Year	Second semester 2025
Course	Organic Chemistry
Day/Period	Wed.4Period
Credit(s)	2Credits
Instructor	EUNSANG KWON
Eligible Participants	3rd grade and above
Course code/number	
Main Subjects	
Course of Media Class	
Practical business	○
Language Used in Course	English
Course Title	Organic Chemistry
Purpose/Abstract	In this course, students will study the fundamentals of chemical structure and bonding, organic compounds, stereochemistry, organic reactions, and molecular orbitals of organic molecules.
Goal	This course aims to provide a foundational understanding of chemical reactions and their application to typical organic reactions. Students will learn to analyze the structure and physical properties of organic molecules using molecular modeling software.
Contents and progress schedule of the class	This course will consist of 10 sessions, including a final exam. The timing of the Guest Lecture is yet to be determined. 1. Introduction to Computational Chemistry & Molecular Orbital Calculation Software Practice 2. Structure and Bonding & Polar Covalent Bonds: Acids and Bases 3. Alkanes and Cycloalkanes: Structure and Stereochemistry 4. Alkenes and Alkynes: Structure, Stereochemistry, Reactivity, Reactions 5. Organohalides, Reactions of Alkyl Halides 6. Structure Determination: NMR and IR Spectroscopies 7. Conjugated Compounds and Ultraviolet Spectroscopy, Benzene and Aromaticity 8. Chemistry of Benzene: Electrophilic Aromatic Substitution 9. Guest Lecture 10. Final Exam.
Grading	The course grade will be determined by short tests (20%) and a final written exam (80%).
Books required/referenced	Organic Chemistry, 8th ed., by John McMurry, Publisher: CENGAGE Learning, 2011 (ISBN-10: 0840054440, ISBN-13: 9780840054449, earlier or later editions are also acceptable)
Contents of preparation and review	No specific out-of-class study is required.
Study time for preparation and review	0
How to contact and Google Classroom Code	For any inquiries, students are requested to contact the professor via email. Please ensure to include the course name and your student ID in the subject line.
Remarks	
Last Update	

One-credit courses require 45 hours of study. In lecture and exercise-based classes, one credit consists of 15-30 hours of class time and 30-15 hours of preparation and review outside of class. In laboratory, practical skill classes, one credit consists of 30-45 hours of class time and 15-0 hours of preparation and review outside of class.