

CAMOSUN COLLEGE
School of Arts & Science
Department

BIOL 080 Inquiry into Life
Winter 2004 – Section 001A/001B

COURSE OUTLINE

1. Course Information

Course Description

This course is intended for the student interested in learning about the structure and function of the animal body. The major areas of study are cell biology, and human anatomy and physiology. This course provides Grade 12 biology equivalency.

Time and Location

Lecture: M/W/Th 3:30-4:20 in F238

Lab: Section 001 A: 2:30 – 3:45

Section 001 B: 3:45 – 5:20

all labs in F224

2. Instructor Information

Instructor: William C. Hulbert, *B.A., M.Sc., Ph.D.*

Office hours 12:30-1:30 M,Tu; 9:30-10:30 W,Th,F, and by appointment
Office location: F246

Phone: 370-**to be provided**
e-mail: hulbertw@camosun.bc.ca

3. Required Materials

- a) Mader, S., 2003. *Inquiry into Life*, 10th ed. McGraw-Hill.
- b) BIO 080 Lab Manual

Optional: Study Guide for *Inquiry into Life*

4. Course Content and Schedule

The following tentative schedule is subject to change if deemed necessary by the instructor.

| WK | DATE (week of) | LECTURE TOPICS | TEXT CHAP. | LAB # | LAB TOPICS |
|----|-------------------|---|-------------------|---------|--|
| 1 | Sept.6 | Introduction Basic Chemistry | 1, 2 | | ----- |
| 2 | Sept. 13 | Water & pH Organic Macromolecules | 2 | 1 | Safety & Metric Measurements |
| 3 | Sept. 20 | Cell Form & Function | 3 | 2 | Organic Macromolecules |
| 4 | Sept. 27 | Mid-term I Cell Membranes Diffusion/Osmosis | --- 4 | 4 | Microscopy & Cells |
| 5 | Oct. 4 | Enzymes | 6 | 5 | Diffusion/Osmosis |
| 6 | Oct. 11 | DNA & Protein Synthesis Cancer | 25 | | ----- |
| 7 | Oct. 18 | Human Organization | 11 | | LAB EXAM I |
| 8 | Oct. 25 | Mid-term II Digestive System | --- 12 | 7 | Enzymatic Hydrolysis of Macromolecules |
| 9 | Nov. 1 | Cardiovascular System | 13 | 3 | Molecular Basis of Inheritance |
| 10 | Nov. 8 | Respiratory System | 15 | 8 | Cardiovascular System |
| 11 | Nov. 15 | Excretory System | 16 | 9 | Scientific Method & Fitness |
| 12 | Nov. 22 | Mid-term III Nervous System | --- 17 | (6), 10 | Systems Overview: Human Anatomy Models |
| 13 | Nov. 29 | Reproductive System | 21 | | LAB EXAM II |
| 14 | Dec. 6 | Highlights of Immune, Sensory, Musculoskeletal, Endocrine Systems | (14,18, 19,20) | | ----- |

Assume all mid-terms to occur on Mondays, unless informed otherwise.

5. Basis of Student Assessment

| | |
|---------------------|-----|
| Assignments/quizzes | 10% |
| Exams: | |
| Midterm I | 10% |
| Midterm II | 10% |
| Midterm III | 10% |
| Lab Exam I | 10% |
| Lab Exam II | 10% |
| Final Exam | 40% |

Midterms as well as the lab exams, will be unit exams.
The final lecture exam will be cumulative.
Please bring a pen *and* pencil to all exams.

6. Grading System

The following percentage conversion to letter grade will be used:

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

ADDITIONAL INFORMATION

General:

Be sure that you are familiar with the General Department Policies, which are stated in the lab manual. A student conduct code will also be observed.

ACADEMIC CONDUCT POLICY

There is an Academic Conduct Policy. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section.

www.camosun.bc.ca/divisions/pres/policy/2-education/2-5.html

Please note: Plagiarism will not be tolerated in any form, and may result in "0".

No programmable devices are allowed in exams.

Each student is required to sign a Laboratory Safety Contract and give it to the instructor prior to commencing laboratory work in the course.

Attendance:

You are expected to attend all classes, and be on time. It is your responsibility to acquire *all* information given during a class missed, incl. notes, hand-outs, assignments, changed exam dates etc.

Missed exams or quizzes cannot be made up except in case of documented illness (doctor's note required). Lab attendance is *mandatory*.

Labs:

A **1% final grade penalty** applies to any unexcused absence from lab. Frequent lates will count as an absence. Should you miss roll call at the beginning of lab, please identify yourself to the instructor as "late" or you may remain marked "absent." You need to attend labs and lab exams during your assigned section (A or B). Switching between sections on a permanent or temporary basis requires instructor's permission. Lab assignments can only be handed in for labs actually attended.

It is *absolutely* necessary to read and mentally work through each exercise before coming to lab. Otherwise you may not be able to finish on time, annoy your lab partner, or flunk a pre-lab pop quiz. Please also come prepared with a pencil and a few sheets of unlined and graph paper, in case drawings are required.

Assignments:

Unless otherwise stated, all assignments are due at the *beginning* of the lab/class one week from the date that the assignment was given. There is a **20%/day late penalty**. The format is expected to be professional, i.e. a typed (if requested), clean copy. "Rough" drafts risk rejection and a subsequent late penalty. If the assignment is more than one page, separate pages *must be stapled*.

Study Habits:

You will probably find Biology 080 not very difficult, but surprisingly labor-intensive. Good (and regular!!) study habits are required to do well in this course. You should plan on a *minimum* of 6 hours outside of scheduled class time for the completion of assignments and for general studying. Joining a study group can help this make more fun.

Lecture notes in point form, will be available off the course web site. These should be used as a study guide, not as your sole source of information! You will need to write down additional key words for examples and explanations given during lecture. It is also recommended practice to transcribe these notes into a study-friendly format after each lecture, incorporating additional information from your textbook. Study these notes before the next class to prepare yourself for new material, which will often build on previously covered material.

Due to time constraints, not all details can be covered in lecture, and you may be held responsible for textbook material not specifically discussed in class. Please keep up with your readings, and take advantage of office hours if you need extra clarification and help, or simply would like to discuss a topic a little further.

LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College Calendar, Registrar's Office or the College web site at <http://www.camosun.bc.ca>