CHM 2210-0003 Organic Chemistry I
Department of Chemistry
College of Science, University of Central Florida

COURSE SYLLABUS

Instructor: Dr. Yu Yuan
Office: Physical Science Building 245
Phone: 407-823-6367
E-Mail: yu.yuan@ucf.edu

Term: Fall 2013
Class Meeting Days: TuTh
Class Meeting Hours: 9:00 – 10:15 AM
Class Location: CL1 104

Office Hours: TuTh 10:30 AM – 12:00 PM, PS 245
 TA: Mengyuan Wang, wmyround@knights.ucf.edu
 Patricia Gomez, pinkprincess411@knights.ucf.edu
 Nirvani Mujumdar, nirvani@knights.ucf.edu

Welcome to CHM 2210 and fasten your belt for the great adventure of organic chemistry. Organic materials and reactions are extremely important in our daily lives, and most life phenomena are organic transformations if you study them at the molecular level. It’s needless to say that to understand the complexity of various biological processes, we have to start from the fundamentals of organic chemistry.

I. Course Overview
CHM 2210 is a 3-credit course designed to fulfill requirements in organic chemistry for the first semester in science education.

II. Course Objectives
1. Understanding of steric and electronic properties of common chemical bonds in organic molecules and how these features determine the corresponding reactivity.
2. Demonstration of the understanding of structure, nomenclature and basic reactivity of hydrocarbons, alcohols, phenols and epoxides.
3. Predict reasonable reaction mechanisms for organic transformation and propose synthetic routes to simple organic molecules.

III. Course Prerequisites
C grade or better in CHM 2046 or equivalent.

IV. Required Textbooks and Materials

2. Class Response System (i>clicker 2)

When purchasing your remote, be sure to tell the bookstore you are in my class and you are using i>clicker2. The correct ISBN is: 1429280476.

You are required to purchase an i>clicker2 remote for in-class participation. i>clicker2 is a response system that allows you to respond to questions I pose during class, and you will be graded on that feedback and/or your in-
class participation. In order to receive this credit, you will need to register your i>clikker2 remote by Aug. 25 2013. You must have come to class at least once and voted on at least one question in order to complete this registration properly. Once you have responded to a question with your i>clikker2 remote, go to http://www.iclicker.com/registration. Complete the fields with your first name, last name, student ID, and remote ID. Your student ID should be your NID. The remote ID is the series of numbers and sometimes letters found on the bottom of the back of your i>clikker2 remote. i>clikker2 will be used every class, and you are responsible for bringing your remote in the lecture day.

If you have more questions, please visit www.iclicker.com for FAQs and other resources.

3. Sapling Learning System for homework

Sapling’s chemistry questions are delivered in a web browser to provide real-time grading, response-specific coaching, improvement of problem-solving skills, and detailed answer explanations. Dynamic answer modules enable one to interact with 3D models and figures, utilize drag-and-drop synthetic routes, and draw chemical structures - including stereochemistry and curved arrows.

Students, we will be using Sapling Learning for our homework. To get started:

1) Go to http://saplinglearning.com and click "US Higher Ed" at the top right.
2) a. If you already have a Sapling Learning account, log in and skip to step 3.
   b. If you have Facebook account, you can use it to quickly create a Sapling Learning account. Click the blue button with the Facebook symbol on it (just to the left of the username field). The form will auto-fill with information from your Facebook account (you may need to log into Facebook in the popup window first).
   Choose a password and timezone, accept the site policy agreement, and click "Create my new account". You can then skip to step 3.
   c. Otherwise, click “create account”. Supply the requested information and click “Create my new account”. Check your email (and spam filter) for a message from Sapling Learning and click on the link provided in that email.
3) Find your course in the list (listed by subject, term, and instructor) and click the link.
4) Select your payment options and follow the remaining instructions.
5) Work on the Sapling Learning training materials. The activities, videos, and information pages will familiarize you with the Sapling Learning user environment and serve as tutorials for efficiently drawing molecules, stereochemistry, etc. within the Sapling Learning answer modules. These training materials are already accessible in your Sapling Learning course.

- Once you have registered and enrolled, you can log in at any time to complete or review your homework assignments.

- During sign up - and throughout the term - if you have any technical problems or grading issues, send an email to support@saplinglearning.com explaining the issue. The Sapling support team is almost always more able (and faster) to resolve issues than your instructor and TAs.

- To optimize your Sapling Learning experience, please keep your internet browser and Flash player up to date and minimize the use of RAM-intensive programs/websites while using Sapling Learning.

4. Molecular Model Kit

V. Supplementary (Optional) Texts and Materials

VI. Basis for Final Grade
The final grade for this course is based on your overall performance in the exams, quizzes, homework and class attendance. We will have 4 regular exams and 1 final exam. In addition, there will be 14 online quizzes. All exams and quizzes will be cumulative with emphasis on current chapters; the final is cumulative and comprehensive. The final exam score and the best 3 scores of the regular exams plus the best 12 scores of the quizzes will be used to determine your final grade. The exam time is listed on the schedule session as well as the quiz and homework due time. Homework is given on Sapling learning system and quiz is given on Canvas system. The regular exams and final exam will be multi-choice questions. Quizzes and exams are close book tests. The scantron form is attached at the end of the syllabus. Only non-programmable calculator is allowed in the exams. A periodic table will be provided for the final exam.

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percent of Final Grade</th>
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<tbody>
<tr>
<td>Exams (Best 3 out of 4)</td>
<td>40%</td>
</tr>
<tr>
<td>Quizzes (Best 12 out of 14)</td>
<td>12%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Homework</td>
<td>18%</td>
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<tr>
<td>Class Attendance and Clicker Questions (50/50)</td>
<td>10%</td>
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<td>100%</td>
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I’ll use the following grade scale:

<table>
<thead>
<tr>
<th>Grading Scale (%)</th>
<th></th>
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<tbody>
<tr>
<td>90-100</td>
<td>A</td>
</tr>
<tr>
<td>80-89</td>
<td>B</td>
</tr>
<tr>
<td>70-79</td>
<td>C</td>
</tr>
<tr>
<td>60-69</td>
<td>D</td>
</tr>
<tr>
<td>0-59</td>
<td>F</td>
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Graded tests and materials in this course will be returned individually only by request in writing. You may access your score at anytime through https://idp-prod.cc.ucf.edu/idp/Authn/UserPassword. There is no alternative way to obtain your grades.

VII. Makeup Policy
To be fair to everyone, there will be NO makeup exams and any missed exam will have a score of zero.
The score of the first missed exam will be zero and dropped for your final grade.
if you have legitimate reasons (doctor’s note for illness, university sanctioned events and court appearance) to miss a second exam, this score will be replaced by your final exam score.

VIII. Withdraw Deadline
28-Oct-2013. In case you don’t withdraw from the class and do not show up, you will receive an F grade.

IX. Holidays
2-September-2012, Monday, Labor Day
11-November-2012, Monday, Veteran’s Day
28 to 30-November-2012, Thanksgiving

X. Additional Instruction and Tutorial
The Student Academic Resource Center (SARC) provides study sessions in Organic Chemistry I on weekly basis.
Attending these study sessions has proven to be very helpful to improve your final grades. In addition, SARC also extends free tutoring all UCF students taking Organic Chemistry I. I strongly encourage all of you to participate the study sessions and tutorials.

The University Writing Center (UWC) offers writing support to UCF students from first-year to graduate in every
discipline. Trained peer consultants provide help at every stage of the writing process, including understanding assignments, researching, drafting, revising, incorporating sources, and learning to proofread and edit. Consultations are available for individuals and small groups. To make the best use of the UWC, visit far enough before your due date to allow yourself time to revise after your consultation, browse the writing resources on our website, and arrange a regular weekly appointment if you'd like long-term help. You may schedule a 45-minute appointment by phone or by using the TutorTrac scheduler on our website; walk-in consultations are also available. Its new location is in 105 Colbourn Hall.

XI. Course Policies:

Class Preparation and Homework: You should read each chapter before you come to class. Organic Chemistry I is a very intense course and good preparation helps you to understand the lecture much better. You should practice as many problems as you can, including homework and SKILLBUILDERS. Your homework due time is specified at the class schedule session.

Disability Access: The University of Central Florida is committed to providing reasonable accommodations for all persons with disabilities. Students with disabilities who need accommodations in this course must contact the Student Disability Service (SDS), Student Resource Center Room 132, phone (407) 823-2371, TTY/TDD only phone (407) 823-2116, before requesting accommodations from the professor.

Attendance Policy: You should make every effort to attend the class. The attendance will improve your overall performance in this course and it will be a determining factor for your grade “bump-up”, if your score is on the boundary of grade scale.

Professionalism Policy: Per university policy and classroom etiquette; mobile phones, iPads, etc. must be silenced during all classroom and lab lectures. Those not heeding this rule will be asked to leave the classroom/lab immediately so as to not disrupt the learning environment. Please arrive on time for all class meetings. Students who habitually disturb the class by talking, arriving late, etc., and have been warned may suffer a reduction in their final class grade.

Academic Conduct Policy: Academic dishonesty in any form will not be tolerated. If you are uncertain as to what constitutes academic dishonesty, please consult The Golden Rule, the University of Central Florida's Student Handbook (http://www.goldenrule.sdes.ucf.edu/) for further details. As in all University courses, The Golden Rule Rules of Conduct will be applied. Violations of these rules will result in a record of the infraction being placed in your file and receiving a zero on the work in question AT A MINIMUM. At the instructor’s discretion, you may also receive an F grade for the course. Confirmation of such incidents can also result in expulsion from the University.

Schedule:

<table>
<thead>
<tr>
<th>Date/Week</th>
<th>Lecture</th>
<th>Homework/Quiz Due Time</th>
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<tbody>
<tr>
<td>Aug. 20, Aug. 22</td>
<td>Homework Site Practice and Introduction</td>
<td>At Your Earliest Convenience</td>
</tr>
<tr>
<td>Aug. 27, Aug. 29</td>
<td>Chapter 01: Electrons, Bonds and Molecular Properties</td>
<td>Aug. 28, 11:00 PM</td>
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<tr>
<td>Aug. 29, Sep. 3</td>
<td>Chapter 02: Molecular Representations</td>
<td>Sep. 4, 11:00 PM</td>
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<tr>
<td>Sep. 3, Sep. 5, Sep. 10</td>
<td>Chapter 03: Acids and Bases</td>
<td>Sep. 11, 11:00 PM</td>
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<tr>
<td>Sep. 12, Sep. 17, Sep. 19</td>
<td>Chapter 04: Alkanes and Cycloalkanes</td>
<td>Sep. 18, 11:00 PM</td>
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<tr>
<td>Sep. 19, Sep. 24, Sep. 26</td>
<td>Chapter 05: Stereochemistry</td>
<td>Sep. 25, 11:00 PM</td>
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<tr>
<td>Oct. 1, Oct. 3, Oct. 8</td>
<td>Chapter 06: Chemical Reactivity and Mechanisms</td>
<td>Oct. 2, 11:00 PM</td>
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<tr>
<td>Oct. 8, Oct. 10, Oct. 15</td>
<td>Chapter 07: Substitution Reactions</td>
<td>Oct. 14, 11:00 PM</td>
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<tr>
<td>Oct. 17, Oct. 22</td>
<td>Chapter 08: Alkenes: Structure and Preparation</td>
<td>Oct. 21, 11:00 PM</td>
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<tr>
<td>Oct. 24, Oct. 29</td>
<td>Chapter 09: Addition Reactions of Alkenes</td>
<td>Oct. 28, 11:00 PM</td>
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<tr>
<td>Oct. 31, Nov. 5, Nov. 7</td>
<td>Chapter 10: Alkynes</td>
<td>Nov. 4, 11:00 PM</td>
</tr>
<tr>
<td>Nov. 7, Nov. 12,</td>
<td>Chapter 11: Radical Reactions</td>
<td>Nov. 13, 11:00 PM</td>
</tr>
<tr>
<td>Nov. 12, Nov. 14, Nov. 19</td>
<td>Chapter 12: Synthesis</td>
<td>Nov. 18, 11:00 PM</td>
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<tr>
<td>Nov. 21, Nov. 26</td>
<td>Chapter 13: Alcohols and Phenols</td>
<td>Nov. 25, 11:00 PM</td>
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<tr>
<td>Dec. 10</td>
<td>Chapter 14: Ethers and Epoxides; Thiols and sulfides</td>
<td>Dec. 2, 11:00 PM</td>
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<td>Final Exam (7:00 – 9:50 am)</td>
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There will be a 45-min exam on Sep. 10, Oct. 3, Oct. 29 and Nov. 19 respectively.
The instructor reserves the right to modify the schedule, the testing procedure, and the grading basis if, in the professional judgment of instructor, such modification is in the best interest of fulfilling the course objectives and assuring the academic integrity of the course and the institution.

You are responsible for announcements made during lectures and discussion sessions and/or through electronic communication (i.e. Webcourses@UCF, email)