Special Topics in Fine Chemicals & Polymers 002

Department of Chemical and Biological Engineering, 2007/2

☑ *The lecture will be delivered in English*

Class Hours Tuesdays and Thursdays 2:30 – 3:45 pm (458.703 (002))
Classroom 302-719

Instructor Dr. Young Gyu Kim; Room 302-728, 880-8347, ygkim@snu.ac.kr
Office Hours 1:00 – 2:00 pm, Monday through Friday

Website http://eng.snu.ac.kr/lecture (458.703 002 정밀화학및고분자특강)

Textbook *Advanced Organic Chemistry, Part A 5th ed.* Springer, **2007**: Francis A. Carey and Richard J. Sundberg.

References
1. *March's Advanced Organic Chemistry: Reactions, Mechanisms, and Structure*, 5th ed.; Wiley, **2001**: Michael B. Smith and Jerry March.
2. *Stereochemistry of Organic Compounds*, Wiley, **1994**: Eliel, E. L.; Wilen, S. H.
3. *Advanced Organic Chemistry, Part B, 4th ed.* Kluwer Academic/Plenum, **2001**: Francis A. Carey and Richard J. Sundberg.

Grading Total 780 points (No credits for missing more than a quarter of the total class hours or 2 reports or 1 exam)
- **Homework** 8 Reports on selected Homework problems; 8 Reports x 30 points = 240 points, due on every following Tuesday after each chapter is finished
- **Hour Exam** 3 x 100 points = 300 points
- **Final Exam** Comprehensive 240 points

Schedule

Week	*Topics*	*Chapter/page*	*Remarks*
1/Sep 3	Introduction / Bonding & Structure	Ch 1/page 1	
2/Sep 10	(No classes)		
3/Sep 17	Ch 1 & Stereochem/Selectivity	Ch 2/page 119	
4/Sep 24	Ch 2	(continued)	HW#1 Due
5/Oct 1	Structural Effects	Ch 3/page 253	HW#2 Due
6/Oct 8	Ch 3	(continued)	
7/Oct 15	Nucleophilic substitution	Ch 4/page 389	HW#3 Due
7/Oct 16, 7 pm	*1st Hour Exam (2 hrs)*	Chapters 1-3	
8/Oct 22	Ch 4	(continued)	
9/Oct 29	Polar Addition & Elimination	Ch 5/page 473	HW#4 Due
10/Nov 5	Carbanions & Other nucleophiles	Ch 6/page 579	HW#5 Due
10/Nov 6, 7 pm	*2nd Hour Exam (2 hrs)*	Chapters 1-5	
11/Nov 12	Reactions of Carbonyls	Ch 7/page 629	HW#6 Due
12/Nov 19	Ch 7	(continued)	
13/Nov 26	Concerted Pericyclic Reactions	Ch 10/page 833	HW#7 Due
13/Nov 28, 7 pm	*3rd Hour Exam (2 hrs)*	Chapters 1-7	
14/Dec 3	*(continued)*	*(Ch 10)*	HW#10 Due
15/Dec 11	*Final Exam (3 hrs, 2:30 pm)*	Chapters 1-10	