



**DEPARTMENT OF ACADEMIC UPGRADING**

**COURSE OUTLINE – FALL 2018**

**BI0120 (B2): Biology Grade 11 Equivalent – 5 (4-0-2) 90 Hours  
for 15 weeks**

**INSTRUCTOR:** Nicoletta Harabor                      **PHONE:** 780-539-2794  
**OFFICE:** J222    **E-MAIL:** NHarabor@gprc.ab.ca  
**OFFICE HOURS:** Wednesdays and Thursdays 10:00 to 11:20 am and Fridays 10:00 to 10:50 am  
in Room B302

**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 (English 10-1 or 10-2) or EN0120 placement; MA0110 (Math 10C) or MA0113 (Math 10-3) or MA0120 Placement. See Also Academic Upgrading Science Requirements.

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

**DELIVERY MODE(S):** Classroom instruction and lab. Use of Moodle 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:

**\*Warning:** Although we strive to make the transferability information in this document up-to-date and accurate, **the student has the final responsibility for ensuring the transferability of this course to Alberta Colleges and Universities.** Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at Alberta Transfer Guide main page <http://www.transferalberta.ca> or, if you do not want to navigate through few links, at <http://alis.alberta.ca/ps/tsp/ta/tbi/onlineSearch.html?SearchMode=S&step=2>

**\*\* 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.....	20%
Moodle Quizzes.....	5%
Labs, Quizzes, Assignments.....	25%
Midterm (Cover Units 1&2).....	25%
Final (Covers Units 3&4).....	25%

All tests and exams **MUST** be written at the scheduled times unless **PRIOR** arrangements have been made with the instructor. 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:**

Biology 0120 consists of four units:

Unit 1: The Circulatory and Respiratory Systems (15 days)

Unit 2: The Digestive and Excretory Systems (14 days)

Midterm (Units 1 + 2)

Unit 3: Ecology (14 days)

Unit 4: Photosynthesis and Cellular Respiration (12 days)

Final Exam (Units 3 + 4)

Tentative test and exam dates:

October 05

November 01

November 05

November 26

December 5

December 10-19

### **STUDENT RESPONSIBILITIES:STUDENT RESPONSIBILITIES:**

Refer to the College Policy on Student Rights and Responsibilities at

[www.gprc.ab.ca/d/STUDENTRIGHTSRESPONSIBILITIES](http://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 class time.

**Labs and assignments:** These are due on the day announced in class, lab or as posted on Moodle. If you submit your assignment or lab late you may be docked 10% 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 Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at <http://www.gprc.ab.ca/about/administration/policies/>