

Chemistry 220

Instructor: John Congleton

Section: _____

Office Hours: _____

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Course Objectives

The goal of Chemistry 220 is to provide the student with a foundation in the basic principles of organic chemistry, skills in problem solving and critical thinking thus, preparing the student for further study in chemistry. Topics include but are not limited to: organic compounds, reactions, mechanisms, kinetics and spectroscopy.

Class Policies and Philosophy on Learning and Teaching

Students with Disabilities: A student with a verified disability may be entitled to appropriate academic accommodations. Please contact your instructor or the Disabled Students' Center for further information.

Classroom Conduct and the Right to Education: All students have the right to fair and equal education without bias or discrimination. Inappropriate behavior towards other students or the instructor will not be tolerated. Please observe the following courtesies at all times:

- Please come to class on time.
- Please mute your pagers and phones while in class*.
- When your instructor is speaking, please refrain from talking to your neighbors--the noise is distracting and disruptive.
- Please do not gather your books in preparation for leaving the class until your instructor has concluded class--again the noise is distracting and disruptive to others.
- When working with other class members, please be encouraging, positive, and helpful. Be sensitive to the feelings of others. Please avoid criticism and teasing or joking that might be hurtful to others.

* Notify the instructor before class if you must leave your cell phone or pager on.

Attendance and Dropping: Attendance is absolutely critical to understanding the material to be covered in chemistry. In addition, there will be in-class activities and participation in these is crucial to your grade. If you are absent, please obtain information about the class and any notes from another student. Missing four or more class hours may result in you being dropped from the class. It is **YOUR RESPONSIBILITY** to formally withdraw from the class through Admissions and Records should you decide you no longer wish to be enrolled.

Academic Honesty: I fully support Orange Coast College's belief that academic honesty is a cornerstone of the educational community. To that end, I expect academic honesty of my students. Students who bring unauthorized material to a test or copy from another's test will receive a zero on that test. Removal of reserve materials from the LRC is considered an act of academic dishonesty. Doing your homework in groups is encouraged, however copying someone else's homework or allowing someone else to copy your homework is considered an act of academic dishonesty.

Succeeding in Chemistry: Chemistry is a subject that requires active learning to master. You must come to class and then apply the principles you have learned by working through many many problems. Often, it will take multiple attempts at a problem to solve it. Remember, a good rule is to set aside twelve hours per week to do your homework assignments and to complete other study and learning tasks. **Do not allow yourself to fall behind in your work because catching up before a test is an essentially impossible in organic chemistry.**

It will help you understand the lectures if you come to class prepared- read the sections to be covered before you come to that lecture. I have assigned homework problems for you to do, but be aware that you may need to spend time solving extra problems to master certain topics. In summary, you should:

1. Come to all classes.
2. Read all material before coming to class.
3. Do not fall behind.
4. Complete all homework problems punctually. *
5. Complete all worksheets / WebAssign punctually. *
6. Work extra problems.
7. Learn definitions and understand concepts.

* It is absolutely imperative that you really put forth a good effort at working through your HW/worksheets before looking at the answer key.

Getting Help:

1. Your instructor: E-mail, office hours.
2. Tutoring is available.
3. Extra practice and review: Rework problems as necessary.
4. Study groups: Get together with other class members and form a study group which meets regularly to do homework and study.

Class Meetings	M, W 11:10AM-12:35 PM, Chem 227
Required Materials:	Organic Chemistry, 6 th Edition, by L.G. Wade, Jr. Solutions Manual to Organic Chemistry, Sixth Ed., by Jan W. Simek Prentice-Hall Molecular Model Set WebAssign Access Code (can be purchased at the bookstore or online)
Optional Supplement	Organic Chemistry as a Second Language, by David R. Klein
Website	Important information and quizzes will be posted on the website for this class. If you do not have access to a computer at home, you can use the computer lab that is on campus to access the web-page.
Prerequisite	Chemistry 185 (second semester general chemistry) with grade of 'C' or better.

Exams (85%)

Three exams will be given during the semester and will account for 60% of your final grade. In addition, there will be a final exam at the end of the semester that will be worth 25% of your final grade. Please be aware of the *tentative* exam dates listed in the "Tentative Schedule" section at the end of the syllabus. Mark them in your calendar, and be sure that you don't schedule any conflicting event. Exams may be given early to students if the circumstances warrant. Please see me at least one week before the scheduled exam date if you wish to take an exam early.

Homework, WebAssign, and In-Class Assignments (15% of your grade)

Homework: Homework assignments will be collected in class at the announced times during the semester (usually Monday). Homework includes problems from the text and worksheets. **Late homework is not accepted.**

Grading Homework and Worksheets:

- I grade your HW/ Worksheets primarily for completeness. Full credit is given if:
 - 1) All problems are completed and
 - 2) All work is clearly shown.

You will receive no credit for homework if it is not absolutely clear that you did the work rather than copy it from the solution manual.

NO CREDIT IS GIVEN FOR ANSWERS ONLY.

- I will also occasionally choose a few problems to check for correctness.
- You may be given very short quizzes in lecture that are copied directly from your homework problems. In the event that these are given, your HW grade for those chapters will be augmented with your HW quiz grade.

The completion of **every** homework assignment is essential to your success in this class. Chemistry is a "learn by doing" subject. Do not allow yourself to fall behind in your work. Catching up before a test is an extremely difficult task and is essentially impossible in organic chemistry.

WebAssign Online Quizzes: There will be weekly on-line homework quizzes. The quizzes will be posted on the class webpage (WebAssign link) and will be posted weekly. **These are essential for your success in this course!**

In-Class Assignments Collaborative and/or individual in-class work will be assigned during the semester during the lecture. **There are no make-ups of in-class assignments if you are absent or late to class.**

Grading

1. Course grades will be determined by the percentage of total points earned on exams and assignments according to the following scale:

88 - 100%	A
76 - 87%	B
63 - 75%	C
52 - 62%	D
0 - 51%	F

2. The instructor reserves the right to modify the grading schedule if necessary.
3. **The student must receive a minimum of average exam score of 60% in order to receive a passing grade ("C" or higher) in the course.**

MAKE-UP EXAMINATIONS

1. Students will only be permitted to make up **one** missed midterm examination.
2. No Exams will be dropped at the end of the semester.
3. Students will only be permitted to make up examinations missed in cases of doctor-verified illnesses on the day of the exam.
4. To be eligible to make up a missed examination, the student must complete all of the following requirements:
 - The student must notify Mr. Congleton **prior to the start of the examination**
Notification should either be in writing, by a telephone message on his voice mail (714-432-0202, ext 21302), or by e-mail (jcongleton@occ.cccd.edu).
 - The student must present written verification of the illness by a doctor.
5. Make-up exams must be taken within one weeks of the original exam date.
6. The instructor reserves the right to substitute different examinations in place of the original exams when make-up exams are administered. No accounting will be made for differences in levels of difficulty between substitute and original exams.
7. Make-up exams will not be administered for exams missed because of exams in other classes.
8. There will be no make-up examination for the final exam.

Week	Date	Monday	Date	Wednesday
1	1/28	Introduction CH 01: Structure of Organic Molecules	1/30	CH 01: Structure of Organic Molecules
2	2/4	CH 01: Structure of Organic Molecules CH 02: Bonding and Properties of Organic Molecules	2/6	CH 02: Bonding and Properties of Organic Molecules
3	2/11	CH 02: Bonding and Properties of Organic Molecules CH 03: Naming and Structure of Alkanes	2/13	CH 03: Naming and Structure of Alkanes
4	2/18	SCHOOL HOLIDAY	2/20	CH 03: Naming and Structure of Alkanes
5	2/25	CH 04: Study of Chemical Reactions	2/27	Exam #1: CHAP 1, 2, 3
6	3/3	CH 04: Study of Chemical Reactions	3/5	CH 05: Stereochemistry
7	3/10	CH 05: Stereochemistry	3/12	CH 06: Nucleophilic Substitution and Elimination
8	3/17	CH 06: Nucleophilic Substitution and Elimination	3/19	CH 06: Nucleophilic Substitution and Elimination
	3/24	SPRING BREAK	3/26	SPRING BREAK
9	3/31	CH 07: Structure and Synthesis of Alkenes	4/2	Exam #2: CHAP 4, 5, 6
10	4/7	CH 08: Reactions of Alkenes	4/9	CH 08: Reactions of Alkenes
11	4/14	CH 08: Reactions of Alkenes	4/16	CH 09: Alkynes
12	4/21	CH 09: Alkynes (finish) CH 13: NMR Spectroscopy	4/23	Exam # 3: CHAP 7, 8, 9
13	4/28	CH 10: Structure and Synthesis of Alcohols	4/30	CH 10: Structure and Synthesis of Alcohols
14	5/5	CH 11: Reactions of Alcohols	5/7	CH 11: Reactions of Alcohols
15	5/12	CH 14: Ethers and Epoxides	5/14	CH 14: Ethers and Epoxides
16	5/19	Review Day	5/21	Final Exam (Cumulative)