

**CAMOSUN COLLEGE**  
**Department of Biology**  
**Biology 230: Introduction to Cell Biology**  
**Course Information – Winter 2004**

**Instructor:** Christine Baugh

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**Office Telephone:** (250) 370 - 3430; voice messages may be left at this number

**Reference Text:** Optional; Strongly Recommended

Becker, W.M., Reece, J.B. and Poenie, M.F. 2003 *The World of the Cell*; 5th Edition  
Benjamin Cummings

**Lab Manual:** Required

Biology Department (2003/ 2004) *Biology 230 Laboratory Manual*, Camosun College

**Lecture Outlines:** Required:

Purchase a 'Demand Publishing Coupon' in the Bookstore  
electronic copies will be posted on my web page at the end of that lecture section.

**Course Evaluation:**

**Lecture Component; 70% of the course mark.**

Assignments/ Quizzes 5% Date: TBA

Material Covered: TBA

In Class Examination # 1 15% Date: February 4; all sections

Material Covered: Lecture material from the beginning of week 1 through to the end of week 4.

In Class Examination # 2 15% Date: March 10; all sections

Material Covered: Lecture material from the beginning of week 5 through to the end of week 9.

Final Examination 35% Date: To be scheduled during the final exam period.

Material Covered: The final exam will be comprehensive, however emphasis will be placed on material covered after the 2<sup>nd</sup> in class examination.

**Laboratory Component; 30% of the course mark.**

Lab Exam # 1 5%\* Date: February 16; all sections

Material Covered: Microscopy & Cell Staining; Animal Cell Culture

Lab Exam # 2 10%\* Date: April 5; all sections

Material Covered: Cockroach Immune System; Cockroach Protein Analysis; Signal Transduction

Lab Reports/Assignments 15%\*

\* Lab marks may be reassigned, depending on the outcomes of the lab experiments.

**Exam Return Policy:**

Term lecture and lab exams will be returned and taken up with the class. The exams will then be collected by the instructor and retained for a period of one year. Students are welcome to review these exams in the instructor's office during regular office hours.

**Grading System:**

The School of Arts and Science have adopted the following letter grade and percentage scale:

A <sup>+</sup> = 95 -100%	B <sup>+</sup> = 80 – 84%	C <sup>+</sup> = 65 - 69%	D = 50 – 59%
A = 90 - 94%	B = 75 – 79%	C = 60 - 64%	F = 0 – 49%
A <sup>-</sup> = 85 - 89%	B <sup>-</sup> = 70 –74%		

**Laboratory Attendance:**

Attendance at the entire laboratory session is mandatory. If, for reasons of illness or family crisis, you are unable to attend a lab, the instructor must be notified. Such notification must occur in advance if possible. A penalty of 3% will be deducted for each unexcused absence from the lab. If a lab requires a written report, students who have not attended will not be given credit for that report; i.e. you may not use another student's data to write a report for credit.

**Late Assignments:**

Assignments and reports must be handed in at the beginning of the class/ lab on the due date. Late assignments and reports will be accepted, but they will be assessed a penalty of 15% of the value per day late; weekends count as two days. No assignments or reports will be accepted after the other student's assignments or reports have been returned.

**Plagiarism:**

All written material must be done individually. This includes lab data and graphs. Should two very similar reports be received, the mark will be either be divided between the students, or both students will forfeit their mark for that report. Plagiarism, including the copying of any part of assignments, laboratory reports and essays is a serious offense and is considered to be an academic misconduct.

**Cheating:**

A student caught cheating on an exam will forfeit that exam and perhaps the course. Cheating is a serious offense and is considered to be an academic misconduct.

**Missed Exams:**

All in class lecture and lab exams and the final lecture exam must be written at the scheduled time. Only in emergency circumstances, illness or family crisis, may a student write an exam before or after the scheduled time. It is the student's responsibility to ensure that the instructor is notified if an exam must be missed. Such notification must occur in advance if possible or, at the latest, the day of the exam. The student will be required to provide verification of the emergency circumstance (i.e. medical certificate) in order to write a make-up exam.

**\* HOLIDAYS OR SCHEDULED FLIGHTS ARE NOT CONSIDERED TO BE EMERGENCIES \***

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**Course Schedule – Winter 2004**

This is a tentative outline of the weekly activities of the class. It is subject to modification as the need arises.

<b>Week</b>	<b>Date</b>	<b>Lecture Topic</b>	<b>Text Chapter</b>	<b>Laboratory Exercise</b>
1	Jan. 5 – 9	Macromolecules	3	Introduction to the Lab & Equipment
2	Jan. 12 – 16	Macromolecules	3	Microscopy and Cell Staining
3	Jan. 19 – 23	Membrane Structure	7	Animal Cell Culture; Week 1
4	Jan. 26 – 30	Membrane Transport	8	Animal Cell Culture; Week 2
5	Feb. 2 – 6 <b>Feb. 4</b>	ECM; Cell Adhesion; Cell Junctions <b>Lecture Exam # 1</b>	11	Animal Cell Culture; Week 3
6	Feb. 9 – 13 <b>Feb. 12 &amp; 13</b>	ECM; Cell Adhesion; Cell Junctions <b>Reading Break</b>	11	Catch Up and Review
7	Feb. 16 – 20 <b>Feb. 16</b>	DNA and the Nucleus	16	Inject Cockroaches; Week 1 <b>Lab Exam # 1</b>
8	Feb. 23 – 27	DNA Replication and The Cell Cycle	17	Cockroach Immune System; Week 2
9	Mar. 1 – 5	DNA Replication and The Cell Cycle	17	Cockroach Protein Analysis; Week 3
10	Mar. 8 – 12 <b>Mar. 10</b> <b>Mar. 8</b>	Transcription in the Eukaryotic Cell <b>Lecture Exam # 2</b> <b>Last Day to Withdraw</b>	19	Cockroach Protein Analysis; Week 4
11	Mar. 15 – 19	Translation & Protein Sorting Intracellular Compartments	20 12	Cockroach Protein Analysis; Week 5
12	Mar. 22 – 26	Intracellular Compartments Signal Transduction	12 10	Signal Transduction; Week 1
13	Mar. 29 - Apr. 2	Signal Transduction	10	Signal Transduction; Week 2
14	Apr. 5 – 8 <b>Apr. 5</b> <b>Apr. 9</b>	Cytoskeleton <b>Good Friday</b>	22	<b>Lab Exam #2</b>