



# Biology 20

## Course Outline 2023-2024

Biology 20 is offered as an **independent learning** course at the Learning Centres. Students can optimize their learning experience through in-person interactions, Google Meets, phone calls, texts, and email communication with their teacher. Throughout the duration of the course, teachers will collaborate with students to formulate a personalized timeline for their academic journey. This tailored approach to scheduling aims to accommodate each student's unique learning pace, goals, and commitments, fostering an environment of flexibility and empowerment.

### Accessing Content and Required Course Work

Students will complete the course by working through modules. Modules are comprised of lessons which include various resources that allow the student to actively engage in the learning process. Course content and resources are provided online through the **Biology 20 Google Site** and **Google Classroom**. Before you ask for help on the assignment, be sure to review all available resources including the practice problems on the course Google Site. Students require their unique first name.last name@edu.sturgeon.ab.ca account for course completion. A calculator is required for this course.

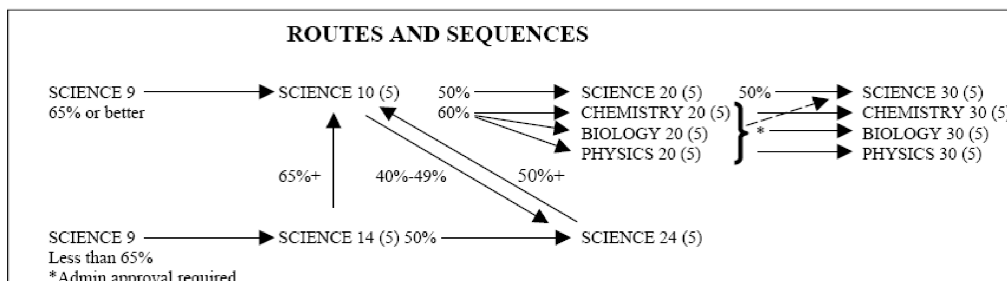
### Progression Through Course Sequences

Successful completion of Science 10. There are no prerequisites for mature students. A mature student, for Alberta High School Diploma purposes, is one who as of September 1 of the current school year, is 19 years of age or older; or the holder of a previously-awarded high school diploma from the province of Alberta; or an equivalent high school diploma from a jurisdiction acceptable to the Minister.

### Unit Topics and Evaluation

Biology 20 has 4 units.

Unit A: Energy and Matter	Module 1: Energy Flow and the Cycling of Matter	Unit A Exam
---------------------------	---	-------------





Exchange in the Biosphere	Module 2: Biosphere Equilibrium and the Impact of Humans	
Unit B: Ecosystems and Population Change	Module 3: Ecosystems and Their Diversity	Unit B Exam
	Module 4: Mechanisms of Population Change	
Unit C: Photosynthesis and Cellular Respiration	Module 5: Photosynthesis and Cellular Respiration	Unit C Exam
Unit D: Human Systems	Module 6: The Motor System and Homeostasis	Unit D1 Exam
	Module 7: The Digestive and Respiratory Systems	
	Module 8: Circulation, Immunity and Excretion	Unit D2 Exam

A schedule of module due dates will be set up with your teacher as part of your registration. Timelines vary from student to student, depending on when you start the course and how well you grasp the material presented. Keep in mind that in a typical high school classroom, students receive approximately 80 minutes of class time everyday for an entire semester.

Assessment Component	Overall Weighting
Module Assignments (8)	35%
Unit Exams (5)	35%
Final Exam	30%

Study Sheet
In addition to their formula sheet, students are permitted access to a single-sided, 8 ½ by 11 STUDY SHEET for each exam and the final exam.

Marks can be viewed on PowerSchool. Pay attention to comments included with your marks. This could mean there are things that your teacher would like to review with you before finalizing the mark on the assignment. Take the time to come see your teacher and discuss what must be completed or redone. Note: due to course deadlines, corrections will need to be completed in a timely manner as determined by you and your teacher.

**STURGEON  
LEARNING  
CENTRE**



**MORINVILLE  
LEARNING  
CENTRE**

MLC: Inside Frank Robinson Centre  
SLC: 5028 49 Street Gibbons  
Phone: 780-939-4341 ext 1255/1626  
[www.sturgeonlearning.ca](http://www.sturgeonlearning.ca)

## Additional Information and

### Expectations

All students and staff are expected to treat each other with respect. For more information, please refer to our website: [www.sturgeonlearning.ca](http://www.sturgeonlearning.ca).

