



**School of Arts & Science  
BIOLOGY DEPARTMENT**

**BIOL 080-02  
Inquiry into Life  
2006F**

## COURSE OUTLINE

The Approved Course Description is available on the web @ \_\_\_\_\_

Ω Please note: this outline will be electronically stored for five (5) years only.  
It is strongly recommended students keep this outline for your records.

### 1. Instructor Information

(a)	Instructor:	David Raju		
(b)	Office Hours:	M/TH 5:20-6:20PM and W/TH 12:20-1:20PM		
(c)	Location:	EWING 304		
(d)	Phone:	370-3925	Alternative Phone:	
(e)	Email:	raju@camosun.bc.ca		
(f)	Website:			

### 2. Intended Learning Outcomes

*(No changes are to be made to this section, unless the Approved Course Description has been forwarded through EDCO for approval.)*

Upon completion of this course the student will be able to:

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.

### 3. Required Materials

(a)	Texts	1) Textbook: Eldon D. Enger, Frederick C. Ross, David B. Bailey Concepts in Biology. McGraw-Hill. 2) BIOL 080 Laboratory Manual. Winter 2006. Camosun College Biology Faculty.
(b)	Other	

### 4. Course Content and Schedule

*(Can include: class hours, lab hours, out of class requirements and/or dates for quizzes, exams, lectures, labs, seminars, practicums, etc.)*

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

WK	DATE (week of)	WEEK'S TOPIC (D) / CASE STUDY (C)	LAB #	BIO 080 LAB TOPICS
1	Sept.4	Introduction to Biology (D) Life Around Us (C)		<u>NO LAB</u>
2	Sept. 11	Basics of Chemistry (D) Organ Transplant (C)	1	Introduction, Metric Measurements
3	Sept. 18	Organic Compounds (D) Genetic Engineering (C)	2	Organic Macromolecules
4	Sept. 25	Cell Structure and Function (D) Mitochondria (C)	4	Microscopy & Cell Structure
5	Oct. 2	Cell Membrane (D) Diffusion/Osmosis (C)	5	Diffusion and Osmosis
6	Oct. 9	Cell Division (D) Cell Cycle (C)		<u>NO LAB</u>
7	<b>Oct. 16</b>	Enzymes (D) Cancer (C)		<b>LAB EXAM I</b>
8	<b>Oct. 23</b>	<b>MIDTERM</b> Nutrition (C)	6	Enzymes
9	Oct. 30	Genetics 1 (D) Genetics A (C)	7	Cardiovascular Fitness
10	Nov. 6	Genetics 2 (D) Genetics B (C)	10	Nutrition
11	Nov. 13	Digestive/Cardiovascular/Respiratory (D) Cystic Fibrosis (C)		<u>NO LAB</u>
12	Nov. 20	Urinary/Reproductive Systems (D) Stem Cell (C)	8	Human Organ Systems: Models
13	Nov. 27	Nervous System (D) Homunculus (C)	9	Human Organ Systems: Models (9=8 cont.)
14	<b>Dec. 4</b>	Review (D) Final Case (C)		<b>LAB EXAM II</b>

### 5. Basis of Student Assessment (Weighting)

(Should be linked directly to learning outcomes.)

(a)	Assignments	Labs/Cases/Assignments	35%
(b)	Quizzes		
(c)	Exams	Midterm Exam	15%
		LAB EXAM I	12.5%
		LAB EXAM II	12.5%
		Final Exam	25%

(d)	Other (eg, Attendance, Project, Group Work)	
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Lab exams will be unit exams.  
Please bring a pen *and* pencil to all exams.

## 6. Grading System

*(No changes are to be made to this section, unless the Approved Course Description has been forwarded through EDCO for approval.)*

### Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
95-100	A+		9
90-94	A		8
85-89	A-		7
80-84	B+		6
75-79	B		5
70-74	B-		4
65-69	C+		3
60-64	C		2
50-59	D		1
0-49	F	Minimum level has not been achieved.	0

### Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy at [camosun.ca](http://camosun.ca) or information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete:</i> A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	<i>In progress:</i> A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
CW	<i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy E-1.5 at [camosun.ca](http://camosun.ca) for information on conversion to final grades, and for additional information on student record and transcript notations.

## 7. Recommended Materials or Services to Assist Students to Succeed Throughout the Course

## 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, at Student Services or the College web site at [camosun.ca](http://camosun.ca).

## STUDENT CONDUCT POLICY

There is a Student Conduct Policy **which includes plagiarism**. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, at Student Services and on the College web site in the Policy Section.

**Prerequisites:** English 10 or assessment. *Math 10 recommended.*

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 during your assigned section (A or B). Switching between sections on a permanent or temporary basis requires instructor's permission. 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**.