

ORGANIC CHEMISTRY

Chem 30C, Fall 2007

MWF 1:00-1:50 pm, CS24

Instructor: Yves Rubin (y Rubin@ucla@gmail.com)
Website: <http://siggy.chem.ucla.edu/VOH/30C/30C.html> (linked via VOH)

Office Hours: Thursdays 1:30 – 2:30 p.m. in Molecular Sciences 4515. You are all welcome to attend. I will focus primarily on answering questions to help clarify new concepts and material. I will announce additional OH's prior to the exams.

Textbook: Organic Chemistry, 4th Edition by Brown and Foote (3rd edition is fine, check my website for breakdown of sections and exercises); Saunders College Publishing.

Exams: Midterm I: **Wednesday, October 31** (CS24)
Midterm II: **Monday, November 19** (CS24)
Final exam: **Monday, December 10, 11:30 am – 2:30 pm** (location TBA)

	<u>Points</u>
2 midterm exams (100 pts ea.)	200
<u>Comprehensive</u> Final Exam	<u>200</u>
TOTAL	<u>400</u>

NOTES: For exams, I place **strong emphasis** on material taught in class. However, all material in sections listed on the class website may be covered. Questions in exams will extend beyond the scope of the book. For practice, use the **extra problem sets** and **previous exams** posted on my website. The format of my exams will not change much, so it is a good idea to practice the old ones (I will have “general concepts”, multi-step “reactions”, “mechanisms”, and “synthesis” sections)

• **ILLNESS:** *I do not give make-up exams. In case of illness or emergency for one of the midterms, the remaining exams will be weighted out. No grade is assigned per exam. No midterm score will be dropped. As per school policy, a grade of Incomplete can be given only if one is passing the course (grade C or better) and an authenticated illness or emergency has occurred to prevent you from taking the final exam.*

• **PROGRESS:** *I always look at the overall progress made by each one of you during the quarter. If you made strong progress, I take account of it in the final grade assignment (e.g. from B+ to A-).*

• **REGRADES:** *There will be **NO REGRADES** on any exam. If you have point addition errors, turn in your exam to me or your TA after class. Your TAs have extensive experience teaching and grading; I supervise the grading, it will be done fairly and consistently.*

Material: • **It is important to read the material in advance.** This is the *best way* to fully benefit from the lectures. Concentrate your studying on the material **covered in lectures**. The textbook is there as a support to help you understand concepts treated in class. However, good class notes tend to be much more useful since they reflect the personal teaching style of a professor.

• **Older material** (Chem 30A and B) is assumed to be understood and remembered to the extent possible; you should feel responsible to revise it if necessary. A handout is available on my VOH website:

[http://siggy.chem.ucla.edu/VOH/30C/PDF/130B Reaction Rev.pdf](http://siggy.chem.ucla.edu/VOH/30C/PDF/130B%20Reaction%20Rev.pdf)

Problems: • TAs will work with you in discussion sections on problems either from the book or from other sources. You should work on problems from the book on a regular basis, *otherwise last minute attempts* won't allow you enough time to absorb reactions and mechanisms (memorization does not work if you don't understand the mechanisms of the reactions).

• I am also providing more **comprehensive problem sets** to go somewhat beyond the level of the book's problems. These problems will not be graded, but answers will be posted on VOH. **Since the list of topics studied has changed considerably since Fall'04**, check also Prof. Maynard's and Kwon's VOH websites for past exams using the current course material, for example:

<http://voh.chem.ucla.edu/vohtar/fall04/classes/30C/>

<http://voh.chem.ucla.edu/vohtar/fall05/classes/30C/>

<http://voh.chem.ucla.edu/vohtar/spring06/classes/30C/>

TAs: **Daniel Chan**
Mitsuharu Suzuki

Office hours: TAs will announce them in discussion sections. It is fine to go to other TA's sections if you wish, *provided you request permission*.

Topics

- Ch. 19 (all enolate chemistry, aldol, Claisen and Dieckman condensations, Michael additions, Robinson annulation, Gillman reagent and 1,4-alkylations, alkyl lithium or Grignard 1,2-additions to alpha,beta-unsaturated carbonyls, etc)
 - Ch. 23 (Amines, all sections except 23.8.E - aromatic diazonium salts + Sandmeyer reaction)
 - Ch. 21.1-21.3 (Aromaticity)
 - Ch. 20.1 (Orbital configuration of dienes)
 - Ch. 22 (Aromatic Electrophilic/Nucleophilic Substitutions, all three including via benzyne)
 - Ch. 23.8.E (Aromatic amines, Sandmeyer reaction)
 - Ch. 21.4 (Phenols, Acidity, quinones)
 - Ch. 24.6, 24.7 (Diels-Alder reactions, Cope and Claisen rearrangements)
 - Ch. 25 (Carbohydrates, introduction, structure, some chemistry)
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