



School of Arts & Science  
BIOLOGY DEPARTMENT  
BIOL 151 Section 003  
Human Physiology  
Winter 2010

## COURSE OUTLINE

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The course description is online @ <http://camosun.ca/learn/calendar/current/web/biol.html>

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### 1. Instructor Information

Instructor: Tom Mace  
Office Hours: 11:30 – 12:30 (M,T,W,Tu), 12:30 – 1:30 (F), or any time Tom is in his office.  
Location: F248B  
Phone: 370-3436  
Email: [mace@camosun.bc.ca](mailto:mace@camosun.bc.ca)

### 2. Intended Learning Outcomes

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.

D2L: Laboratory Exercises and Assignments

#### 4. Course Content and Schedule

1	Jan 6-8	Chemical Concepts	No Lab
2	Jan 11-15	Digestion and Metabolism	Lab 1: Movement of molecules in biological systems
3	Jan 18-22	Digestion and Metabolism	Lab 2a: Acids, Bases and Buffers Lab 2b: Digestion of Organic Molecules
4	Jan 25-29	Neuromuscular Physiology	Lab 3a: Fermentation and Cellular Resp.
5	Feb 1-5	<b>Mid-term Exam 1</b> Neuromuscular Physiology	Lab 4a: Electromyography Lab 4b: Reaction time
6	Feb 8-12	Physiology of Sense Organs	LAB 5: Reflexes
7	Feb 15-17	Cardiovascular Physiology	Lab tutorial
	Feb 18-19	<b>Reading Break</b>	
8	Feb 22-26	Cardiovascular Physiology	Lab 6a: Somesthetic testing Lab 6b: Vision testing
9	Mar 1-5	Immunology	Lab 7a: Electrocardiograms Lab 7b: Cardiovascular physiology
10	Mar 8-12	<b>Mid-term Exam 2</b> Respiratory Physiology	Lab 8: Hematology Lab 9: Immunology
11	Mar 15-19	Urinary Physiology	Lab 10a: Spirometry Lab 10b: Respiratory gases and ventilation
12	Mar 22-26	Urinary Physiology Fluid balance	Lab 11a: Urinalysis Lab 11b: Osmoregulation and water balance
13	Mar 29-Apr 1	Reproductive Physiology	Overview of labs
	Apr 2	<b>Good Friday</b>	
	Apr 5	<b>Easter Monday</b>	
14	April 6-10	Reproductive Physiology	<b>LAB EXAM</b>

## 5. Basis of Student Assessment (Weighting)

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

## 6. Grading System

### 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. <i>(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.)</i>
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 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 the College web site in the Policy Section.