

BIOL 108, Introduction to Biodiversity

3 credits, 3 hours lecture, 3 hours lab per week

Course Description

Our planet supports a remarkable diversity of life. This course will discuss the history of life on earth, the evolutionary processes that gave rise to the biodiversity of earth, and how the relationships among organisms are reflected in their classification. Principles that unite all living things as well as unique adaptations that characterize major lineages will be discussed using examples from the three Domains of life. Laboratory exercises will investigate the diversity of biological form and function, and introduce students to scientific methodology, data collection and scientific writing.

Pre and Co-requisites

BIOL 030

Course Learning Outcomes (CLOs)

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

- CLO1 Explain basic principles of ecology, evolution, and Mendelian genetics, with a focus on the origin and diversity of life.
- CLO2 Use current phylogenetic and taxonomic nomenclature to describe the diversity of life on earth and explain how evolutionary history is reflected in the nomenclature of organisms, including reference to major evolutionary innovations.
- CLO3 Use scientific inquiry to ask and answer questions about the world around them. This includes understanding the strengths and limitations of scientific inquiry and recognizing common mis-uses/misunderstandings.

Evaluation

Assessment Type	Weighing
Lab Assignments	15%
Midterm Exam	20%
Lab Exam	25%
Final Exam	40%
Total	100%

Course Completion Requirements

Minimum passing mark of 50% 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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