



CAMOSUN COLLEGE
School of Arts & Science
Department of Biology

BIOL-144-001B/C/D/X01A/B
Physiology for Sport Education
Winter 2019

COURSE OUTLINE

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

Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

1. Instructor Information

(a) Instructor	Douglas Panton	
(b) Office hours	TBA	
(c) Location	Tech 219	
(d) Phone	250-370-4406	Alternative: _____
(e) E-mail	pantond@camosun.bc.ca	
(f) Website	_____	

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. Describe the functioning of the major physiological systems of the human body at the cellular and systemic levels.
3. Explain the interactions between the major physiological systems of the body particularly as these interactions pertain to exercise and health.
4. Apply anatomical vocabulary in a physiological context.
5. Apply basic laboratory skills in the collection of physiological data (e.g., measuring, pipetting, handling of chemicals, data collection, data presentation, lab safety).
6. Utilize critical thinking to apply physiological concepts to specific problem-solving situations in the context of scientific method.

3. Required Materials

Martini and Ober. (2011). *Visual Anatomy and Physiology*, Pearson Education Inc. San Francisco.

Lab Manual: *Biology 144: Physiology Labs for Sport Education*,
(labs are printed from the course website)

4. Course Content and Schedule

Class hours: 3 hrs lecture / week and 3 hrs lab / week
Credits : 4 credits

COURSE SCHEDULE Biol. 144 - WINTER 2019

The following schedule is a tentative outline of lectures and laboratories. It is subject to change as the need arises. Changes will be announced in class.

WEEK/DATE	LECTURE TOPIC	LAB
Jan. 7-11	Intro to Chemistry	Lab 1: Intro to Laboratory Science
Jan 14-18	Intro to Cellular physiology	Lab 2: Intro to Chemical Concepts
Jan. 21-25 Jan. 21	Digestive Physiology Fee Deadline	Lab 3: Digestion of Organic Molecules
Jan 28- Feb. 1	Metabolism	Lab 4: Cellular Respiration and Glucose Monitoring
Feb. 4-8	“ MIDTERM 1” Neural Physiology	Lab 5: Reflexes and cranial nerve tests
Feb.11-15	Neural Physiology	Lab 6: Sensory perception
Feb 18-22	Family day Feb. 18 Reading break Feb. 19-22	(No labs)
Feb. 25- Mar. 1	Muscle Physiology	(No labs)

Mar 4-8	Cardiovascular Physiology	Lab 7: Muscle Physiology
Mar 11-15 Mar. 14	Hematology “Last day to withdraw”	Lab 8: Cardiovascular Physiology
Mar 18-22	“ MIDTERM 2 ” Immunology / Defense Systems	Lab 9: Hematology and Immunology
Mar 25-29 Mar. 30	Respiratory Physiology	Lab 10: Respiratory Physiology
April 2 Apr. 1-5	Renal Physiology	Lab 11: Urinalysis
Apr. 8-12	Renal Physiology & Reproductive Physiology LAST WEEK OF CLASSES	LAB EXAM
Apr 15-18 Apr 23-26	FINAL EXAM PERIOD (exam scheduled by registrar)	

5. Basis of Student Assessment (Weighting)

Midterm 1	15%
Midterm 2	15%
Assignments	15%
Lab reports	10%
Lab exam	15%
Final exam	30%

6. Grading System

- Standard Grading System (GPA)
- Competency Based Grading System

7. Recommended Materials to Assist Students to Succeed Throughout the Course

Student Responsibilities

1. Students are expected to hand in any required assignments on time. 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.
2. Attendance correlates highly with academic success. If unable to attend a lecture or lab session, the student is responsible for arranging with a classmate to obtain information such as notes, handouts and announcements.
3. Examinations must be written as scheduled except in the case of illness or emergency. The student must notify the instructor **in advance** of the examination. Documentation acceptable to your instructor is required to schedule a make-up exam. **Vacation, work or travel plans do not constitute an emergency and exams will not be rescheduled**
3. Any evaluation of work for in-class assignments or lab assignments, reports and/or participation will not be given if a student is not present in class or lab.
4. Quizzes will be written at the beginning of class; if you are late for class you may not be allowed to write the quiz
5. Students are expected to work independently on assignments unless the evaluation is based on group effort. Please see **ACADEMIC MISCONDUCT**.

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, Registration, and on the College web site in the Policy Section, and in the Camosun calendar

Concerning spelling

Mastering the usage of anatomical and physiological terminology will be important to you for several reasons. Correct usage (pronunciation and spelling) will

- foster self confidence
- help to earn the respect of your professional colleagues
- reduce the chances of practical mistakes which may cause harm or embarrassment. (consider the difference between the terms **peroneal** and **perineal** or **ileum** and **ilium**)

You will be expected to use acceptable pronunciation and correct spelling for presentations, assignments and exams. **Penalties for spelling errors will be applied.** If writing is illegible, no marks will be given.

8. College Supports, Services and Policies



Immediate, Urgent, or Emergency Support

If you or someone you know requires immediate, urgent, or emergency support (e.g. illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts @

<http://camosun.ca/about/mental-health/emergency.html> or <http://camosun.ca/services/sexual-violence/get-support.html#urgent>

College Services

Camosun offers a variety of health and academic support services, including counselling, dental, disability resource centre, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit the **STUDENT SERVICES** link on the College website at <http://camosun.ca/>

College Policies

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies. Policies are available on the College website at <http://camosun.ca/about/policies/>. Education and academic policies include, but are not limited to, Academic Progress, Admission, Course Withdrawals, Standards for Awarding Credentials, Involuntary Health and Safety Leave of Absence, Prior Learning Assessment, Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, Student Appeals, Student Conduct, and Student Penalties and Fines.

A. GRADING SYSTEMS *http://camosun.ca/about/policies/index.html*

The following two grading systems are used at Camosun College:

1. 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		1
0-49	F	Minimum level has not been achieved.	0

2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

Grade	Description
COM	The student has met the goals, criteria, or competencies established for this course, practicum or field placement.
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.

B. 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 at

<http://camosun.ca/about/policies/index.html> 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 are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
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.