Organic Chemistry II
Spring 2014 Syllabus

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

Goal and Objective: 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. The main objective is to learn the principles of organic chemistry, including 1) preparation and characterization of organic compounds; 2) their chemical and physical properties; 3) the relationship between structure and reactivity.

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Web: www.und.nodak.edu/instruct/chu


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

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

Number of Credits: 4 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://online.und.edu/](http://online.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 quizzes and exams.

**Withdrawals:** Students wishing to drop the course must do so by April 11. Students cannot drop either the lecture course (Chem 342) or laboratory (Chem 342L), they must withdraw from both courses.

**Intraterm Exams:** Three intraterm examinations will be 50 min in length. 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:** Five quizzes will be given. The quiz will be about 30 min in length. The lowest score will be dropped. Therefore, there will be no make-up of missed quizzes.

**Final Exam:** The Standardized American Chemical Society Organic Chemistry Test will be given as the final examination in Abbott Hall, Room 101 from 8:00-10:00 am on May 14 (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.

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
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<tbody>
<tr>
<td>Midterm exams</td>
<td>3 x 100 pts</td>
</tr>
<tr>
<td>Quizzes</td>
<td>4 x 25 pts</td>
</tr>
<tr>
<td>Final Exam</td>
<td></td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>600 pts</strong></td>
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</tbody>
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85.0 – 100% A  
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. A student cannot jump two letter grades with the extra points.

**Students with Disabilities:** Individuals who have any disability, either permanent or temporary, please contact the Disability Support Services Office (MacCannel Hall, Phone: 777-3425) and me as soon as possible. Appropriate arrangements may be made as required for equitable participation.
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 11 to 29 will be covered during the semester.)

CHAPTER 11-15 AND CHAPTER 29
- Exam 1 (02/10/2014, Monday)

CHAPTERS 16-18
Aldehydes and Ketones, Carboxylic Acids, Functional Derivatives of Carboxylic Acids
- Exam 2 (03/10/2014, Monday)

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 3 (04/16/2014, Wednesday)

CHAPTER 25-28 AND GENERAL REVIEW
Carbohydrates, Lipids, Amino Acids and Proteins, Nucleic Acids
- Finial Exam (8:00-10:00 am, 05/14/2014, Wednesday)

The dates for the quizzes will be announced a week ahead.