

シラバス参照

科目名/Subject	【JYPE】有機化学
曜日・講時/Day/Period	後期 水曜日 4講時
科目群/Categories	JYPE科目
単位数/Credit(s)	2
対象学部/Object	
担当教員(所属) /Instructor (Position)	Tienan Jin (Associate Professor)
セメスター/Semester	Fall Semester, Wednesday 4 Lecture hour
科目ナンバリング /Course Numbering	-E
使用言語 /Language Used in Course	英語

授業題目 /Class Subject	Organic Chemistry						
授業の 目的と概要 /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.						
学修の 到達目標 /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, reactivity of functional group, and physical properties of organic molecules.						
授業内容・ 方法と 進捗予定 /Contents and Progress Schedule of the Class	1. Molecule Introduction & atoms & bonding 2. Polar Covalent Bonds: Acids and Bases 3. Organic Compounds: Alkanes and Their Stereochemistry 4. Alkenes: Organic structure and Reactivity 5. Reactions with electrophiles; addition to double bonds 6. Alkynes: An Introduction to Synthesis 7. Nucleophilic substitution of haloalkanes 8. Substitution reactions of alcohols, cyclic ethers 9. Reactions of nucleophiles with aldehydes, ketones, esters, and carboxylic acids 10. Reactions with electrophiles; addition to double bonds 11. Electrophilic substitution of benzene 12. Structure determination: nuclear magnetic resonance and infrared spectroscopies 13. Conjugated compounds, Ultraviolet spectroscopy, Organic materials for photovoltaics 14. Solve problem (Practice training) 15: Final examination						
成績評価 方法 /Evaluation Method	Class Participation 20%, Homework Assignment 20%, Final Written Exam or Report 60%.						
教科書 および 参考書 /Textbook and References	No	書名	著者名	出版社	出版年	ISBN/ISSN	資料種別
	1.	『Organic Chemistry』		CENGAGE Learning	2011	0840054440	
関連URL /URL							
授業時間外 学修 /Preparation and Review	nothing special						
その他 /In Addition	If there are less than 3 students enrolled, the lecture will not be held.						
更新日付 /Last Update	2024/03/04 14:05						

30時間に授業および授業時間外学修(予習・復習など)30～15時間、「実験、実習及び実技」については30～45時間の授業および授業時間外学修(予習・復習など)15～0時間です。

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.

