

COURSE DETAIL

ORGANIC CHEMISTRY II

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

12

UCEAP Course Suffix

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UCEAP Official Title

ORGANIC CHEMISTRY II

UCEAP Transcript Title

ORGANC CHEMISTRY II

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

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ORGANIC CHEMISTRY II

Host Institution Course Details

<https://uceap.sharepoint.com/:b/s/DocumentLibrary/EY3I1zyP2r9Oi8Uf9KIM1Z4BgMER...>

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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