

COURSE DETAIL

MOLECULAR NUTRITION

Country

Ireland

Host Institution

Trinity College Dublin

Program(s)

Trinity College Dublin

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biochemistry

UCEAP Course Number

137

UCEAP Course Suffix**UCEAP Official Title**

MOLECULAR NUTRITION

UCEAP Transcript Title

MOLECULAR NUTRITION

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course develops an understanding of the molecular basis of life through study of the role of nutrients, not only as a source of energy but, as key elements that determine our cellular and whole-body physiology. The metabolism of carbohydrates, proteins, and lipids and the role of vitamins are presented in the context of human health and disease. The consequences of vitamin deficiencies, mechanisms that allow cells to survive starvation and metabolic derangements such as diabetes and those caused by alcohol consumption are discussed. The course builds on Section 2 (Chemistry of Life) of BYU11101 (Molecules to Cells I) and CHU11B01 (Chemistry for Biologists). While this course is free standing and open, it does complement and expand on the lectures on metabolism in Module BYU22201 (Molecules to Cells II). This course is to prepare students hoping to pursue a moderatorship in the molecular biological sciences.

Language(s) of Instruction

English

Host Institution Course Number

BYU22208

Host Institution Course Title

MOLECULAR NUTRITION

Host Institution Course Details

<https://my.uceap.universityofcalifornia.edu/sites/default/files/host-course-syl...>

Host Institution Campus

Trinity College Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department

Biology

Course Last Reviewed

2024-2025

[Print](#)