CHEM 2453, SECTION 2
ORGANIC CHEMISTRY 2
FALL QUARTER, 2012

Instructor Contact	Prof. Byron W. Purse SG Mudd Building Room 132 bpurse@du.edu; (303)-871-2937 (office)
Textbook	"Organic Chemistry", Second Edition, by Joseph M. Hornback
Exams	There will be two 80 min. exams during the quarter, each worth 150 points. The final exam is cumulative and is worth 300 points. If your final exam score is higher than one of your other exam scores, that exam score will be dropped and your final will count for 450 points. **There will be no make-up exams.** If you miss an exam, for *any reason*, it will have to count as the dropped exam. The final exam is not optional. **There will be no quizzes.** All questions are short answer -- I do not use multiple choice.
Grades	Your final grade will be based on a maximum of 640 points, distributed as follows: midterm exams and final exam, 600 points; homework, 40 points. All homework assignments contribute equally to the 40 point total.
Letter Grade Assignment	Grades will be curved as appropriate, but never downward. The assignment of a letter grade to a given numerical grade will depend on the overall class performance, is a part of my curving process, and so cannot be given precisely in advance. If you're concerned about your progress, then please make an appointment to meet me.
Homework	Assigned problems are a vital exercise that will help you to consolidate your understanding of the material and they will help you to be ready for the exams. Homework assignments will be given periodically in class. **These problem assignments must be submitted for grading. For many assigned problems, full points will be given merely for completing the assignment and showing your work, but *any number of problems may be graded for correctness at the instructor's discretion*.** It's ok for you to work in groups on these problems, but your submitted work must be your own. It is strongly recommended that you at least attempt to solve each problem independently before comparing with others, because this will give you the best opportunity to develop your understanding of the material. Solutions will be posted. *Homework that is not stapled or that is late receives a minimum 50% deduction.*

Recitation

Recitation is optional, but strongly recommended. During this session, I will solve the problems from the prior homework on the whiteboard, discuss them, and answer any questions. **Please do not skip this session without good reason and then come later to my office to ask for help on exactly the same material.** I always have a lot of work to do, and that's not cool.

Extra Help

Help is available in a variety of forms.

- Work with your classmates on difficult material.
- Talk to your laboratory TA in the lab or during his or her office hours.
- Make an appointment to meet with me (I use appointments rather than fixed office hours).
- Get a tutor. The Chemistry office has a tutor list, and I can also help you to find one.

Lecture Material

Powerpoint slides will be posted after class. I also do problem work on the whiteboard, giving students time to try the problems first, and then discussing the solution. Many have said that this is very valuable, and I do not post these solutions, so there is a clear advantage to attending the class.

Clickers

Clickers will not be used in this section.

Tips for Success

Do not fall behind.* The knowledge that you will develop builds on itself. Consequently, material later in the course will be enormously more difficult if you haven't mastered the material that comes first, and we will never move on to a point where you will not need the earlier material. Students who have fallen behind in the past have often experienced much higher stress levels and received disappointing grades.

Exams will be designed to test your *comprehension*, although some memory work is unavoidable when learning science. Expect that some exam questions will include a small "twist" that will be very easy handle if you have understood, but very hard if you have only memorized. This will be completely clear; I do not use trick questions.

Read the textbook and attend the class. ***You can check your preparation for the exams by redoing the homework problems without reference to your notes or the textbook.***

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Tentative Lecture Outline

DATE	TOPIC	READING ASSIGNMENT
Sept. 11	Chapter 12 Functional Groups and Nomenclature II	Read pp. 466-488, 491-494.
Sept. 13	Finish Ch. 12 and Start Ch. 18 Additions to the Carbonyl Group	Read pp. 739-790.
Sept. 18	continue	
Sept. 20	continue	
Sept. 25	continue	
Sept. 27	Finish Ch. 12 and Start Ch. 19 Substitutions at the Carbonyl Group	Read pp. 803-835, 840-843.
Oct. 2	continue	
Oct. 4	**EXAM 1**	Chapters 12 and 18
Oct. 9	continue Chapter 19	
Oct. 11	Finish Ch. 19	
Oct. 16	Start Ch. 20 Enolates and Other Carbon Nucleophiles	Read pp. 858-905.
Oct. 18	continue	

Oct. 23	Finish Ch. 19 and Start Ch. 21 The Chemistry of Radicals	Read pp. 918-948.
Oct. 25	continue	
Oct. 30	Finish Ch. 21 and Start Ch. 22 Pericyclic Reactions	Read pp. 956-1001.
Nov. 1	**Exam 2**	Chapters 19, 20, and 21
Nov. 6	Continue Chapter 22	
Nov. 8	continue	
Nov. 13	continue	
Nov. 15	Finish Chapter 22	
Tuesday Nov. 20 8:00-9:50 am	**FINAL EXAM** F.W. Olin Hall 205	Cumulative