

BIOL 107, Introduction to Cell Biology

3 credits, 3 hours lecture per week, 3 hours laboratory per week

Course Description

This course is an introduction to cellular structures, molecules, energetics and processes, including that of both prokaryotic and eukaryotic cells. The course includes topics on cellular structures and functions, cellular respiration, photosynthesis, cell division, and the molecular expression of genetic material through the processes of replication, transcription and translation.

Pre and Co-requisites

Prerequisites: Biology 30 and Chemistry 30

Note: BIOL 107 and 108 can be taken in any order; neither course is a pre-requisite for the other.

Course Learning Outcomes (CLOs)

Upon successful completion of the course, the student shall be able to:

- CLO1 Apply knowledge of the structure of molecules and cells to explain how energy, matter, and information move within and between cells of eukaryotes and prokaryotes.
- CLO2 Demonstrate a number of important laboratory techniques used in the study of cell and molecular biology.
- CLO3 Apply the scientific method to generate and analyze data obtained in the lab.
- CLO4 Demonstrate written communication skills through exams and laboratory assignments.

Evaluation

Assessment Type	Percentage
Laboratory	40%
Midterm Examinations	30%
Final Examination	30%

Course Completion Requirements

Minimum passing mark of 60% or C- is required for progression or transfer.

Grading Scale

4.0 Grade Scale	Alpha Grade	Percentage Grade
4.0	A+	93-100
4.0	A	85-92.9
3.7	A-	80-84.9
3.3	B+	77-79.9
3.0	B	74-76.9
2.7	B-	70-73.9
2.3	C+	67-69.9
2.0	C	64-66.9
1.7	C-	60-63.9
1.3	D+	55-59.9
1.0	D	50-54.9
0.0	F	0-49.9

Land Acknowledgement

We respectfully acknowledge that Keyano College is located on Treaty 8 territory, the traditional & contemporary meeting grounds and gathering places of the Denesuline, Cree and Métis Peoples of this region. Our name, Keyano (kiyânaw in nêhiyawêwin - Cree language), translates to “we, us, our” and speaks to the connection we have as a community and our commitment to being in right relationships with the First Peoples of these lands.

Every effort has been made to ensure that information in this course outline is accurate at the time of publication. Keyano College reserves the right to change courses if it becomes necessary so that course content remains relevant. In such cases, the instructor will give the students clear and timely notice of the changes.

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