



**School of Arts & Science  
BIOLOGY DEPARTMENT**

**BIOL 151-002  
Human Physiology  
2009W**

## **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:	Don MacRae		
(b)	Office Hours:	TBA		
(c)	Location:	F346A		
(d)	Phone:	370-3437	Alternative Phone:	
(e)	Email:	dmacrae@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 the concept of homeostasis and explain how it operates in the major physiological systems of the human body.
2. Demonstrate an understanding of the functioning of the major physiological systems of the human body at the cellular and systemic levels.
3. Explain how the major physiological systems of the body interact to bring about biological behaviors.
4. Understand how physiological processes are altered in injury or disease.
5. Apply anatomical vocabulary in a physiological context.
6. Perform laboratory procedures relevant to physiology (observe physiological phenomena, measure physiological data, organize / record / analyze results of physiological experiments).
7. Utilize critical thinking to apply physiological concepts to specific problem solving situations.

### **3. Required Materials**

Text: Anatomy & Physiology: The Unity of Form and Function. Saladin, K., McGraw-Hill (2006) OR another college level textbook of anatomy or anatomy and physiology.

Biology 151 Laboratory Manual, Camosun College, 2009.

#### 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.)

This is a **tentative** schedule of lectures and labs. Changes may be announced in class.

Week	Dates	Lecture Topic	Lab Activity
1	Jan 5-9	Chemical Concepts and Physiology	Introduction to Laboratory
2	Jan 12-16	Digestion and Metabolism	Lab 1: Movement of molecules in biological systems
3	Jan 19-23	Digestion and Metabolism	Lab 2a: Acids, Bases and Buffers Lab 2b: Digestion of Organic Molecules
4	Jan 26-30	Neuromuscular Physiology	Lab 3a: Fermentation and Cellular Respiration Lab 3b: Glucose Monitoring
5	Feb 2-6	<b>Mid-term Exam 1</b> Neuromuscular Physiology	Lab 4a: Electromyography Lab 4b: Reaction time
6	Feb 9-13	Physiology of Sense Organs	LAB 5: Reflexes
7	Feb 16-18 Feb 19-20	Cardiovascular Physiology <b>Reading Break</b>	Lab tutorial
8	Feb 23-27	Cardiovascular Physiology	Lab 6a: Somesthetic testing Lab 6b: Vision testing
9	Mar 2-6	Immunology	Lab 7a: Electrocardiograms Lab 7b: Cardiovascular physiology
10	Mar 9-13	<b>Mid-term Exam 2</b> Respiratory Physiology	Lab 8: Hematology Lab 9: Immunology
11	Mar 16-20	Urinary Physiology	Lab 10a: Respirometry Lab 10b: Respiratory gases and ventilation
12	Mar 23-27	Urinary Physiology and fluid balance	Lab 11a: Urinalysis Lab 11b: Osmoregulation and water balance
13	Mar 30-Apr 3	Reproductive Physiology	Overview of labs
14	April 6-9 April 10	Reproductive Physiology <b>Good Friday – college closed</b>	<b>LAB EXAM</b>
	April 13 April 14-18 & 20-22	<b>Easter Monday – college closed</b> <b>FINAL EXAM – scheduled by registrar</b>	

## 5. Basis of Student Assessment (Weighting)

(Should be linked directly to learning outcomes.)

Assignments/tests	15%
Midterm Exam 1	15%
Midterm Exam 2	20%
Lab Exam	20%
Final Comprehensive Exam	30%

## 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
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D	Minimum level of achievement for which credit is granted; a course with a "D" grade cannot be used as a prerequisite.	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 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.

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, due to design may require a further enrollment in the same course. No more than two IP grades will be assigned for the same course. (For these courses a final grade will be assigned to either the 3 <sup>rd</sup> course attempt or at the point of course completion.)
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.

## 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.

### 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.

### Student Responsibilities

1. Follow any safety procedures specified by the instructor while in the Laboratory. Eating or drinking in the laboratory is NOT permitted. A grade penalty of 1% per offense will be applied.
2. Work cooperatively. There are times when laboratory materials are limited in number and must be shared. Working in groups will facilitate access to materials AND, with the appropriate attitude, greatly enhance the learning experience.
3. Recognize that there are times for collaborative efforts and times for individual effort. Do your own work on exams and assignments for which you are the only person receiving credit. In the case of group assignments, aim to contribute equally and discuss disparities of effort within the group and with the instructor ASAP.
4. Hand in assignments on time. Late assignments will be accepted and graded **at the discretion of the instructor**. If there is a reason that an assignment is late, discuss this with the instructor AND provide a brief written or e-mail explanation.
5. Write examinations and tests as scheduled. In the case of illness or emergency, notify the instructor by phone or e-mail **in advance** of the examination. You will be required to provide acceptable documentation to be granted a make-up exam or other form of accommodation.
6. Be familiar with the Camosun College student conduct policy.

**ADDITIONAL COMMENTS AS APPROPRIATE OR AS REQUIRED**