School of Arts & Science

BIOL 080 Inquiry into Life
SPRING 2008

COURSE OUTLINE

1. Information

Course Description

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

Prerequisites: English 10 or assessment.

Time and Location

Section	Lab Time	Class Time
001 A	**Tues/Fri 12:30-1:50 (F222)**	**Mon/Thu 11:30-1:20 (F210)** **Tues/Fri 11:30-12:20 (F210)**
001 B	**Tues/Fri 2:00-3:20 (F222)**	**(002B same as 002A)**

2. Instructor Information

Instructor: David Raju

Office hours: TBA

Office location: EWING 304

Phone: 370-3925

e-mail: raju@camosun.bc.ca

3. Required Materials

(a) Textbook: TBA

(b) BIOL 080 Laboratory Manual. **Spring 2008**. Camosun College Biology Faculty.

4. Content and Schedule

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

WK	DATE (week of)	TOPIC (D) / CASE STUDY (C)	DATE (Week of)	LAB TOPICS (Lab #)
1	May 5,6	Some Fundamentals of Biology (D) Scientific Inquiry (C)	May 6	Safety, Greetings
2	May 8,9	Introduction to Cell Biology (D) Stem Cell Research (C)	May 9	(1) Metric Measurements
3	May 12, 13	Plasma Membranes (D) Diffusion and Osmosis (C)	May 13	(3) Microscopy/Cell Structure
4	May 15,16	Enzymes (D) Organic/Inorganic Catalysts (C)	May 16	(4) Diffusion/ Osmosis
5	May 20	Case Study (TBA) (C)	May 20	(5) Enzyme activity
6	May 22,23	Organic Cpds (D) What's in your diet? (C)	May 23	(2) Organic Cpds
7	May 26,27	Cell Division (D) The Life of a Cell (C)	May 27	**LAB EXAM I**
8	May 29,30	**MIDTERM Review** MIDTERM	May 30	(6) Scientific Method/Fitness
9	June 2,3	Introduction to Genetics (D) Genetics Problems (C)	June 3	(7) Nutrition
10	June 5,6	Applied Genetics (D) DNA Investigations Activity (C)	June 6	(7) Nutrition cont.
11	June 9,10	Human Anatomy (D) Case Study (TBA)	June 10	(8) Human Organ Systems
12	June 12,13	Human Physiology 1(D) Case Study (TBA)	June 13	(9) Human Organ Systems
13	June 16,17	Nutritional Requirements (D) Human Nutrition (C) LAB EXAM 2 Review	June 17	(8,9) Systems cont.
14	June 19,20	Final Review (D) Final Case (C)	June 20	**LAB EXAM II**

5. Intended Learning Outcomes

1. Describe cellular structure and explain cellular processes such as respiration and protein synthesis.
2. Discuss cancer and genetic engineering in the context of cellular processes.
3. Describe the structure and function of the human digestive system, cardiovascular system, respiratory system, nervous system, urinary system, and reproductive system.

6. Basis of Student Assessment

Labs/Cases/Assignments	30%
Midterm Exam	10%
LAB EXAM I	15%
LAB EXAM II	15%
Final Exam	30%

Lab exams will be unit exams.
Please bring a pen *and* pencil to all exams.

7. Grading System

The following percentage conversion to letter grade will be used:

A+ = 90 - 100%	B+ = 77 - 79%	C = 60 - 64%
	B = 73 - 76%	D = 50 - 59%
A = 85 - 89%	B- = 70 - 72%	F = 0 – 49%
A- = 80 - 84%	C+ = 65 - 69%	

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 labs, 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.

Exams:
Missed lab exams cannot be made up. Missed lecture exams cannot be made up except in case of documented emergency or illness (doctor's note required). Unless prevented by emergency, you need to contact the instructor prior to the exam being missed in order to be eligible for the make-up exam.

Labs and Case Studies:
You need to attend. Please come prepared with a pencil and a few sheets of unlined and graph paper, in case drawings are required. **YOU CAN NOT TURN IN A LAB OR CASE STUDY FOR MARKS IF YOU DID NOT PARTICIPATE IN THE ACTIVITY DURING ITS SCHEDULED TIME PERIOD!**

Assignments:
Unless otherwise stated, all assignments are due at the *beginning* of the lab/class of the due date. A **professional format** is expected, i.e. a neat, legible, clean copy. "Rough" drafts risk rejection and a subsequent late penalty or reduced marks. If the assignment is more than one page, separate pages ***must be stapled***.

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