

## Grande Prairie Regional College

### Biology 0110 (Biology component of Science 10)

#### Course Outline for the 2005 – 2006 Academic Year

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**Instructor:** Nancy Campbell

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**Office Hours:** Mon and Wed: 2:30 – 4:00/ Tues 11:00 – 12:00 and 2:30 – 3:00

**Prerequisite:** SC0100 and EN0100

**Note:** If you plan on taking BI0120, you will need to take CH0110 as a prerequisite.

#### Course Description:

Energy from the sun, properties of water, exchange of energy and matter between living systems and their environment are investigated. Cell structure and function, diffusion, osmosis, and active transport are analyzed. Diversity of life is explored.

#### Course Intent:

This course consists of many of the learning objectives from the biology portion of the Alberta Learning Science 10 curriculum. Modifications have been made to the content to address the needs of adult learners.

#### Course Goals:

The BI0110 course has been designed to provide you with an introduction to the world of living organisms. It incorporates learning opportunities for you in both the biology and computer labs. There are several biological themes explored in this course including: scientific method; microscopy; cell structure and function; membrane structure and function; energy; and diversity of life.

<b>Unit 1:</b> Introduction to Science and Biology	<b>Unit 4:</b> The Cell as an Open System
<b>Unit 2:</b> Introduction to Microscopy	<b>Unit 5:</b> Energy and Living Systems
<b>Unit 3:</b> The Cell is the Basic Unit of Living Systems	<b>Unit 6:</b> The Classification of the Diversity of Life

#### Delivery Mode:

BI0110 is delivered in a classroom and is lecture based. Furthermore, the course has a lab component. The course is supplemented with resource material offered on Blackboard, a computerized course management system.

**Session Details:**

September 6 – October 21

(Note: October 5<sup>th</sup> - Last day for withdrawing with permission from, or changing registration status from audit to credit or credit to audit.)

**Course Schedule:**

Dates for tests, labs, and assignments will be announced in class and entered into the calendar in Blackboard.

**Lecture Schedule:** Monday, Tuesday, Wednesday, Thursday, and Friday: 1:00pm – 2:20pm.

**Textbook:** Krogh, Biology: A Guide to the Natural World, third edition

This textbook is also used for BI0120 and BI0130.

**Supplies:** binder, lined paper, unlined white paper, pencil, calculator, ruler (metric), stapler, lab coat (optional)

**Computer:**

Many resources, including the lab manual for this course, are accessed through Blackboard, a computer-based course management system. You may access Blackboard via any computer with an Internet link. If you do not have a personal computer, you may sign in to use the computers in A205 during daytime hours, or in the library during evening and weekend hours.

**Attendance:**

Regular attendance is required and is essential for passing the course. If you must be absent, please contact me for assistance in acquiring missed material. As per Department Policy, if you miss more than 5 classes, you may be asked to withdraw from the class. Please be on time for class. Three late classes will equal one class absent. When you are late, you disturb the rest of the class and you miss valuable information presented at the beginning of each class. 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. **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.**

<b>Evaluation:</b>	Unit Tests.....	60%
	Labs .....	15%
	Assignments.....	25%

**Tests:** At the end of each unit is a unit test. Each test is worth 10%.

The following is the Department policy for missed tests:

1. In order to be given the opportunity to write a test after the due date, the student must phone the instructor on the morning of the absence and be given permission to write the test at a later date. If the instructor is unavailable, the student should leave his/her phone number or the number where the instructor can reach the student. If permission is given, the student will be given an alternate test.
2. If permission to write a late test is given, the late test will be docked a minimum of 10 percentage points per day of lateness. (This means 10 or more points off the mark the student achieves on the test.)

#### **Assignments and Lab Reports:**

All labs are weighted equally.  
Final assignment grade is calculated using raw scores.

Assignments and lab reports are due on the dates announced in class. Assignments and lab reports are due at the **beginning of the class**. A **penalty of 10%** per day will be imposed for late submissions. Once a set of labs or assignments has been returned to students, you will not be permitted to submit your late work for grading. If you miss a lab, you will not be able to make it up, as most labs require group work. Your assignments and lab reports **must be your own work**. That is, I do not want to see identical sentences, diagrams etc. **Students who submit work that is not their own will be penalized according to the College Policy on Cheating and Plagiarism.**

**Academic Upgrading Grade Conversion Chart:**

As approved: May 25, 2004

<i>Alpha Grade</i>	<i>4-Point Equivalent</i>	<i>Percentage Guidelines</i>	<b>Designation</b>
A+	4.0	90 - 100	<i>Excellent</i>
A	4.0	85 - 89	
A-	3.7	80 - 84	<i>First Class Standing</i>
B+	3.3	76 - 79	
B	3.0	73 - 75	<i>Good</i>
B-	2.7	70 - 72	
C+	2.3	67 - 69	<i>Satisfactory</i>
C	2.0	64 - 66	
C-	1.7	60 - 63	
D+	1.3	55 - 59	<i>Minimal Pass</i>
D	1.0	50 - 54	
F	0.0	0 - 49	<i>Fail</i>

For your transcript, your final calculated % grade for the course will be converted to a letter grade.

*Please review Grande Prairie Regional College's calendar, which outlines student rights and responsibilities.*