



School of Arts & Science
BIOLOGY DEPARTMENT

BIOL 151
Human Physiology
Spring 2013

COURSE OUTLINE

1. Instructor Information

(a)	Instructor:	Jane Gair		
(b)	Office Hours:	TBA		
(c)	Location:	F352		
(d)	Phone:	370-3909	Alternative Phone:	
(e)	Email:	gairj@camosun.bc.ca		
(f)	Website:	http://online.camosun.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: **Fundamentals of Anatomy & Physiology** (9th Edition), Martini/ Nath/ Bartholomew. (2012)

D2L: Laboratory Exercises and Assignments

4. Course Content and Schedule

Lecture Mon and Thurs 8:30 – 11:20 F306

Lab Tues and Fri 8:30 – 11:20 F226

The schedule, which follows, is an attempt to outline the weekly activities of the class. It is subject to change or modification as the need arises.

Week	Dates	Lecture Topic	Lab Activity
1	May 6-10	Chemical Concepts and Physiology (Unit 1) Metabolism & Energetics (Unit 2) (Chapters 1, 2 & 25) The Digestive System (Unit 3) (Chapter 24)	Lab 1: Movement of molecules in biological systems Lab 2: Acids, Bases and Buffers Digestion of Organic Molecules
2	May 13-17	Neurophysiology (Neural System) (Unit 4a) (Chapter 12) Neuromuscular Physiology (Unit 4b) (Chapter 10)	Lab 3: Electromyography Reaction time Lab 4: Reflexes
3	May 21-24 ***NO class Monday, May 20 (Victoria Day Holiday)	Physiology of Sense Organs (Unit 5) (Chapter 15 & 17)	Lab 5: Somesthetic testing Vision testing Lab 6: Electrocardiograms Cardiovascular physiology
MIDTERM – Monday, May 27 @ 8:30 am (1 hour) LAB MIDTERM – Friday, May 31 @ 8:30 am (1 hour)			
4	May 27-31	Cardiovascular Physiology (Unit 6) (Chapter 19, 20 & 21) Immunology (Unit 7) (Chapter 22)	Lab 7: Hematology Lab 8: Immunology
5	June 3-7	Respiratory Physiology (Unit 8) (Chapter 23)	Lab 9: Spirometry Respiratory gases and ventilation
6	June 10-14	Urinary Physiology (Unit 9) (Chapter 26) Urinary Physiology and Fluid Balance (Chapter 27)	Lab 10: Urinalysis Osmoregulation and water balance
7	June 17-21	Reproductive Physiology (Unit 10)	FINAL LAB EXAM – June 21
FINAL EXAM – scheduled during exam period (June 24-28)			

5. Basis of Student Assessment (Weighting)

Assignments/tests	20%
Midterm Exam	15%
Midterm Lab Exam	15%
Final 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 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 3rd 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.

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.

Plagiarism

Plagiarizing is appropriating the work of another or parts or passages of another's writing (including the ideas or language) and passing them off as the product of one's own mind or manual skill. **Plagiarism will not be tolerated.** All written material must be done individually. This **includes lab data and graphs**; although some lab work will be done in groups, material submitted for grading must be processed and submitted independently. Plagiarism, **including the copying of any part of assignments or lab assignments**, is a serious offence and is considered to be academic misconduct.

Cheating

A student caught cheating on an exam will forfeit all credit for that exam and perhaps for the course. Cheating is a serious offence and is considered to be academic misconduct. **Cheating includes, but is not limited to, using unauthorized materials in a quiz/exam and providing information to another person regarding exam content.**

The consequences for cheating and plagiarism are outlined by Camosun College policies (see <http://camosun.ca/about/policies/education-academic/e-2-student-services-&-support/e-2.5.pdf> and <http://camosun.ca/about/policies/education-academic/e-2-student-services-&-support/e-2.5.1.pdf>) and may be severe.

ADDITIONAL INFORMATION

Office Hours

There will be posted office hours where you can come and drop by to see me with any questions that you might have in F352. If you cannot make these office hours, please feel free to email me (gairj@camosun.bc.ca) with any questions, or you can always set up an appointment with me to meet outside of office hours. I am committed to being available for you, so please feel free to contact me whenever you need to!

No programmable devices are allowed in exams.

Missed Exams

Without exception, all lecture and lab exams must be written at the scheduled times. **Under no circumstances will a make-up exam be administered.** However, it is understood that emergency circumstances occur (e.g. illness or emergency in the immediate family); for such circumstances accommodation may be offered at the discretion of the instructor, provided (a) the instructor is notified in advance of the exam (**not after**) and (b) the student provides **documented evidence** of the circumstance (i.e. medical certificate). **Without exception**, the accommodation will be in the form of adjusting the weighting of the final exam to make up the missing marks. In such cases, the final exam will include extra questions to examine knowledge of the untested subject matter.

*****HOLIDAYS OR SCHEDULED FLIGHTS ARE NOT CONSIDERED TO BE EMERGENCIES *******

Be sure not to plan airline flights for the end of semester until the final exam schedules are finalized and posted.

Late Penalties

Assignments are due at the **beginning** of the class period on the due date. Assignments not handed in at the beginning of class will be considered late, for which there is a 10% penalty/day.

Note: There is the option of 1 free late assignment. There will be no penalty provided the assignment is received **prior** to it being marked and returned to the class. Any assignment received after its return to the rest of the class will be marked but will not receive credit.

Lecture Attendance

Attending lectures will be an important part of succeeding in this course. From time to time there will be quizzes and other in-class activities for marks that will also help you and I determine how you are doing with the material. If you know that there is a lecture that you will miss where an announced activity will take place, you must let me know ahead of time and have a legitimate reason to miss it (e.g. an emergency or an illness with documented evidence). The lecture PPT presentations will be posted on <http://online.camosun.ca> but there will be much more information provided during lecture time that you won't want to miss!

Laboratory Attendance

The laboratory experience is critical to the course objectives and so attendance throughout the entire laboratory session is mandatory and will be noted. Lateness in arriving, failure to attend the lab or leaving the lab before its scheduled finish time will result in forfeiting credit for that lab, including any written assignments.

Arriving more than **5 minutes** after the start of the lab time is considered late and will only be acceptable one time or with a legitimate excuse.

If a lab session is missed, another student's data **may not** be used to complete a lab assignment for credit. Exceptions can be made **at the instructor's discretion** in legitimate cases of emergency (e.g. illness); in such cases the instructor must receive **advance notification** and **documented evidence** of the situation (e.g. medical certificate) and grant approval for any accommodation. In cases when a lab is done over two weeks, missing one of the weeks without instructor approval will result in a 50% reduction in the grade for any assignment associated with that lab.