

	School of Arts & Science BIOLOGY DEPARTMENT BIOL 151-001 Human Physiology Winter 2013
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COURSE OUTLINE

Camosun College stores this outline for five (5) years only. It is recommended that you keep a copy since it may be required to support a future request for transfer credit/s to out of province colleges/universities.

(4 credits) W (3,0,1.5,0,0)

This course is the companion to BIOL 150. It provides an overview of functional relationships within the human body. Physiological processes are studied at both the cellular and organ system level, with an emphasis on the maintenance of homeostasis. Laboratory exercises illustrate basic physiological principles.

To find where this course transfers, check the [BC Transfer Guide](#)

Prerequisite(s): BIOL 150; **and** Chemistry 11, or CHEM 100.

1. Instructor Information

Instructor:	W. Donald MacRae
Office Hours:	Wed (10:30-11:30 & 1:30-2:30); Thurs (10:30-12:30); Fri (10:30-11:30)
Location:	F346A
Phone:	370-3437
Email:	dmacrae@camosun.bc.ca
Website:	D2L

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

Lecture Notes: Supplied electronically via D2L website.

Lab Notes: Supplied electronically via D2L website.

4. Course Content and Schedule

Wk	Dates	Lecture Topic	Lab Activity
1	Jan 7-11	A Short History of Physiology Chemistry of Life Aspects of Cell Function	Lab 1: Molecular modeling
2	Jan 14-18	Metabolism and Nutrition	Lab 2: Movement of molecules
3	Jan 21-25	Neuromuscular Physiology	Lab 3: Amylase activity
4	Jan 28- Feb 1	Neuromuscular Physiology	Organization of groups/Intro to physiology instruments
5	Feb 4-8	Cardiovascular Physiology Lecture test 1 (Feb 8)	Experiments
	Feb 11	Family Day (College closed)	
6	Feb 12-15	Cardiovascular Physiology	Experiments
7	Feb 18-20	Respiratory Physiology	Experiments
	Feb 21-22	Reading Break	Experiments
8	Feb 25- Mar 1	Respiratory Physiology Urinary Physiology	Experiments
9	Mar 4-8	Urinary Physiology and Fluid Balance	Experiments
10	Mar 11-15	Digestion	Experiments
11	Mar 18-22	Immunology Lecture test 2 (March 21)	Experiments
12	Mar 25-28	Special Senses	Oral presentations
March 29-April 1 Easter			
13	April 1-5	Male Reproductive Physiology	Poster presentations
14	April 8-12	Female Reproductive Physiology	Poster presentations
	April 15-24	Lecture test 3 – scheduled by registrar	

5. Basis of Student Assessment (Weighting)

Lab

Lab reports	15%
Oral Presentation	7.5%
Poster Presentation	7.5%

Lecture

Assignments (2)	10%
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Exams

Lecture test 1	15%
Lecture test 2	15%
Lecture test 3	30 %

6. 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 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 rd 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

A variety of services are available for students to assist them throughout their learning. This includes not only assistance in study skills but health and counseling services. This information is available in the College calendar, at Student Services, or the College web site at 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.