

CAMOSUN COLLEGE
Department of Biology
Biology 230: Cell Structure and Function
Course Information –Fall 2002

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Course Materials

Reference Text: Optional; Strongly Recommended

Becker, W.M., Reece, J.B. and Poonie, M.F. 2000 *The World of the Cell*; 5th Edition
Benjamin Cummings

Lab Manual: Required

Camosun College Faculty (2002/ 2003) *Biology 230 Laboratory Manual*, Camosun College

Lecture Outlines: Required

Download from my web page. Hyperlink to Biol. 230; click on the lecture topic.
Hard copies are on reserve in the Biol. 230 file in the library.

Course Evaluation

Lecture Component; 70% of the course mark.

Assignments/ Quizzes 5% Date: TBA

Material Covered: TBA

In Class Examination # 1 15% Date: October 3; 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: November 7; 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 2nd in class examination.

Laboratory Component; 30% of the course mark.

Lab Exam # 1 5%* Date: October 15; all sections; during lecture

Material Covered: Microscopy & Cell Staining; Animal Cell Culture

Lab Exam # 2 10%* Date: December 2; all sections; during the last lab period

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 ⁺ = 95 -100%	B ⁺ = 80 – 84%	C ⁺ = 65 - 69%	D = 50 – 59%
A = 90 - 94%	B = 75 – 79%	C = 60 - 64%	F = 0 – 49%
A ⁻ = 85 - 89%	B ⁻ = 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. Students who miss one lab period will not be penalized. However, students who miss more than one lab during the semester will be assessed a penalty of 3% for each subsequent 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 lab 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. 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 - Fall 2001

Week	Date	Lecture Topic	Text Chapter	Laboratory Exercise
1	Sep. 2 Sep. 3 – 6	HOLIDAY (Labor Day) Macromolecules	3	No Lab – Holiday
2	Sep. 9 – 13	Macromolecules	3	Intro & Use of Lab Equipment Microscopy and Cell Staining
3	Sep. 16 – 20	Membrane Structure & Function	7	Animal Cell Culture; Week 1
4	Sep. 23 – 27	Membrane Transport	8	Animal Cell Culture; Week 2
5	Sep. 30 – Oct. 4 Oct. 3	Cell Junctions & Extracellular Matrix Lecture Exam # 1	11	Animal Cell Culture; Week 3 Inject Cockroaches Week 1
6	Oct. 7 – 11	Cell Junctions & Extracellular Matrix	11	Cockroach Immune System; Week 2
7	Oct. 14 Oct. 15 Oct. 15 – 18	HOLIDAY (Thanksgiving) Lab Exam #1 (During Lecture) DNA & the Nucleus	16	No Lab – Holiday
8	Oct. 21 – 25	DNA Replication & the Cell Cycle	17	Cockroach Protein Analysis; Week 3
9	Oct. 28 – Nov. 1	Regulation of the Cell Cycle Cancer; Apoptosis	17	Cockroach Protein Analysis; Week 4
10	Nov. 4 – 8 Nov. 5 Nov. 7	The Genetic Code & Transcription Last Day to Withdraw Lecture Exam # 2	19	Cockroach Protein Analysis; Week 5
11	Nov. 11 Nov. 12 – 15	HOLIDAY (Remembrance Day) Translation & Protein Sorting Intracellular Compartments	20 12	No Lab – Holiday
12	Nov. 18 – 22	Intracellular Compartments Signal Transduction	12 10	Signal Transduction; Week 1
13	Nov. 25 – 29	Signal Transduction	10	Signal Transduction; Week 2
14	Dec. 2 – 6 Dec. 2	Cytoskeleton	22	Lab Exam # 2