

Syllabus and Class Schedule: Organic Chemistry of Fine Chemicals

Department of Chemical and Biological Engineering, 2017/1

Course Description Industrial organic chemistry and processes to obtain fine chemicals from natural gas and refinery products will be taught.

Class Hours Tuesdays and Thursdays 14:00 – 15:15
Classroom 302-719

Instructors Dr. Yoon-Sik Lee; Room 302-724, 880-7073, yslee@snu.ac.kr

Office Hours 3:30 - 4:00 pm, Tuesdays and Thursdays at each instructor's office

Website <http://spos.snu.ac.kr>

Pre-requisites Organic Chemistry 1 & 2
Textbook H. Wittcoff, B. Reuben, J. Plotkin, "Industrial Organic Chemicals", 3rd Ed., Wiley & Sons, Inc (2013).

Grading Based on the total of 200 points
Mid Exam 100 points
Final Exam 100 points
Grade 'F' will be given to students who miss a quarter of class hours.

Schedule

<u>Week</u>	<u>Topic</u>	<u>Chapter</u>	<u>Remarks</u>
1	Industrial Organic Chemicals & Carbon Source	Chapter 1-3	
2	Petroleum Refining Process	Chapter 4	
3	Introduction to Petrochemicals C2 Chemistry/Chemicals	Chapter 4	
4	C2 Chemicals from Ethylene (continued)	Chapter 5	
5	C3 Chemistry/Chemicals from Propylene	Chapter 6	
6	C1 Chemistry	Chapter 12	
7	C1 Chemicals		<i>First-Half</i>
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8	Midterm Exam		
9	C4 and C5 Chemistry	Chapter 7	
10	C4/C5 Chemicals	Chapter 8	
11	Chemicals from BTX	Chapter 9-11	
12	Surfactants	Handout	
13	Halogen Compounds	Handout	
14	Green Chemistry	Chapter 19	
15	Synthesis of Fine Chemicals <u>Final Exam, 7:00 -9:00 pm</u>	Handout	<i>Second-Half</i>