Syllabus
Chemistry 5312: Advanced Organic Synthesis
Spring, 2016

Course Webpage

Blackboard (syllabus, course materials, and quizzes): https://elearn.uta.edu

Syllabus and course description: http://www.uta.edu/faculty/jjeon/Site/Courses/

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 these sites.

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

Lectures MWF; 10:00–10:50 am SH 331

Office Hours

Mon, 11:00 am-12:00 pm and **Wed**, 1:00 pm-2:00 pm (or by appointment)

Textbooks:

Required:

Advanced Organic Chemistry, 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.

Available online via our library:
http://uta.summon.serialssolutions.com/search?utf8=✓&s.q=978-0-387-68354-6#!/search?q=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.

Suppementary:

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

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

Classics in Stereoselective Synthesis, by Erick M. Carreira and Lisbet Kvaerno, 2009, ISBN: 978-3-527-29966-9.

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

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

Available online via our library:
http://uta.summon.serialssolutions.com/search?utf8=✓&s.q=978-0387683461#!/search?q=978-0387683461

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%
Midterm Exams (2)	40%
Final Exam	30%
Presentation Dates:	*April 15th and 18th*

Problem Sets: ca. twelve, 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: 10 am–12 pm (2 h) Wednesday, February 17th (ca. 16 lectures)

10 am–12 pm (2 h) Monday, April 4th (ca. 15 lectures)

Final Exam: 10 am–12 pm (2 h) Monday, May 9th (ca. 14 lectures): *Details to be discussed*.