COURSE DETAIL

ORGANIC CHEMISTRY I

Country
Ireland

Host Institution
University College Dublin

Program(s)
Dublin Summer Physics,Dublin Summer Chemistry

UCEAP Course Level
Lower Division

UCEAP Subject Area(s)
Chemistry

UCEAP Course Number
11

UCEAP Course Suffix
S

UCEAP Official Title
ORGANIC CHEMISTRY I

UCEAP Transcript Title
ORGANIC CHEMISTRY I

UCEAP Quarter Units
6.00

UCEAP Semester Units

4.00

Course Description

The course teaches key concepts prevalent in organic chemistry and the resulting properties of organic molecules. These are presented based on standard U.S. text books and are complemented by specific examples of compounds present in important drug molecules and natural products. Introductory topics include molecular structure, chemical bonding, and orbital interactions. The resulting properties of molecules are then introduced on key compound classes such as alkanes, alkenes, and alkynes that later are complemented by aromatic rings and functional groups such as alcohols, carbonyls, and amines. Furthermore, the crucial properties that explain the reactivity of organic molecules and enable a detailed understanding through distinct reaction mechanisms are highlighted throughout the course. Finally, these concepts are applied towards the planned synthesis of target molecules in combination with suitable structure determination methods.

Language(s) of Instruction
English

Host Institution Course Number

Host Institution Course Title
ORGANIC CHEMISTRY I

Host Institution Course Details
https://uceap.sharepoint.com/:b:/s/DocumentLibrary/EY3l1zyP2r9Oi8Uf9KlM1Z4BgMER...

Host Institution Campus
University College Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department
School of Chemistry

Course Last Reviewed
2025-2026

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