Day/Time: Multiple times
Credit Hours: 1 credit hour
Term: Spring 2019

COURSE/CATALOG DESCRIPTION
Optional recitation sections that discuss concepts and solve practice questions in CHEM2420.

COURSE OVERVIEW
In Organic Chemistry II Recitation, you will be improving your understanding of organic chemistry through practice problems and group discussion. This course is designed as a supplement to your lecture course to help you further grasp the material through problem solving and interaction with your fellow students. Attendance and participation will be documented in order to decide your receiving credit for this course.

STUDENT LEARNING OUTCOMES
Students who successfully complete this course will be able to:
• Describe organic compounds with multiple functional groups through the IUPAC naming system;
• Predict physical properties of organic compounds;
• Determine general reactions of a variety of organic compounds.

TEACHING STRATEGIES
Problem sets will be distributed to the student at the beginning of the class. Students will work on the problems independently before the answers are discussed. This face-to-face course is designed to stimulate students through active learning by participating in solving provided problems through a think, pair, share process. Discussion is highly encouraged.

COREQUISITES
REQUIRED AND RECOMMENDED MATERIALS

A. Required Materials:
N/A

B. Recommended Materials:

UNIVERSITY POLICIES
Policy Statement on Non-Discrimination on the basis of Disability (ADA). The University is an equal opportunity educational institution. Please read The University’s Policy Statement on Nondiscrimination on the Basis of Disability Americans with Disability Act Compliance.

Academic Accommodations
The University of Toledo is committed to providing equal access to education for all students. If you have a documented disability or you believe you have a disability and would like information regarding academic accommodations/adjustments in this course please contact the Student Disability Services Office.

ACADEMIC POLICIES
Drop, Withdrawal, and Incomplete Grades
Course drop and withdrawal procedures have been set by the University faculty. Pay attention to those add/drop dates as they pass very quickly during the semester! For both dropping the course or withdrawing you should go to Rocket Solution Central in Rocket Hall. You do not need your instructor’s permission for either process. Please note that course registration changes might change your financial aid. A course grade of incomplete is given only to those who have completed all but a small percentage of course requirements for an acceptable reason.

Academic Dishonesty:
The academic honesty policies, as stated in the 2013-2014 UT Catalogue will be STRICTLY ENFORCED. Any student found violating the UT academic honesty policies will be penalized in accordance with these policies. You should read the university’s policy on Academic Dishonesty found at http://www.utoledo.edu/catalog/2000catalog/admissions/academic_dishonesty.html.

Special Needs:
If you have special needs with respect to your participation in this course, please make an appointment to discuss this matter with your instructor. The instructor will work with you and the Office of Accessibility to make appropriate accommodations for your needs.

Communication:
You are urged to communicate with the instructor about any aspect of the course which concerns you or
which might limit your success. We want you to be successful in this course, so let’s work together!

**Chemistry Help Center:**
The Chemistry Help Center, Room BO 2043, is where the teaching assistants hold their office hours so it is a great place to receive assistance. It is generally open all day Monday through Friday and evenings Monday through Thursday. A schedule will be posted early in the term. No appointment is necessary.

**COURSE EXPECTATIONS**
- Attendance is expected, if you are absent, you are responsible for any material covered in lecture;
- Participation is expected and highly encouraged;
- If you need to arrive late or leave early please sit near the door as to minimize the level of disruption to the class.

**GRADING**
The attendance will be taken in all classes (totally 14 times) during the semester. You will receive credit for this course if you miss the class **no more than three times**. Otherwise, you will receive no credit.

**COURSE SCHEDULE**
- Chapter 15: Benzene and Aromaticity
- Chapter 16: Electrophilic Attack on Derivatives of benzene
- Chapter 17: Aldehydes and Ketones
- Chapter 18: Enols, Enolates, and the Aldol Condensation
- Chapter 19: Carboxylic Acids
- Chapter 20: Carboxylic Acid Derivatives
- Chapter 21: Amines and Their Derivatives
- Chapter 22: Chemistry of Benzene Substituents
- Chapter 23: Ester Enolates and the Claisen Condensation
- Chapter 24: Amino acids, Peptides, Proteins, and Nucleic Acids (Optional)
- Chapter 25: Heterocycles
- Chapter 10: Using Nuclear magnetic Resonance Spectroscopy to Deduce Structure
- Chapter 11: Alkenes: Infrared Spectroscopy and Mass Spectrometry (only the IR and Mass portion)
- Chapter 14: Delocalized Pi Systems (only 14-11, the Ultraviolet and Visible Spectroscopy portion)
- Chapter 26: Carbohydrates (Optional)