

CHEM 3310: Foundation Organic Chemistry, Syllabus, Fall 2009

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Lecture: TR 5:30 pm – 6:55 pm, @SM-304
Office Hours: T: 4:30-5:30 pm
R: 7:00-8:00 pm
CHC (Chemistry Help Center) at SM-229, day & time: TBA

Prerequisites: CHEM 1120

Textbook: Organic Chemistry, 5th Edition, Paula Y. Bruice

eCourseware: This course will use the course management program *eCourseware* to make announcements, provide course materials, post corrections, exam results, make assignments and take care of course details. **You should check in periodically** for information and updates. Failure to do so could result in missed information, assignments and credit.

Exams: There are three regularly scheduled exams, and a final exam. The exam dates will not change. There will be **NO** make-up exams. The missed exam will be recorded as a score of zero. The Final Exam is mandatory and will be comprehensive. A failing grade will be received if the final is missed.

Exam Schedule		
Exam 1	Sep 29	Tuesday
Exam 2	Oct 29	Thursday
Exam 3	Dec 1	Tuesday
Final Exam	Dec 17	Thursday (5:30 - 7:30 pm)

Assignment: Three homework assignments and two group work problem sets will be given in the semester.

Optional online homework assignment (Sapling Learning... see instruction below): Student who purchases homework system (**\$25 for full semester**) has to submit 10 online assignments. If student takes this option, the scores from online assignments worth ~10% of total course grade. Student must decide and register to the system in the **second week**, and no change is permitted for the semester.

Attendance: Attendance will not count directly toward the course grade, but will be taken, and will be used to assign grades to students on the borderline between two grades. **Regular attendance will be expected!!** If you are absent, it is the responsibility of the student to obtain materials and information.

Course Score and Grade: The course grade will be based upon:

Hour Exams	$100 \times 3 = 300$
Final Exam	$150 \times 1 = 150$
Assignments	$10 \times 5 = 50$
(Optional online homework)	$5 \times 10 = 50$

<u>Total score (w/o, online HW)</u>	<u>500 points</u>
<u>Total score (w/, online HW)</u>	<u>550 points</u>

Grading Scale: >88%: A (A+, A, A-)
88-74%: B (B+, B, B-)
74-60%: C (C+, C, C-)
60-50%: D (D+, D)
<50%: F

Code of Conduct: A learning environment in which all parties are respectful of others is essential. In addition, it is expected that each student will do his or her own work and honestly satisfy the requirements of the course. **All** work, exams and assignments **MUST** be the original work of the submitting student. Copied, plagiarized or shared work will not be accepted and is grounds for dismissal.

For Your Success:

- 1) Read the textbook sections noted on the schedule PRIOR TO the date that material will be discussed in class.
- 2) Working the problems will be your BEST study aid for Organic Chemistry. Do as many as you can!
- 3) Don't get behind!
- 4) When you feel difficulty about communication with your instructor, talk to her ASAP! She is always ready to work with you.

Course Learning:

- Structural notations (Lewis, Kekule, skeleton) and nomenclature,
- Functional groups & chemical classes,
- Bonding (using concepts of atomic and molecular orbitals),
- Isomerism (conformational, constitutional, stereochemical),
- Electronic delocalization (discussed in terms of both resonance and molecular orbitals),
- Introduction to spectroscopic characterization of organic structures (infra-red spectroscopy, one-dimensional NMR and UV),
- Reaction types (acid-base, addition, substitution, elimination, oxidation-reduction),
- Mechanism types (heterolytic/polar, hemolytic/radical),
- Reaction intermediates (radicals, cations, anions, carbenes),
- Reaction energetics and kinetics,
- Reactivity and reactions of alcohols, amines, carboxylic acids and carboxylic acid derivatives.

Instruction for optional online homework by Sapling Learning:

Sapling Learning is a recommended resource of organic homework questions featuring automatic, immediate scoring and feedback plus detailed solutions.

Please visit <http://www.saplinglearning.com/students/self-study-college-organic-chemistry> to see a sample of what is offered before deciding to register.

If you choose to use Sapling Learning for part of your homework grade in CHEM 3310, the cost is only \$24.99.

1. Go to <http://saplinglearning.com>
2. In the "Login" box there is a link to Sign up for new account. Click on it.
3. Choose a new username and password, and supply the other requested information. Click "Create my new account".
4. Check your email for a message with the subject "Sapling Learning: account confirmation" and click on the link provided in that email.
5. Find your course in the list (listed by school and instructor) and click the link.
6. Click the button that says "Send payment via Paypal or Credit Card" and follow the remaining instructions.
7. Once you have registered and enrolled, you can log in at any time to complete or review your practice sets.
8. If you have any problems, send an email to support@saplinglearning.com.