



**CAMOSUN COLLEGE**  
**School of Arts & Science**  
**Department**

**BIOL 100 Non-Majors Biology I**  
**Summer 2005 – Section 001**

## **COURSE OUTLINE**

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### **1. Course Information**

#### Course Description

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. *Math 10 recommended.*

(Students who have recently completed grade 12 Biology will notice an overlap of course content.)

#### Time and Location

**Lect:** M, Th 11:30-2:20 in F338

**Lab:** T, F 11:30-12:50 in F226

### **2. Instructor Information**

Instructor: Thuy Nguyen

Office hours: T, F 12:50-2:20 and by appointment

Office location: F 248A

Phone: 370-3433

e-mail: [nguyen@camosun.bc.ca](mailto:nguyen@camosun.bc.ca)

### **3. Required Materials**

(a) Textbook: Johnson, G.B., 2003. **The Living World**. 3<sup>rd</sup> edition. McGraw Hill.

(b) **BIOL 100 Laboratory Manual**

**Optional:** Study Guide for *The Living World*.

#### 4. Course Content and Schedule

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

WK	DATE	LECTURE and LAB TOPICS	TEXT CH.
1	July 7	Course Introduction, Biochemistry Basics, Water & pH	1 & 3
	July 8	LAB 1: Introduction, Safety, Microscopes & Measurements	
2	July 11	Organic Macromolecules, Cell Membranes & Transport	3 & 4
	July 12	LAB 2: Prokaryotic and Eukaryotic Cells	
	July 14	Cell Biology	4
	July 15	LAB 3: Diffusion & Osmosis	
3	July 18	Enzymes, Photosynthesis, Cellular Respiration	5
	July 19	LAB 4: Enzymes	
	July 21	Cell Cycle, Mitosis, Cancer	6
	July 22	<b>MIDTERM I</b>	
4	July 25	Mendelian Genetics, Meiosis	7
	July 26	LAB 5: Mitosis: Onion Root & Genetics Problems	
	July 28	Genetics continued	7
	July 29	<b>LAB EXAM I</b>	
5	Aug 1	BC Day Class Cancelled	
	Aug 2	LAB 6: Human Genetics	
	Aug 4	Replication, Protein Synthesis, Mutations	8
	Aug 5	LAB 7: CATLAB	
6	Aug 8	Circulation	23
	Aug 9	<b>MIDTERM II</b>	
	Aug 11	Gas Exchange/Respiration	23
	Aug 12	LAB 8: Nutrition	
7	Aug 15	Digestion	24
	Aug 16	LAB 9: Human Organ Systems	
	Aug 18	Homeostasis, Excretion	24
	Aug 19	LAB 9: Human Organ Systems continued	
8	Aug 22	Catch-up & Review	
	Aug 23	<b>LAB EXAM II</b>	
	Aug 25-26	<b>FINAL EXAM PERIOD</b>	

## 5. Basis of Student Assessment

Assignments/quizzes	15%
Exams:	
Midterm I	15%
Midterm II	15%
Lab Exam I	15%
Lab Exam II	15%
Final Exam	25%

Midterms I and II, 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, at 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 be on time. It is your responsibility to acquire *all* information given during a class missed, including 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:**

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 of the due date. There is a **10%/day late penalty**. The format is expected to be professional, i.e. a neat, legible, 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:**

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. Having a study plan, setting study goals or joining a study group can help make this more fun.

## 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>