Subject (English)	Organic Chemistry		- Semester	Fall	Day/Slot	Wed. / 4 th 14:40-16:10
科目名 (日本語)	有機化学					
Course Code	VJ214F74 Course Numbering		SCH-ORG801E		Period	Oct. 2, 2019 - Jan. 22, 2020
	Eunsang Kwon (Assoc. Prof.)				Campus	Aobayama
Instructor (Post)					Building	1) Chemistry Students Laboratory 2F 2) Science Complex A
Faculty	Faculty of Science		Credits	2	Class Room	①Media Training Room ②Room 406

Class subject Fundamentals of Organic Chemistry

Object and summary of class

This class object is to study the fundamentals of chemical structure and bonding, organic compounds, stereochemistry, organic reactions, and molecular orbitals for organic molecules. Associate professor Eunsang Kwon will give the lecture.

Keywords chemical bonding, structure, acids and bases, stereochemistry, organic reactions

Goal of study

The goal of this class is to understand the basics of chemical reactions and be able to apply them to typical organic reactions. In this course, students will learn the structure and physical properties of organic molecules using a molecular modeling program on a computer system.

molecular modeling program on a computer system.							
Contents and progress schedule of class							
No.	Date	Contents					
1	10/2	Structure and Bonding (@ Room 406, Science Complex A)					
2	10/9	Polar Covalent Bonds: Acids and Bases					
3	10/16	Organic Compounds: Alkanes and Their Stereochemistry					
4	10/23	Organic Compounds: Cycloalkanes and Their Stereochemistry					
5	10/30	Alkenes: Structure and Reactivity					
6	11/6	Alkenes: Reactions and Synthesis					
7	11/13	Alkynes: An Introduction to Organic Synthesis					
8	11/20	Stereochemistry					
9	11/27	Organohalides					
10	12/4	Reactions of Alkyl Halides: Nucleophilic Substitutions and Eliminations					
11	12/11	Structure Determination: Nuclear Magnetic Resonance and Infrared Spectroscopies					
12	12/18	Conjugated Compounds and Ultraviolet Spectroscopy					
13	1/8	Benzene and Aromaticity					
14	1/15	Chemistry of Benzene: Electrophilic Aromatic Substitution					
15	1/22	Final Exam.					
Prepa	Preparation Nothing special						
Record and evaluation method			Short Test Questions 20%, Final Written Exam 80%.				
Textbook and references			Organic Chemistry, 8th ed., by John McMurry, Publisher: CENGAGE Learning, 2011 (ISBN-10: 0840054440, ISBN-13: 9780840054449, previous edition is usable).				
Self study Nothing special							
In addition -							