



## DEPARTMENT OF ACADEMIC UPGRADING

### COURSE OUTLINE – FALL 2011

#### BI0130A2 5 (5-0-1.5) HS 95 Hours

#### Biology Grade 12 Equivalent

**INSTRUCTOR:** Nancy Campbell

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**OFFICE:** C302

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#### **OFFICE**

#### **HOURS:**

Drop-ins are welcome or please email me for an appointment time that is suitable for both of us.

**PREREQUISITE(S)/COREQUISITE:** BI0120 or Science 30, EN0120 (or EN0130 placement), and MA0110 (or MA0120 placement)

**REQUIRED TEXT/RESOURCE MATERIALS:** Inquiry into Biology, McGraw-Hill Ryerson

**CALENDAR DESCRIPTION:** The concepts in this course include nervous and endocrine systems; cell division; genetics and molecular biology; populations and community dynamics.

**CREDIT/CONTACT HOURS:** 5(5-0-1.5) 95 Hours

These numbers indicate the course is a five credit course. There are 5 hours of classroom instruction and 1.5 hours in the lab per week (averaged over the term) for a total of 95 hours for the term.

**Start Date:** September 8, 2011 **End Date:** December 9, 2011 (Final Exam is scheduled after this date)

**Lecture:** Monday and Wednesday 8:30 – 9:50; Tuesday and Friday 8:30 – 9:20

**Lab:** Thursday 8:00 – 9:50 or 2:30- 4:20

**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: The Nervous and Endocrine Systems

Unit 2: Reproduction and Development

Unit 3: Cell Division, Genetics, and Molecular Biology

Unit 4: Populations and Community Dynamics

**Learning Outcomes:**

As stated by Alberta Education, upon successful completion of this course the student will be able to

- 1) explain how the nervous system controls physiological processes
- 2) explain how the endocrine system contributes to homeostasis.
- 3) explain how survival of the human species is ensured through reproduction
- 4) explain how human reproduction is regulated by chemical control systems
- 5) explain how cell differentiation and development in the human organism are regulated by a combination of genetic, endocrine and environmental factors.
- 6) describe the processes of mitosis and meiosis
- 7) explain the basic rules and processes associated with the transmission of genetic characteristics
- 8) explain classical genetics at the molecular level.
- 9) describe a community as a composite of populations in which individuals contribute to a gene pool that can change over time
- 10) explain the interaction of individuals in a population with one another and with members of other populations
- 11) explain, in quantitative terms, the change in populations over time.

**TRANSFERABILITY:**

This course is equivalent to the Alberta Learning Biology 30 curriculum, and is listed as such in the Alberta Transfer Guide.

## GRADING CRITERIA:

Unit 1 Test	10%
Unit 2 Test	5%
Unit 3 Test	10%
Unit 4 Test	5%
Quizzes	5%
Assignments	5%
Labs	10%
Midterm	25 %
Final	25%

## 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.

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

## **STUDENT RESPONSIBILITIES:**

Please see pages 47 – 50 in the College calendar.

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 the day announced in class; 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 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 5 classes, you will receive an email from me concerning your 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 will 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. Only simple calculators are allowed for the Unit 4 test and Final Exam.

## **STATEMENT ON PLAGIARISM AND CHEATING:**

Please refer to pages 49-50 of the College calendar regarding plagiarism, cheating and the resultant penalties. These are serious issues and will be dealt with severely.

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. If you are required to give a definition, that definition will be in your own words.

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

## **COURSE SCHEDULE/TENTATIVE TIMELINE:**

Dates are approximate.

Unit 1: 4 weeks

Unit 2: 2 weeks

Unit 3: 5 weeks

Unit 4: 2 weeks