



DEPARTMENT OF ACADEMIC UPGRADING

COURSE OUTLINE – FALL 2017

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

INSTRUCTOR: Beatrice Amar

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OFFICE: J208

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OFFICE HOURS: Mondays 3.00-4.30 p.m. and Wednesdays 10:00-11:30 a.m. or by appointment.

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:

Textbook: Inquiry into Biology-McGraw-Hill Ryerson.

You must also print the lab manual which will be available on Moodle.

DELIVERY MODE(S): Classroom instruction in room B208 and lab (J130). Use of Moodle required.

COURSE OBJECTIVES:

This course introduces students to:

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 a result of taking this course, students will gain abilities 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: N/A

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). Only in very specific cases may student be given an opportunity to make up a missed exam (student will be presented with a different version of the exam). Doctor, lawyer or police documentation may be required. 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	95-100	C+	2.3	66-69
A	4.0	90-94	C	2.0	63-65

A-	3.7	85-89	C-	1.7	60-62
B+	3.3	80-84	D+	1.3	54-59
B	3.0	75-79	D	1.0	50-54
B-	2.7	70-74	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:

September 29

October 26

November 6

November 20

December 1

December 7-19

STUDENT RESPONSIBILITIES:

Refer to the College Policy on Student Rights and Responsibilities at

www.gprc.ab.ca/d/STUDENTRIGHTSRESPONSIBILITIES

If you are absent from a test or exam, you **MUST let me know (by email or voice message) the day of the missed test that you will not be writing the test.** Also you might be asked to provide a doctor's certificate that explains your absence for that particular time. Only then will an alternate time be scheduled for you to write a **Different** test or exam. Quizzes will be written in class or labs; no opportunity will be provided for missed quizzes and thus a missed quiz will result in an automatic 0.

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 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>

Instructors reserve the right to use electronic plagiarism detection services on written assignments.

Instructors also reserve the right to ban the use of any form of electronics (cell phones, Blackberries, iPods, tablets, scanning pens, electronic dictionaries, etc.) during class and during exams.

**Note: all Academic and Administrative policies are available on the same page.