



DEPARTMENT OF ACADEMIC UPGRADING

COURSE OUTLINE – WINTER 2012

BI0120A2 5(4-0-2) HS 90 Hours

Biology Grade 11 Equivalent

INSTRUCTOR: Nancy Campbell

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OFFICE

HOURS:

Drop ins are welcome; my class schedule is on my door. I am often in my office with my door closed. Please knock. Alternately, you may email me for an appointment time that is suitable for both of us.

PREREQUISITE(S)/COREQUISITE: SC0110 (or BI0110 and CH0110) or Science 10; EN0110 (or EN0120 placement); and MA0100 (or MA0110 placement).

REQUIRED TEXT/RESOURCE MATERIALS: Inquiry into Biology, McGraw-Hill Ryerson. This is also the textbook for BI0130.

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.

CREDIT/CONTACT HOURS: 5(4-0-2) 90 Hours

These numbers indicate the course is a five credit course. There are 4 hours of classroom instruction and 2 hours in the lab per week for a total of 90 hours for the term.

Start Date: January 5, 2012 **End Date:** April 12, 2012 (The final exam is scheduled after this date)

Lecture: MTWR 8:30 – 9:20

Lab: Friday: 8:00 – 9:50 (J130)

DELIVERY MODE(S): Lecture, Computer Aided Instruction (Moodle), and Labs.

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: 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

- 1) explain how the human digestive and respiratory systems exchange energy and matter with the environment
- 2) explain the role of the circulatory and defense systems in maintaining an internal equilibrium
- 3) explain the role of the excretory system in maintaining an internal equilibrium in humans through the exchange of energy and matter with the environment
- 4) explain the constant flow of energy through the biosphere and ecosystems
- 5) explain the cycling of matter through the biosphere
- 6) explain the balance of energy and matter exchange in the biosphere, as an open system, and explain how this maintains equilibrium.
- 7) explore the diversity and interconnections of living world
- 8) relate photosynthesis to storage of energy in organic compounds
- 9) explain the role of cellular respiration in releasing potential energy from organic compounds.

TRANSFERABILITY:

This course is equivalent to the Alberta Learning Biology 20 curriculum, and is listed as such in the Alberta Transfer Guide.

GRADING CRITERIA:

Unit 1 Test	10%
Unit 2 Test	10%
Unit 3 Test	10%
Unit 4 Test	5%
Quizzes	5%
Labs and Assignments...	20%
Midterm	20%
Final	20%

EXAMINATIONS:

A **midterm exam** will be written at the end of Unit 2. A **final exam** will be scheduled during the final exam time.

Electronic devices, other than simple calculators, are not allowed into tests or exams.

The following chart will be used to convert your % score to an Alpha grade.

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
Alpha Grade	4-point Equivalent	Percentage Guidelines	Designation
A⁺	4.0	90 – 100	EXCELLENT
A	4.0	85 – 89	
A⁻	3.7	80 – 84	FIRST CLASS STANDING
B⁺	3.3	77 – 79	
B	3.0	73 – 76	GOOD
B⁻	2.7	70 – 72	
C⁺	2.3	67 – 69	SATISFACTORY
C	2.0	63 – 66	
C⁻	1.7	60 – 62	
D⁺	1.3	55 – 59	MINIMAL PASS
D	1.0	50 – 54	
F	0.0	0 – 49	FAIL
WF	0.0	0	FAIL, withdrawal after the deadline

STUDENT RESPONSIBILITIES:

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 www.gprc.ab.ca/about/administration/policies/**

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 on the day announced in class. If you miss a quiz you will automatically get a zero as there is no opportunity to make up missed quizzes.

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 biohazard zone 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 or other Electronic Equipment Use

Sending or receiving electronic messages during class or lab time will not be tolerated.

Labs and assignments

These are due on the day announced in class or 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 the students,

Tests and Exams

Please do not use any electronic communication devices during classes, labs, or tests.

STATEMENT ON PLAGIARISM AND CHEATING:

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 www.gprc.ab.ca/about/administration/policies/**

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

The instructor reserves the right to use electronic plagiarism detection services. Although you work together in pairs in the lab, you are to write separate reports that are your own work. Electronic devices, other than simple calculators, are not allowed into tests or exams.

COURSE SCHEDULE/TENTATIVE TIMELINE:

(Days are approximate.)

Introduction:	2 days
Unit 1:	15 days
Unit 2:	14 days
Unit 3:	18 days
Unit 4:	10 days