Syllabus

Chemistry 5312: Advanced Organic Synthesis

Spring, 2012

Course Webpage http://www.uta.edu/faculty/jjeon/Site/Courses.html

Handouts, problem sets, the evolving reading assignment list (with exam schedule and problem set due dates), and some additional resources (like old exams) will be available at this site or via email.

Instructor Junha Jeon CRB 203 817-272-0262 jjeon@uta.edu

Lectures MWF; 9:00–9:50 am SH 205

Office Hours **Mon**, 10:00-11:00 am and **Wed**, 10:00-11:00 am (or by appointment)

Textbooks: **required**:

Advanced Organic Chem, Fifth Edition - Part B: Reactions and Synthesis, by Francis A. Carey and Richard J. Sundberg. Springer: New York, 2008. ISBN 978-0-387-68354-6.

Strategic Applications of Named Reactions in Organic Synthesis, by Laszlo Kurti, Barbara Czako. Elsevier: Boston, 2005. ISBN-13: 978-0124297852.

auxiliary:

Advanced Organic Chem, Fifth Edition - Part A: Structure and Mechanisms, by Francis A. Carey and Richard J. Sundberg. Springer: New York, 2008.

Modern Physical Organic Chemistry, by Eric V. Anslyn and Dennis A. Dougherty. University Science Books: Mill Valley, CA, 2006. ISBN: 978-1891389313.

Modern Organic Synthesis: Lecture Notes, by Dale L. Boger. TRSI Press: San Diego, 1999.

Andrew G. Myers Handouts: http://www.chem.harvard.edu/groups/myers/page8/page8.html

Course Description This course is envisioned to discuss the major topics and issues in organic synthesis: Mechanistic analysis, structure, stereochemistry, asymmetric synthesis, conformational analysis, and, especially, stereo-, regio-, and chemoselectivity.

Course Grades:

Problem Set	10%	
Project*	20%	*Presentation Dates: April 11th and 13th*
Midterm Exams (2)	40%	
Final Exam	30%	

Problem Sets: ca. ten, throughout the semester (ca. weekly, except for exam weeks).

Project (8321): ACS-Style Research Presentations (each student per assigned full paper) on two class hours in April; details to follow.

Exams (all): Midterm Exams: 8–10 am (2 h) Wednesday, February 22 (ca. 16 lectures)

8–10 am (2 h) Friday, March 30 (ca. 15 lectures)

Final Exam: 8-10:30 am (2.5 h) Wednesday, May 9 (ca. 15 lectures)