

CH 621 ADVANCED ORGANIC CHEMISTRY/ORGANIC SYNTHESIS

SPRING 2009

Th 4:30 pm to 7:45 pm

location: Sci-1-089

Instructor: Dr. Bela Torok
Room S-1-32, Science Building
Tel: 287-6159 e-mail: bela.torok@umb.edu

Office Hours: Wednesday: 10am-12am
Friday: 11 am to 12 am

Exams: Mid-term 1: 05 March 2007
Mid-term 2: 16 April 2007
Final exam: 18-22 May 2007, TBA
Quizzes (5): see Course Outline

There will be no make up quizzes or exams. In case of any serious problems contact me in advance.

Grading: Grades will be determined on the basis of your performance in the following areas:

Quizzes(5):	50	Paper referals (2):	50
Mid-term 1:	75		
Mid-term 2:	75		
Final Exam:	150		

The grades will be computed by the percentage of the total 400 points. The percentile-grade equivalences are as follows:

Grading:	400-375	A
	374-350	A-
	349-325	B+
	324-305	B
	304-290	B-
	289-275	C+
	274-260	C
	259-245	C-
	244-230	D+
	229-215	D-
	214-200	D-
	below 200	F

Both quizzes and exams will be designed to test your ability to apply what you have learned. They will be only short-answer type questions and short essays.

Classroom rules: As usual. Please, be in time. In case of any problem, let me know it in advance.

Books:

R. K. Mackie, D. M. Smith, R. A. Aitken; Guidebook to Organic Synthesis, Prentice Hall

Reference books:

March: Advanced Organic Chemistry, Wiley

Smith: Organic Synthesis, McGraw-Hill

Summary Statement

The purpose of this course is to take you to the level of the contemporary Organic Chemistry. Several different topics will be discussed. See outline.

Tentative Course Outline

Week	Date	Topic	Graded works
1		Introduction	
2	02/05	Microwave Chemistry	
3	02/12	Sonochemistry	presentations
4	02/19	Organofluorine Chemistry	Quiz1 , presentations
5	02/26	Oxidation	Quiz2 , presentations
6	03/05	Reduction	EXAM 1 presentations
7	03/12	Hydroboration	presentations
8	03/19	Spring Brake	No Class
9	03/26	Protecting Groups	Quiz 3 , presentations
10	04/02	Reactions of organometallic compounds	presentations
11	04/09	C-C bond forming reactions through carbanions	Quiz4 , presentations
12	04/16	Cyclization (Ring-Closure) and Ring Opening	EXAM 2 presentations
13	04/23	Asymmetric Synthesis	presentations
14	04/30	Asymmetric Synthesis	Quiz5 , presentations
15	05/7	Catch-up, Review, Discussion	
16	TBA	Final Exam	

Academic Integrity

Students are required to adhere to the University Policy on Academic Standards and Cheating, to the University Statement on Plagiarism and the Documentation of Written Work, and to the Code of Student Conduct as delineated in the catalog of Undergraduate Programs, pp. 44-45, and 48-52. The Code is available online at: http://www.umb.edu/student_services/student_rights/code_conduct.html .