

Course Outline (Higher Education)

School:	School of Health and Life Sciences
Course Title:	CELLULAR METABOLISM
Course ID:	BTHGC2752
Credit Points:	15.00
Prerequisite(s):	(BIOGC1722 and CHMGC1011)
Co-requisite(s):	Nil
Exclusion(s):	Nil
ASCED:	010901

Description of the Course :

The unit begins with a general overview of metabolism and bioenergetics. This is followed by a comprehensive survey of cellular metabolism including: the generation of energy from major dietary components: carbohydrate, protein and lipid; the biosynthesis of carbohydrates, lipids and nucleotides; and amino acid metabolism. A study of photosynthesis illustrates the linkage between electron transport systems and biosyntheses. The integration and control of cellular biochemistry and the role of hormones in metabolic regulation is emphasised.

Grade Scheme: Graded (HD, D, C, etc.)

Supplementary Assessment: Yes

Where supplementary assessment is available a student must have failed overall in the course but gained a final mark of 45 per cent or above and submitted all major assessment tasks..

Learning Outcomes:

On completion of this unit students will be able to:

1. Explain the mechanisms involved in the storage and processing of metabolic fuels;
2. Discuss mechanisms for control of metabolic reaction sequences;
3. Describe the specialised metabolic role of various tissues;
4. Explain how metabolic processes are integrated and regulated;
5. Demonstrate advanced laboratory skills;
6. Collect, interpret and present experimental data in an accessible and appropriate format.

Course Content:

Values and Graduate Attributes:

Learning Task and Assessment:

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Learning Outcomes Assessed	Learning Tasks	Assessment Type	Weighting
Assignment work	Assignment work	Assignment work	20%
Practical work	Practical work	Practical work	30%
Examination (3 hours)	Examination (3 hours)	Examination (3 hours)	50%

Adopted Reference Style: