

**COURSE OUTLINE**  
Grading Systems

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**School of Arts & Science**

**BIOL 100 Inquiry into Life**  
**SPRING 2007**

**COURSE OUTLINE**

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**1. Information**

Course Description

This course is intended for the student interested in the fundamentals of Biology in the context of contemporary issues. Topics include: basic principles of biochemistry and cell biology, genetics and nutrition, animal structure and function.

**Prerequisites:** English 12 or assessment.

Time and Location

Section	Lab Time	Class Time
001	Tues/Fri 11:30-12:50PM (F244)	Mon/Thu 11:30-2:20PM (F210)

**2. Instructor Information**

Instructor: David Raju

Office hours: Tuesday/Friday 1:00-2:00PM

Office location: EWING 304

Phone: 370-3925

e-mail: raju@camosun.bc.ca

**3. Required Materials**

(a) Textbook: Audesirk, Audesirk, Byers. Biology: Life on Earth. Pearson Education.

(b) BIOL 100 Laboratory Manual. Winter 2007. Camosun College Biology Faculty.

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#### 4. Content and Schedule

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

WK	DATE (lecture)	TOPIC (D) / CASE STUDY (C)	DATE (LAB)	LAB TOPICS (Lab #)
1	May 7	Introduction to Biology (D) Scientific Method (C)	May 8	Introduction, Lab Safety, Meet and Greet
2	May 10	Organic Compounds (D) Henry David Thoreau Diet Case (C)	May 11	Microscopes and Measurements (1)
3	May 14	Cell Structure and Function (D) Mitochondria/Stem Cell (C)	May 15	Prokaryotic and Eukaryotic Cells (2)
4	May 17	Cell Membrane (D) Diffusion and Osmosis (C)	May 18	Diffusion and Osmosis (3)
5	May 21	NO CLASS	May 22	Cystic Fibrosis (C)
6	May 24	Enzymes (D) Catalase Study (C)	May 25	Enzymes (4)
7	May 28	Cell Division (D) Cell Cycle/Mitosis and Meiosis (C)	May 29	Mitosis: Onion Root (5)
8	<b>May 31</b>	Midterm Review Genetics 1 (D)	June 1	<b>LAB EXAM I</b>
9	<b>June 4</b>	<b>MIDTERM</b> Genetics 2 (D)	June 5	Human Genetics (6)
10	June 7	Genetics 3 (D) Cloning (C)	June 8	CATLAB (Go to First Floor Computer Lab in Ewing Building) (7)
11	June 11	Nutrition (D) Nutrition (C)	June 12	Nutrition (8)
12	June 14	Anatomy/Physiology 1(D) Cancer (C) an/or Homunculus (C)	June 15	Human Organ Systems: Models (9=10 cont.)
13	June 18	Anatomy/Physiology 2 (D) Organ Transplant (C)	June 19	Human Organ Systems: Models (10=9 cont.)
14	<b>June 21</b>	Final Review (D) Final Case (C)	June 22	<b>LAB EXAM II</b>

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### 5. Intended Learning Outcomes

1. Work in a culture of scientific endeavor and use critical thinking skills.
2. Identify the critical roles played by water in the maintenance of life on earth.
3. Explain the structures and roles of biological macromolecules, particularly carbohydrates, proteins and lipids.
4. Describe the complexity and diversity of cellular ultrastructure and the functions of significant cellular organelles, in particular: chloroplasts, mitochondria, ribosomes, Golgi apparatus, cilia and flagellae.
5. Describe basic metabolism and energy producing pathways within the cell.
6. Explain the concept of the gene in the contexts of both Mendelian inheritance as well as the biochemical expression of genetic information.
7. Relate the structure of nucleic acids to the storage and replication of genetic information.
8. Explain the mechanisms used to regulate and translate genetic information into the assembly of functional proteins.
9. Describe the interactions between the environment and long-term changes in genetic information, particularly in consideration of neoplasia.
10. Describe the anatomy of the human digestive, cardiovascular, and excretory systems and explain how the physiology of these organ systems is related to organization at the molecular and cellular level.
11. Describe the structure and explain the functions of the human immune system. Apply this knowledge to immune dysfunction, particularly allergies and AIDS.

### 6. Basis of Student Assessment

Labs/Cases/Assignments	35%
Midterm Exam	15%
LAB EXAM I	12.5%
LAB EXAM II	12.5%
Final Exam	25%

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+ = 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%	

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### **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](http://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>