

Chemistry 218
Winter, 2008

Lecture: MWF, 11-11:55, Carnegie 204

Group Problems Th 11-11:55, Carnegie 204

Instructor: Prof. Jennifer Koviach-Côté
217 Dana, jkoviach@bates.edu

Office Hours: Mon. 2-3, Thurs. 9:30-10:30

Course web page: <http://abacus.bates.edu/~jkoviach/218/218.html>

Course Materials:

Janice Gorzynski Smith, Organic Chemistry, 2nd ed. (required)

Smith, Study Guide and Solutions Manual (recommended, also on reserve)

Darling (or other brand) model kit (recommended)

Laboratory manual, available at the bookstore (required)

Safety Goggles (absolutely required)

Mohrig, Hammond, Schatz, The Organic Chem Lab Survival Manual, 2nd ed.
(1st ed. acceptable) (required)

Laboratory Notebook, available in the bookstore (must have duplicate pages, may use notebooks from other classes)

Klein, Organic Chemistry II as a Second Language (on reserve)

Course Requirements:

Attendance at all lectures. This course follows a very fast pace. If you miss a class, it is very easy to fall behind. Mondays, Wednesdays, and Fridays will be regular 55 minute lectures. On Mondays, there will be a short lab lecture.

Weekly 10 minute quizzes: The quizzes will be given at the beginning of lecture on Fridays, and will cover the material through the Wednesday lecture. The two lowest quiz grades will be dropped. See below for the make-up policy.

Participation in the Organic Chemistry Symposium: Poster presentation of a current topic. More information to come. Worth two quizzes.

Group Problem Sessions: Optional class on Thursdays. Not required, but a good opportunity to work problems in a group setting. These problems will be more challenging than the assigned problems.

Homework problems: Problem sets will be available on-line on Mondays, but will not be handed in or graded. You should try to work problems within the chapter as you read. You are encouraged to work as many problems as possible. It is also very beneficial to work the problems with a small group. The best way to learn organic chemistry is to practice.

Review Sessions: Informal review sessions will be announced the week of an exam.

Mid-term exams: There will be three mid-term exams, given on Thursdays which will cover material covered through the end of Monday lecture. Although each exam will emphasize the most recent material covered (including laboratory material), you will be responsible for all material covered to date. You may bring a calculator, pens or pencils, molecular models, and a ONE-SIDED 3x5 notecard with whatever you can fit on it. *Make-up exams will only be permitted with a note from the dean (see below).*

Final exam: There will be a comprehensive final exam on Friday, April 11 at 8:00 am.

Make-up Policy

Quizzes and Exams: If you are going to be absent because of a Bates related event, you must take the quiz or exam before it is given. If you must miss a quiz or an exam because of unforeseen events, you must get an excuse from the Dean of Students. The first two quizzes you miss will be considered your lowest quiz grades. You will be allowed to make-up the third missed quiz.

IF YOU MISS A QUIZ YOU WILL RECEIVE A ZERO. I MUST HAVE TWO DEAN'S EXCUSES ON FILE FOR YOU TO MAKE UP THE THIRD QUIZ.

NO EXAMS WILL BE GIVEN AFTER THE WEDNESDAY FOLLOWING THE EXAM.

Labs: If you are going to miss a lab for a Bates related event, you must make arrangements to make-up the lab before you miss the lab. **IF YOU MISS A LAB FOR A BATES RELATED EVENT AND DO NOT MAKE ARRANGEMENTS AHEAD OF TIME, YOU WILL RECEIVE A ZERO FOR THAT LAB.** If you miss a lab because of unforeseen events, you must get an excuse from the Deans of Students, and **YOU MUST MAKE-UP THE LAB WITHIN ONE WEEK.**

Electronic Resources

Web page (<http://abacus.bates.edu/~jkoviach/218/218html>): I rely heavily on the internet to relay information to you. Every handout from class, including problem sets, quizzes, and exams will be posted on-line. I also post answer keys on-line. There are many, many resources available to organic students on-line. I have not bothered to list these on my web page, but you can easily find them by doing a Google Search.

E-mail (fchem218a@abacus.bates.edu): I may, from time to time, e-mail the class, so please check your e-mail frequently. You may also use this e-mail address to send e-mail to the whole class, including me and Lorna. Please restrict the subject to organic chemistry, and remember, I get them too. If you prefer to e-mail me privately, my address is jkoviach@bates.edu.

Special Needs

If you have any documented special needs, please notify the instructor (and lab instructor if pertinent) at the beginning of the semester. It is your responsibility to arrange for alternate quiz and exam times.

Academic Misconduct

Academic misconduct includes but is not limited to: copying (quizzes, exams, lab reports, etc.), use of non-approved resources in exams and quizzes, using someone else's data, falsifying data (including yields and melting points), and plagiarism. *All cases of misconduct will result in a zero for that assignment and will be reported to the Dean of Students.*

Etiquette

In the classroom:

Please be polite and respectful of your fellow students and of me. **Please use the restroom before class.** Turn off all cell phones. If you must leave early or arrive late, let me know ahead of time, and please sit near the door.

Out of the classroom:

Please e-mail me instead of phoning. Do not whine about your grade. Although it may seem random to you, I grade exams very methodically, and I will explain the grading on the answer key. If you find a clerical or mathematical error, by all means please bring it to my attention. Otherwise, do not expect me to change your grade.

Tentative Schedule (subject to change)

Jan. 7	Hydrogenation, Ch. 12.3-12.5	Feb. 27	Carbonyl Ox/Red, Ch. 20
Jan. 9	¹³ C NMR, Ch. 14.11	Feb. 29	Carbonyl Ox/Red, Ch. 20
Jan. 11	MS, Ch. 13.1-13.3	Mar. 3	Carbonyl Ox/Red, Ch. 20
Jan. 14	Alkenes/Alkynes, Ch. 10, 11	Mar. 5	Carbonyl Ox/Red, Ch. 20
Jan. 16	Alkenes/Alkynes, Ch. 10, 11	Mar. 6	Exam 2
Jan. 18	Alkenes/Alkynes, Ch. 10, 11	Mar. 7	Nucleophilic Add'n, Ch. 21
Jan. 21	MLK Day	Mar. 10	Nucleophilic Add'n, Ch. 21
Jan. 23	Radicals and alkenes, Ch. 15	Mar. 12	Nucleophilic Add'n, Ch. 21
Jan. 25	Oxidation of Alkenes Ch. 12	Mar. 14	Acyl Substitution, Ch. 22
Jan. 28	Conjugated Systems, Ch. 16	Mar. 17	Acyl Substitution, Ch. 22
Jan. 30	Conjugated Systems, Ch. 16	Mar. 19	Acyl Substitution, Ch. 22
Feb. 1	NMR coupling constants	Mar. 21	Enolate Alkylation, Ch. 23
Feb. 4	Aromatics, Ch. 17	Mar. 24	Enolation Alkylation, Ch. 23
Feb. 6	Aromatics, Ch. 17	Mar. 26	Condensations, Ch. 24
Feb. 7	Exam 1	Mar. 27	Exam 3
Feb. 8	EAS, Ch. 18	Mar. 28	Condensations, Ch. 24
Feb. 11	EAS, Ch. 18	March 31	Carbohydrates, Ch. 28
Feb. 13	EAS, Ch. 18	April 2	Amino Acids/Proteins, Ch. 28
Feb. 15	EAS, Ch. 18	April 4	Review
Feb. 18	Break		
Feb. 20	Break		
Feb. 22	Break		
Feb. 25	Synthesis		
		Final Exam	Friday, April 11, 8:00 am

Grading

3 mid-term exams	15% each
Quizzes	15 %
Laboratory	20 %
Final exam	20%

Course grades are expected to be assigned as follows. The class mean may be adjusted appropriately such that the average student will earn approximately 75%. In order to pass the course, you must pass BOTH the lab and lecture portions.

A+	97 – 100 %	C+	70 - 73 %
A	93 - 96 %	C	66 – 69 %
A-	89 - 92 %	C-	62 – 65 %
B+	84 – 88 %	D+	58 – 61 %
B	79 - 83 %	D	54 – 57 %
B-	74 – 78 %	D-	50 – 53 %

Below 50% is a failing grade.