BIOL 1020
Introductory Biology I: Cells, Genetics, and Evolution; Summer 2023

Dalhousie University is located in Mi'kma'ki, the ancestral and unceded territory of the Mi'kmaq. We are all Treaty people. We acknowledge the histories, contributions, and legacies of the African Nova Scotian people and communities who have been here for over 400 years.

Instructor:
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Course Delivery: online; asynchronous with synchronous Help Sessions and on-campus exams

Help Sessions: Tuesdays via Collaborate Ultra in Brightspace, various times (posted in Brightspace Calendar); other times by appointment and To Be Announced. Help Sessions are non-mandatory and not recorded.

Lectures: recorded lectures posted in Brightspace

Laboratories: conducted online / at home (six labs in total)

Welcome to the Course!

BIOL 1020 introduces you to the language, concepts and practice of biology. This course deals with structures and processes that are common to all organisms, from ancient types of bacteria to humans and seed-bearing plants. Topics include cell structure and function, energy production, cell division, mitosis and meiosis, Mendelian genetics, chromosomes and heredity, DNA structure and replication, transcription and translation, DNA technology, evolution, systematics and phylogeny, and origins of prokaryotic and eukaryotic diversity. The course is appropriate for students planning to major in biology and marine biology, in which case BIOL 1021 (or BIOL 1011) should also be taken. It is also appropriate for non-majors wishing to gain an understanding of the science underlying topical issues such as cloning, genetic engineering, cancer, and AIDS.

Prerequisites. Although high school chemistry and biology are recommended, there are no prerequisites for this course, nor is this course a prerequisite for BIOL 1021 (online) or BIOL 1011 (face-to-face). **Exclusions.** BIOL 1010, SCIE 15XX, BIOA 1002.

Getting Started. The course is available on the first day of term; all you need to get started is an activated NetID. The first lesson is an Orientation, which presents a tour of the course structure and gives you the opportunity to try out Brightspace's tools. For the technical requirements related to the course, please visit the BIOL 1020/21 public information site.

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