

# ORGANIC CHEMISTRY

Chem 30B, Fall 2005

MWF 12:00-12:50 pm, CS24

**Instructor:** Yves Rubin ([rubin@chem.ucla.edu](mailto:rubin@chem.ucla.edu))  
Website: <http://siggy.chem.ucla.edu/VOH/30B/30B.html> (linked also via reg. VOH)

**Office Hours:** Thursdays 1:30-2:30 p.m. in Molecular Sciences 4515. You are encouraged and welcome to attend. I will focus primarily on answering questions to help clarify new concepts and material. I am also happy to answer well-formulated e-mail questions!

**Textbook:** Organic Chemistry, 4<sup>th</sup> Edition by Brown and Foote (3<sup>rd</sup> edition is fine if you can copy problem sets from 4<sup>th</sup>); Saunders College Publishing, Orlando, Florida.

**NOTE:** For exams, primary emphasis will be placed on material taught in class, and some coverage and problems will extend beyond the scope of the book (handouts will be provided if necessary, see also previous exams on VOH).

**Exams:** Midterm I: **Wednesday**, November 3 (CS24)  
Midterm II: **Monday**, November 21 (CS24)

Final exam: **Monday**, December 12, 11:30 a.m – 2:30 p.m. (CS24)

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

• There are no make-up exams and no midterm score will be dropped. In case of illness or emergency for one of the midterms, the remaining exams will be weighted out. No grades are assigned per exam. Incompletes are given only if one is passing the course (grade C or better) and an authenticated illness or emergency has occurred.

• **Regrades:** There is in principle no regrade on the exams except for point addition errors (those few points you may gain almost never make any difference in the final grade!). If you must request a regrade, **the whole exam will be regraded and your total may end up lower.** Regrade requests must be turned in to my Young Hall mailbox by the end of the week (5 pm, after the Friday lecture) following their handing out. Good progress during the overall quarter will be considered in the final grade assignment.

**Material:** • **Review the material in advance!!!** This is the only way you will 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. I have requested the assistance of a Lecture Notes taker for the class to have this important source of support, which will hopefully be available...

• **Older material** (Chem 30A) 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 that contains reactions from both Chem 30A and 30B: [http://siggy.chem.ucla.edu/VOH/30C/PDF/130B\\_Reaction\\_Rev.pdf](http://siggy.chem.ucla.edu/VOH/30C/PDF/130B_Reaction_Rev.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, especially in Spectroscopy, won't allow you enough time to absorb the just of these techniques (memorization just doesn't work with that topic). I will also provide 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 for examples of Spectroscopy Problems in 30C exams linked on my 30B website (<http://siggy.chem.ucla.edu/VOH/30B/30B.html>). Check also Prof. Jung's Fall 2004 website for past exams using the current syllabus: <http://voh.chem.ucla.edu/vohtar/fall04/classes/30B/>

**TAs:** Amanda Dennis  
Robert Kennedy  
Betty Tang

*Office hours:* TAs will announce them in discussion sections. *It is OK* to go to other discussion sections or office hours if you want, *provided you request permission* from the TA first.

(see detailed and regularly updated list on my website)

Topics*	Textbook Chapter
Alcohols and Thiols	9
Ethers, Sulfides, and Epoxides	11
Infrared Spectroscopy	12
Nuclear Magnetic Resonance Spectroscopy	13
Mass Spectrometry	14 (if time permits)
Aldehydes & Ketones	16
Carboxylic Acids	17
Functional Derivatives of Carboxylic Acids	18

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\*Any necessary lecture material and handouts will be provided