Course Outline (Higher Education)

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

Description of the Course :

This unit begins with a study of the molecules making up the cell: carbohydrates, lipids, proteins and nucleic acids. This forms the basis for the consideration of cell structure and function. The principles of cellular organisation, cellular metabolism and genetics are introduced. The laboratory program illustrates fundamental aspects of the theory course.

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. Sketch a representative animal and/or plant cell;
2. Recognise cell organelles and state their function;
3. Draw representative structures for each of the major classes of biological macromolecules;
4. Summarise the roles of biological macromolecules in living cells;
5. Give examples of the relationship between macromolecular structure and function;
6. Discuss the cooperative action of the biological macromolecules responsible for cell function such as membrane transport processes and cell division;
7. Recognise common features of energy transduction systems in plant and animal cells;
8. Demonstrate basic laboratory skills - eg. measurement of mass, volume and time, recording and interpretation of experimental data, and report writing.

Course Content:

Values and Graduate Attributes:

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BIOGC1722 CELL BIOLOGY

Learning Task and Assessment:

Learning Outcomes Assessed	Learning Tasks	Assessment Type	Weighting
Mid-semester test and final examination	Mid-semester test and final examination A pass in both the theory and practical components is mandatory	Mid-semester test and final examination	70%
Practical work	Practical work. A pass in both the theory and practical components is mandatory	Practical work	30%

Adopted Reference Style: