



DEPARTMENT OF ACADEMIC UPGRADING

COURSE OUTLINE – Fall 2021

BI0120 (A2): Biology Grade 11 Equivalent – 5 (4-0-2) 90 Hours for 15 weeks

Grande Prairie Regional College respectfully acknowledges that we are located on Treaty 8 territory, the traditional homeland and gathering place for many diverse Indigenous peoples. We are honoured to be on the ancestral lands of the Cree, Dene/Beaver and Métis, whose histories, languages, and cultures continue to influence our vibrant community. We are grateful to have the opportunity to work, learn, and live on this land.

INSTRUCTOR:	Nicoletta Harabor	PHONE:	780-539-2794
OFFICE:	J222	E-MAIL:	NHarabor@gprc.ab.ca
OFFICE HOURS:	As posted on my office door.		

CALENDAR DESCRIPTION: The major concepts in this course include human systems (digestion; respiration; circulation; immune; excretory and motor systems); energy and matter exchange in the biosphere; population change; photosynthesis and cellular respiration.

PREREQUISITE(S)/COREQUISITE: SC0110 (Science 10); EN0110 (English10-1 or 10-2); MA0110 (Math 10C) or MA0113 (Math 10-3). A Student may register in BI0120 if the student has achieved a mark of 60% or better in Alberta Education Science 10 within the previous five years or consent of the instructor.

REQUIRED TEXT/RESOURCE MATERIALS: Inquiry into Biology-McGraw-Hill Ryerson. You must also print the lab manual which will be available on D2L.

DELIVERY MODE(S): Classroom instruction and lab. Use of D2L required.

COURSE OBJECTIVES:

Detailed course objectives are found in the course syllabus that will be provided to you.

The course is divided into 4 units:

Unit 1: The Circulatory and Respiratory Systems

Unit 2: Digestive and Excretory Systems

Unit 3: Ecology

Unit 4: Photosynthesis and Cellular Respiration

LEARNING OUTCOMES: As stated by Alberta Education, upon successful completion of this course the student will be able to:

- Explain the constant flow of energy through the biosphere and ecosystems
- Explain the cycling of matter through the biosphere
- Explain the balance of energy and matter exchange in the biosphere, as an open system, and explain how this maintains equilibrium
- Explain that the biosphere is composed of ecosystems, each with distinctive biotic and abiotic characteristics
- Explain the mechanisms involved in the change of populations over time
- Relate photosynthesis to storage of energy in organic compounds
- Explain the role of cellular respiration in releasing potential energy from organic compounds
- Explain how the human digestive and respiratory systems exchange energy and matter with the environment
- Explain the role of the circulatory and defense systems in maintaining an internal equilibrium
- Explain the role of the excretory system in maintaining an internal equilibrium in humans through the exchange of energy and matter with the environment
- Explain the role of the motor system in the function of other body systems

TRANSFERABILITY:

Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at the Alberta Transfer Guide main page

<http://www.transferalberta.ca>.

**** Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability**

EVALUATIONS:

Unit Tests..... 30%
Labs, Quizzes, Assignments.....15%
Midterm (Cover Units 1&2).....25%
Final (Covers Units 3&4).....30%

All tests and exams **MUST** be written at the scheduled times. A missed test (exam) will result in a score of **ZERO** on that test (exam). In order to defer an exam due to illness you will require a medical note. The final exam is 3 hours long and is scheduled by the registrars' office during GPRC Exam weeks.

GRADING CRITERIA: Please note that most universities will not accept your course for transfer credit **IF** your grade is **less than C-**.

Alpha Grade	4-point Equivalent	Percentage Guidelines		Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	90-100		C+	2.3	67-69
A	4.0	85-89		C	2.0	63-66
A-	3.7	80-84		C-	1.7	60-62
B+	3.3	77-79		D+	1.3	55-59
B	3.0	73-76		D	1.0	50-54
B-	2.7	70-72		F	0.0	00-49

COURSE SCHEDULE/TENTATIVE TIMELINE:

Tentative test and exam dates:

Unit Exam 1	October 4
Unit Exam 2	November 1
Midterm	November 5
Unit Exam 3	November 26
Unit Exam 4	December 3
Final Exam	December 11-20

STUDENT RESPONSIBILITIES:

Refer to the College Policy on Student Rights and Responsibilities at
www.gprc.ab.ca/d/STUDENTRIGHTSRESPONSIBILITIES

If you are late for a lab, you might not be permitted to do the lab as important safety concerns are always addressed at the beginning of each lab period. The lab is certified as a Level 2 biohazard facility and the regulations that apply will be given to you during your first lab. If you miss a lab, you will not have the opportunity for a make-up lab. You automatically receive a grade of 0 for that lab.

Attendance: If you miss 10 or more classes (including labs) you may be debarred from the final exam.

Lateness: Lateness will not be tolerated.

Cell Phone Use: Turn them off during lab time.

Labs and assignments: These are due on the day announced in class, lab or as posted on D2L. If you submit your assignment or lab late you may be docked 20% per day late. **A late assignment or lab will not be accepted once the assignment or lab has been returned to other students.**

Tests and Exams: Use of any electronic communication devices during Tests and Exams is not permitted.

STATEMENT ON PLAGIARISM AND CHEATING:

Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, refer to the Student Conduct section of the College Calendar at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at <https://www.gprc.ab.ca/about/administration/policies>