Fall 2014
Chemistry 675
Advanced Organic Chemistry

MWF 10:35-11:30 AM 200 LSB

Professor John D. Chisholm

4-006 CST jdchisho@syr.edu 443-6894

Office Hours: By appointment, between 9 AM and 5 PM

Course Description: CHE675 is a graduate-level organic chemistry course focused on physical organic chemistry, which deals with the structure and reactivity of organic molecules and provides the foundation for understanding interactions involved in molecular, macromolecular, and supramolecular systems. CHE675 will cover reaction mechanisms, stereochemistry and conformational analysis to a more advanced degree than is done in most elementary courses. Writing reasonable reaction mechanisms and rationalizing the resulting stereochemistry for common organic transformations will be stressed.

Grading:	4 Exams (100 points ea)	400 pts
	4 Problem Sets (50 points ea)	200 pts

<u>If you are unable to make one of these exams please see Dr. Chisholm immediately.</u>

Problem Sets: There will be four problem sets during the semester. Problem sets are due by 5 PM in my office (CST 4-006) or my mailbox in the chemistry office (CST 1-014). Late problem sets will have 10 points deducted for every day they are turned in late (10 points off if turned in after 5 PM on the first day, 20 points off if turned in after 5 PM the next day, etc.).

Text: Grossman, Robert B. *The Art of Writing Reasonable Organic Reaction Mechanisms*, 2nd Ed. Springer-Verlag, 2003. This class will cover the first five chapters of this text.

Reading Assignments: Sections of the textbook to be read will be assigned in class. While they will not be collected and graded, the problems in the text should be performed. Additional reading material may also be assigned.

If you require any special consideration or accommodation due to a disability please see Dr. Chisholm immediately.

CHE 675 Course Calendar

Fall 2014

Day	Date	Lecture/Exam	Problem Sets	Readings
Mon	Aug 25	Lecture 1		Grossman CH 1+2
Wed	Aug 27	Lecture 2	PS-1 out	
Fri	Aug 29	Lecture 3		
Mon	Sept 1	**Labor Day (no classes)**		
Wed	Sept 3	Lecture 4		
Fri	Sept 4	Lecture 5		
Mon	Sept 8	Lecture 6		
Wed	Sept 10	Lecture 7		
Fri	Sept 12	Lecture 8	PS-1 in	
Mon	Sept 15	Lecture 9		
Wed	Sept 17	Lecture 10		
Fri	Sept 19	**Examination 1**		
Mon	Sept 22	Lecture 11	PS-2 out	Grossman CH3
Wed	Sept 24	Lecture 12		
Fri	Sept 26	Lecture 13		
Mon	Sept 29	Lecture 14		
Wed	Oct 1	Lecture 15		
Fri	Oct 3	Lecture 16		
Mon	Oct 6	Lecture 17		
Wed	Oct 8	Lecture 18		
Fri	Oct 10	Lecture 19	PS-2 in	
Mon	Oct 13	Lecture 20		Grossman CH4
Wed	Oct 15	Lecture 21		
Fri	Oct 17	**Examination 2**		
Mon	Oct 20	Lecture 22	PS-3 out	
Wed	Oct 22	Lecture 23		
Fri	Oct 24	Lecture 24		
Mon	Oct 27	Lecture 25		
Wed	Oct 29	Lecture 26		
Fri	Oct 31	Lecture 27	PS-3 in	
Mon	Nov 3	Lecture 28		
Wed	Nov 5	Lecture 29		
Fri	Nov 7	**Examination 3**		
Mon	Nov 10	Lecture 30	PS-4 out	Grossman CH5
Wed	Nov 12	Lecture 31		Grossman p.290-292
Fri	Nov 14	Lecture 32		Carey CH2
Mon	Nov 17	Lecture 33		
Wed	Nov 19	Lecture 34		
Fri	Nov 21	Lecture 35		
Mon	Nov 24	**Thanksgiving Break (no classes)**		
Wed	Nov 26	**Thanksgiving Break (no classes)**		
Fri	Nov 28	**Thanksgiving Break (no classes)**		
Mon	Dec 1	Lecture 36	PS-4 in	
Wed	Dec 3	Lecture 37		
Fri	Dec 5	**Examination 4**		