CHM 2210-0004 Organic Chemistry I

Department of Chemistry
College of Science, University of Central Florida

COURSE SYLLABUS

Instructor:	Dr. Yu Yuan	Term:	Fall 2016
Office:	Physical Science Building 245	Class Meeting Days:	TuTh
Phone:	407-823-6367	Class Meeting Hours:	6:00 PM – 7:15 PM
E-Mail:	yu.yuan@ucf.edu	Class Location:	NSC O101
Office Hours:	TuTh 4:00 PM – 5:30 PM, PS 245 or PS 237		
TA:	Mohammad Rostampour, m.rostampour@knights.ucf.edu		

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

1. *Organic Chemistry, 2nd Edition*, David Klein
http://www.wiley.com/WileyCDA/WileyTitle/productCd-EHEP002933.html

2. Class Response System (i>Clicker)

You are required to purchase an i>clicker remote for in-class participation, both i>clicker1 and 2 will work. i>clicker 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>clicker remote by **Aug. 31 2016**. 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>clicker remote, go to http://www.iclicker.com/registration. Complete the fields with your first name, last name, **NID** (registration without NID information will result in zero credit towards final), and remote ID. The remote ID is the series of numbers and sometimes letters found on the bottom of the back of your i>clicker remote. i>clicker 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 (there is a $36 fee associated with Sapling)

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.

We will be using Sapling Learning for our homework. To get started:
How to enroll in your course site: http://www2.saplinglearning.com/help/student-single-sign

V. Supplementary (Optional) Texts and Materials

Organic Chemistry, Student Study Guide & Solutions Manual, by David Klein
Molecular Model Kit (recommended)

VI. Basics about Your 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 comprehensive final exam. In addition, there will be 14 online quizzes. The final exam score, the best 3 scores of the regular exams, the best 12 scores of the quizzes, your syllabus quiz, your Sapling homework score and clicker questions scores (attendance) will be used to determine your final grade. The exam time is listed on the schedule session as well as the homework/quiz due time. The regular exams, quizzes and the final exam will be multi-choice questions. Quizzes and exams are close book tests. Your attendance (5%) is measured by clicker voting. 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. *You can bring your molecular model to the exams*.

Assessment	Percent of Final Grade
Exams (Best 3 out of 4)	39%
Syllabus Quiz	1%
Quizzes (Best 12 out of 14)	15%
Final Exam	20%
Homework	20%
Class Attendance and Clicker Questions	5%
	100%

I'll use the following grade scale:

Grading Scale (%)	
(89-100]	A
(79-89]	B
(69-79]	C
(59-69]	D
[0 – 59]	F

Graded tests and materials in this course will be returned individually only by request in writing. You may access your score at any time through https://webcourses2c.instructure.com/. 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

31-Oct-2016. In case you don't withdraw from the class and do not show up for the rest of the class, you will receive an F grade

IX. Holidays

05-September-2016, Monday, Labor Day
11-November-2016, Friday, Veteran's Day
24 to 26-November-2016, 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, iPods, *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.

XII. Student Engagement:

As of Fall 2014, all faculty members are required to document students' academic activity at the beginning of each course. In order to document that you began this course, please complete the following academic activity by the end of the first week of classes. Failure to do so will result in a delay in the disbursement of your financial aid.

You must finish a syllabus quiz by the end of the first week.

XIII. Extra Credit:

There is no means to obtain any extra credits for this course.

Schedule:

Date/Week	Lecture	Homework/Quiz Due Time
Aug. 23-29	Syllabus Quiz	Aug. 29, 5:00 PM
Aug. 23, Aug. 25	Chapter 01: Electrons, Bonds and Molecular Properties	Sep. 2, 5:00 PM
Aug. 30, Sep. 1	Chapter 02: Molecular Representations	Sep. 9, 5:00 PM
Sep. 6, Sep. 8	Chapter 03: Acids and Bases	Sep. 16, 5:00 PM
Sep. 13, Sep. 15	Chapter 04: Alkanes and Cycloalkanes	Sep. 23, 5:00 PM
Sep. 20	Exam 1, Ch 1-3	
Sep. 20, Sep. 22, Sep. 27	Chapter 05: Stereoisomerism	Oct. 3, 5:00 PM
Sep. 27, Sep. 29	Chapter 06: Chemical Reactivity and Mechanisms	Oct. 7, 5:00 PM
Oct. 4, Oct. 6,	Chapter 07: Substitution Reactions	Oct. 14, 5:00 PM
Oct. 11	Exam 2, Cumulative with heavy emphasis on Ch 4-6	
Oct. 11, Oct. 13, Oct. 18	Chapter 08: Alkenes: Structure and Preparation	Oct. 24, 5:00 PM
Oct. 18, Oct. 20	Chapter 09: Addition Reactions of Alkenes	Oct. 28, 5:00 PM
Oct. 25, Oct. 27	Chapter 10: Alkynes	Nov. 4, 5:00 PM
Nov. 1	Exam 3, Cumulative with heavy emphasis on Ch 7-9	
Nov. 1, Nov. 3, Nov. 8	Chapter 11: Radical Reactions	Nov. 14, 5:00 PM
Nov. 8, Nov. 10,	Chapter 12: Synthesis	Nov, 18, 5:00 PM
Nov. 15, Nov. 17	Chapter 13: Alcohols and Phenols	Nov, 25, 5:00 PM
Nov. 22	Exam 4, Cumulative with heavy emphasis on Ch 10-12	
Nov. 22, Nov. 29, Dec. 1	Chapter 14: Ethers and Epoxies; Thiols and sulfides	Dec, 5, 5:00 PM
Dec. 06	**Final Exam (4:00 PM – 6:50 PM)**	

There will be a 50-min exam on Sep. 20, Oct. 11. Nov. 1 and Nov. 22 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)

SIDE 1

Test Scoring Test Form

NAME _____

SUBJECT _____

DATE _____ HOUR/DAY _____

○ RESCORE ○ MARK ✓ ○ TOTAL ONLY

1 - FEED THIS DIRECTION

KEY ITEM COUNT

0	0	0
1	1	1
	2	2
	3	3
	4	4
	5	5
	6	6
	7	7
	8	8
	9	9

	T	F
1	A	B C D E
2	A	B C D E
3	A	B C D E
4	A	B C D E
5	A	B C D E
6	A	B C D E
7	A	B C D E
8	A	B C D E
9	A	B C D E
10	A	B C D E
11	A	B C D E
12	A	B C D E
13	A	B C D E
14	A	B C D E
15	A	B C D E
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41	A	B C D E
42	A	B C D E
43	A	B C D E
44	A	B C D E
45	A	B C D E
46	A	B C D E
47	A	B C D E
48	A	B C D E
49	A	B C D E
50	A	B C D E

I.D. NUMBER

A	0	0	0	0	0	0	0	0
B	1	1	1	1	1	1	1	1
C	2	2	2	2	2	2	2	2
D	3	3	3	3	3	3	3	3
E	4	4	4	4	4	4	4	4
F	5	5	5	5	5	5	5	5
G	6	6	6	6	6	6	6	6
H	7	7	7	7	7	7	7	7
I	8	8	8	8	8	8	8	8
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TEST FORM

A B C D

EXAM NO.

0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9

UCF

SCORE		# CORRECT
		% CORRECT
RESCORE		# CORRECT
		% CORRECT
ROSTER NUMBER		SCORE
		RESCORE

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