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

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