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# **DEPARTMENT OF ACADEMIC UPGRADING**

**COURSE OUTLINE – Winter 2019**

**Bl0120 (A3):** **Biology Grade 11 Equivalent – 5 (4-0-2) 90 Hours**

**for 15 weeks**

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| **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) 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……………………... 30%

Labs, Quizzes……………...…...15%

Midterm (Cover Units 1&2)……25%

Final (Covers Units 3&4)………30%

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-**.

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| **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 February 13

Midterm March 20

Unit Exam 2 April 3

Final Exam April 15-27

**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 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 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/