

BIOCH 200, Introduction to Biochemistry

3 credits, 3 hours lecture per week per week

Course Description

An introduction to the fundamental principles of biochemistry. Protein structure and function; structure of nucleotides and nucleic acids; structure and function of biological membranes; metabolism of carbohydrates, lipids, and nitrogen; the regulation and integration of cellular metabolism; and bioenergetics.

Pre and Co-requisites

Prerequisites: CHEM 101 and CHEM 161 or CHEM 261

Course Learning Outcomes (CLOs)

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

CLO1 Describe the chemistry of proteins, carbohydrates, lipids and nucleic acids.

CLO2 Explain the mechanisms of enzymatic catalysis.

CLO3 Discuss the fundamental principles of key metabolic pathways.

CLO4 Integrate biochemical principles into other areas of the life sciences.

Evaluation

Assessment Type	Percentage
Tests & Assignments	50%
Final Examination	50%

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.

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Course Outline Review Date: Dec 2025