

COURSE DETAIL

BIOCHEMISTRY AND MOLECULAR BIOLOGY

Country

Australia

Host Institution

University of Sydney

Program(s)

University of Sydney

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biochemistry

UCEAP Course Number

114

UCEAP Course Suffix**UCEAP Official Title**

BIOCHEMISTRY AND MOLECULAR BIOLOGY

UCEAP Transcript Title

BIOCHEM & MOLEC BIO

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course examines how cells work at the molecular level, with an emphasis on human biochemistry and molecular biology. It focuses initially on how genetic information is regulated in eukaryotes, including replication, transcription and translation, and molecular aspects of the cell cycle, mitosis and meiosis. Then it explores cellular metabolism and how cells extract and store energy from fuels like fats and carbohydrates, how the use of fuels is modulated in response to exercise, starvation and disease, and how other key metabolites are processed.

Language(s) of Instruction

English

Host Institution Course Number

BCMB2001

Host Institution Course Title

BIOCHEMISTRY AND MOLECULAR BIOLOGY

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

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