

# CHEM 262: Organic Chemistry

Fall 2013 Section 1

Monday, Wednesday, & Friday: 10:00 - 10:50 in Murray G202

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**Office Hours:** Tuesdays 10:30-11:30 am, Wednesdays noon-1:00 pm, and Fridays 11:00-12:00 noon in Kenan C748. If you cannot make any of the scheduled times, please email me and set up an appointment.

**PREREQUISITES:** A C- or higher in CHEM261 or CHEM261H. *It is an honor code violation to be enrolled in a class without the proper pre-requisites.*

**HONOR CODE:** Policy adopted by the faculty of the Department of Chemistry on Sept. 9, 1977:

*"Since all graded work (including homework to be collected, quizzes, papers, mid-term examinations, final examinations, research proposals, laboratory results and reports, etc.) may be used in the determination of academic progress, no collaboration on this work is permitted unless the instructor explicitly indicates that some specific degree of collaboration is allowed. This statement is not intended to discourage students from studying together or working together on assignments which are not to be collected."*

**CLASS WEBPAGE:** The website for this class is located at <https://www.unc.edu/sakai/>. You will need to check this site regularly for new class announcements. This site will be used to post a variety of course information and material: syllabus, reading assignments, problem assignments, articles, exam keys, useful websites, grades, etc.

## COURSE MATERIALS:

- **Required:** Organic Chemistry, P.Y. Bruice, 6th edition. UNC-CH custom edition; available only from UNC stores; ISBN 9781256855040
- **Recommended:** Study Guide & Solutions Manual for Organic Chemistry, P.Y. Bruice, 6th ed. UNC-CH custom edition; ISBN 9781256844860
- **Required:** Turning Technologies Response Card RF LCD (clicker) and license. Both these can be purchased at the 2<sup>nd</sup> Floor Service Desk in Student Stores.
- **Highly Recommended:** Molecular Visions Organic Model Kit (can be used during exams)

## CHEM262L

Lab Check-In for CHEM 262L will begin on Monday, August 26 and continue through Thursday, August 29. Go to your CHEM 262L Sakai site and read the announcement.

## COURSE EXPECTATIONS

- **Attendance:** Class attendance and participation are expected and strongly encouraged since it will only enhance your learning and understanding of chemistry. Excellent attendance is important to your success in this course. If you miss a class, talk to a fellow classmate to obtain class notes. Please be punctual to class and exams.
- **Homework:** Read the relevant text sections before they are covered in lecture. Work all recommended problems, and work additional problems as needed. Homework problems will not be collected or graded; however, similar problems will be on quizzes or exams. Try to work the problems with as little aid from your solution manual as possible. If you consistently find yourself turning to the solution manual to work

the problems, go back and re-read the text and your notes, and then try to work the problem again. Good problem solving skills are essential for organic chemistry, and working together in small groups is highly recommended.

- **CELL PHONES OR OTHER ELECTRONIC DEVICES ARE NOT ALLOWED IN CLASS**

### HELPFUL HINTS:

- Do not get behind! Remember, it is YOUR responsibility to keep up with the material in class. *Do not try to memorize everything*—organic chemistry is more like math than anatomy—you need to be able to reason through problems.
- Try solving problems before looking at the answers. If you can only solve a problem after looking at the answer, you need to review the material.
- Go to office hours or the resource center *immediately* for help!  
<http://www.unc.edu/depts/acadserv/chem.html> The Resource Center provides FREE TUTORING! Mon–Thurs from 2–8 pm, Kenan C143, beginning on Aug. 26.
- Find a study partner and study together. Talk with your study partner about strategies for solving problems and quiz each other.

### QUIZZES AND IN CLASS QUESTION RESPONSES

- You must bring your clicker to every lecture. Throughout every lecture you will be asked to respond to a number of questions using your Turning Point clicker to assess your understanding of the material being presented.
- On most lecture days, you will be given a quiz at the start of the lecture, and it will be worth 1 point if answered correctly. You will use your clicker to respond to the question. In addition, you will receive 1 point for responding to all the in class questions using your clicker. As long as you participate and respond to all the in class questions, you will receive the point, regardless of whether your response is correct.
- There are no make-ups for missed quizzes or in class participation if a class is missed, if you forget to bring your clicker, or if your clicker is not working.
- You may not use another student's clicker to register a response for them if they are absent from class; this will be treated as an honor code violation.

### EXAMS AND EXAM POLICIES

- There will be three in-class exams and a final exam.
- Your lowest score from the in-class exams will be dropped.
- **THERE WILL BE NO MAKEUP EXAMINATIONS.**
- **CALCULATORS ARE NOT ALLOWED (OR NEEDED) ON EXAMINATIONS.**

### GRADING:

|                                    |      |
|------------------------------------|------|
| Quizzes and in-class responses     | 15%  |
| Average of two best in-class exams | 50%  |
| Final exam (cumulative)            | 35%  |
|                                    | 100% |

The letter grades for the course will be determined based on the percentage of points you earned and will be assigned as follows:

|          |          |          |         |            |
|----------|----------|----------|---------|------------|
|          | B+ 87-89 | C+ 74-79 |         | F below 50 |
| A 93-100 | B 83-86  | C 66-73  | D 50-59 |            |
| A- 90-92 | B- 80-82 | C- 60-65 |         |            |

**TENTATIVE SCHEDULE**

| <b>DATE</b>                  | <b>TOPIC</b>                                  | <b>CHAPTER</b>    |
|------------------------------|---|-------------------|
| 8/21                         | Introduction and Organometallic Compounds     | 11                |
| 8/23                         | Organometallic Compounds                      | 11                |
| 8/26, 8/28, 8/30             | Aromaticity and Rxns of Benzene               | 15                |
| 9/2                          | Labor Day Holiday                             |                   |
| 9/4, 9/6, 9/9, 9/11          | Rxns of Substituted Benzenes                  | 16                |
| 9/13                         | Wrap up                                       | 11, 15, 16        |
| <b>9/16</b>                  | <b>EXAM 1</b>                                 | <b>11, 15, 16</b> |
| 9/18, 9/20, 9/23, 9/25, 9/27 | Reactions of Carboxylic Acids and Derivatives | 17                |
| 9/30, 10/2, 10/4, 10/7       | Reactions of Aldehydes, Ketones, and Others   | 18                |
| 10/9                         | Wrap up                                       | 17, 18            |
| <b>10/11</b>                 | <b>EXAM 2</b>                                 | <b>17, 18</b>     |
| 10/14, 10/16                 | Reactions at the $\alpha$ -Carbon             | 19                |
| 10/18                        | Fall Break                                    |                   |
| 10/21, 10/23, 10/25          | Reactions at the $\alpha$ -Carbon             | 19                |
| 10/28, 10/30                 | Oxidation – Reduction Rxns                    | 20                |
| 11/1                         | Amines  | 21                |
| 11/4                         | Amines and Wrap up                            | 21, 19, 20        |
| <b>11/6</b>                  | <b>EXAM 3</b>                                 | <b>19, 20, 21</b> |
| 11/8, 11/11, 11/13           | Carbohydrates                                 | 22                |
| 11/15, 11/18                 | Amino Acids, Peptides, and Proteins           | 23                |
| 11/20, 11/22                 | Lipids  | 27                |
| 11/25                        | Polymers                                      | 29                |
| 11/27, 11/29                 | Thanksgiving Holiday                          |                   |
| 12/2                         | Polymers                                      | 29                |
| 12/4                         | Review  | All               |
| <b>12/13 8:00 am</b>         | <b>FINAL EXAM - Cumulative</b>                | All               |