

COURSE DETAIL

PHYSICAL ORGANIC CHEMISTRY

Country

Korea, South

Host Institution

Korea University

Program(s)

Korea University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Chemistry

UCEAP Course Number

149

UCEAP Course Suffix**UCEAP Official Title**

PHYSICAL ORGANIC CHEMISTRY

UCEAP Transcript Title

PHYS ORGANIC CHEMIS

UCEAP Quarter Units

4.49

UCEAP Semester Units

3.00

Course Description

This course covers systematizing organic reactions, examining the relationship between reaction mechanisms, molecular structure, reactivity, and chemical properties.

Topics include Structure, reactivity, and mechanism, Energetics, Kinetics and investigation of mechanism, Strengths of acids and bases, Nucleophilic Substitution at a saturated carbon atom, Carbocations, electron-deficient N and O atoms and their reactions, Electrophilic and nucleophilic substitution in aromatic systems, Electrophilic and nucleophilic addition to C=C, Nucleophilic addition to C=O, Elimination reactions, Carbanions and their reactions, Symmetry controlled reactions.

Language(s) of Instruction

English

Host Institution Course Number

CHEM322

Host Institution Course Title

PHYSICAL ORGANIC CHEMISTRY

Host Institution Course Details

<https://sugang.korea.ac.kr/>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

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