

Organic Chemistry II

Spring 2018 Syllabus

Course Description: Designed for science and pre-professional students, Chem 342 is a continuation of Chem 341. Chem 342 covers chemistry of carbonyl compounds, arenes, amines, and some other important types of organic compounds.

Goal: The main goal is to attain knowledge and comprehension of major concepts and techniques of organic chemistry, including 1) application of critical thinking skills to understand different organic chemistry concepts and the relationships among them; 2) the use of multiple sources of information to critically analyze organic chemistry problems.

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Required Materials: 1) Organic Chemistry, 8th edition, by W. Brown, B. Iverson, E. Anslyn, and C. Foote, Brooks/Cole Cengage Learning, (Earlier editions are also usable, though be aware that some details will differ.); 2) Student Study Guide and Solutions Manual for Organic Chemistry, by B. Iversons and S. Iversons, Brooks/Cole Cengage Learning; 3) Clicker/ResponseWare.

Recommended Material: Preparing for Your ACS Examination in Organic Chemistry — The Official Guide", ISBN: 0-9708042-1-0

Lectures: MoWeFr 8:00 - 8:50 AM, Abbott Hall, Rm 101

Office Hours: MoTuWeFr 8:50-9:50 AM, or by appointment

Number of Credits: 3 credits

Prerequisite and Co-requisite: A grade of C or higher in Chem 341/L is required. If you are not registered for Chem 342L, you will be dropped from Chem 342 unless you can show documentation of a previous letter grade in an equivalent organic laboratory course.

Attendance: In accord with the University policy, attendance is expected for all lectures.

Blackboard: Students can check their scores on Blackboard: <http://blackboard.und.edu/>. Syllabus, lecture slides, problem sets, handouts, announcements, and other pertinent documents and information will be available on Blackboard.

Assignments: Assignments will be posted on Blackboard. The problems are designed to increase understanding of the subject material. They are not to be turned in, but same or similar problems will appear in the exams.

Withdrawals: Students wishing to drop the course must do so by April 6. Students cannot drop either the lecture course (Chem 342) or laboratory (Chem 342L), they must withdraw from both courses.

Intraterm Exams: Two intraterm examinations will be 50 min in length and the exam dates will be announced at least 2 weeks ahead. These exams will primarily emphasize material covered in the lectures. An absence from an examination may be excused only in the event of a verifiable illness, family emergency, or similar reason. Excused students will get his/her course average for the missed exam. Students cannot miss more than one intraterm exam. Any conflict with the scheduled exams must be brought to the instructor's attention at least 1 week prior to the exam.

Quizzes: Clicker questions and other problems will be given in the lectures. The answers will be discussed right away. A 30-min quiz (mock final) will be given on April 30 (Monday). The quiz will be graded for self-evaluation and counted as bonus points towards your grade.

Final Exam: The Standardized American Chemical Society Organic Chemistry Test will be given as the final examination in Abbott Hall, Room 101 from 8:00 am -10:00 am on May 9 (Wednesday). This is a multiple choice, comprehensive exam covering all topics from both Chem 341 and 342. National averages are computed each year and thus this exam measures class performance relative to national standards.

Grading: Your grade for the course will consist of the following parts.

Midterm exams:	2 x 100 pts	200 pts
Final Exam		100 pts

Total:		300 pts

85.0 – 100% A	75.0 – 84.9% B
64.0 – 74.9% C	53.0 – 63.9% D
0 – 52.9 % F	

Extra Points: The instructor may award extra points (up to 20 pts) for participation (clicker questions and a teaching survey etc.).

Students with Disabilities: Individuals who have any disability, either permanent or temporary, please contact the Disability Support Services Office (MacCannel Hall, Phone: 701-777-3425) and me. Appropriate arrangements may be made as required for equitable participation.

Compliance with Title IX: Any student who has been impacted by sexual violence or gender-based misconduct is encouraged to report and seek appropriate resources on campus. Please contact the Title IX Coordinator (Donna Smith, 701-777-4171).

Academic Dishonesty: Students being scholastically dishonest will be assigned a grade of F and dismissed from the course. Dishonesty will not be tolerated in this class.

Tentative Schedule

(Chapter 15 to 29 will be covered during the semester.)

CHAPTER 15-18 AND CHAPTER 29

Review of Functional Group, Organic Polymer Chemistry, Introduction to Organometallic Compounds, Aldehydes and Ketones, Carboxylic Acids, Functional Derivatives of Carboxylic Acids

- **Exam I** (The exam date will be announced at least 2 weeks ahead.)

CHAPTERS 19-24,

Enolate Anions and Enamines, Conjugated Systems, Benzene and The Concept of Aromaticity, Reactions of Benzene and Its Derivatives, Amines, C-C Bond Formation and Synthesis

- **Exam II** (The exam date will be announced at least 2 weeks ahead.)

CHAPTER 25-28 AND GENERAL REVIEW

Carbohydrates, Lipids, Amino Acids and Proteins, Nucleic Acids

- **Final Exam** (8:00 am - 10:00 am, 05/09/2018, Wednesday)