



CAMOSUN COLLEGE
School of Arts & Science
Department of Visual Arts

Biology 144
Physiology for Sport Education
Winter 2021

COURSE OUTLINE

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

☐ 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 W. H. Panton |
| (b) Office hours | TBA |
| (c) Location | N/A |
| (d) Phone | (250) 370-4406 Alternative: _____ |
| (e) E-mail | pantond@camosun.bc.ca |
| (f) Website | N/A |

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

Text: Sherwood, Kell and Ward. 2nd. Canadian edition (2013) Human Physiology: from cells to systems, Nelson education ltd. Toronto

Lab Manual: Biology 144: Physiology Labs for Sport Education,

4. Course Content and Schedule

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. 11-15 | Intro to Chemistry | Lab 1: Intro to Laboratory Science |
| Jan 18-22 | Intro to Cellular physiology | Lab 2: Intro to Chemical Concepts |
| Jan. 25-29 Jan. 22 | Digestive Physiology Fee Deadline | Lab 3: Digestion of Organic Molecules |
| Feb. 1-5 | Metabolism | Lab 4: Cellular Respiration and Glucose Monitoring |
| Feb. 8-12 | “MIDTERM 1” Neural Physiology | Lab 5: Reflexes and cranial nerve tests |
| Feb. 15 Feb.16-19 | FAMILY DAY READING BREAK | NO LABS |
| Feb 22-26 | Neural Physiology | Lab 6: Sensory perception |
| Mar. 1-5 | Muscle Physiology | Lab 7: Muscle Physiology |

| | | |
|---|--|--|
| Mar 8-12 | Cardiovascular Physiology | Lab 8: Cardiovascular Physiology |
| Mar 15-19 | Hematology | Lab 9: Hematology and Immunology |
| Mar. 22-26 | “MIDTERM 2” Immunology / Defense Systems | Lab 10: Respiratory Physiology |
| Mar 29 – Apr. 2 April 2 April 2 | Respiratory Physiology <u>Due date for oral Assignment</u> GOOD FRIDAY | Lab 11: Urinalysis |
| April 5 Apr. 5-9 | EASTER MONDAY Renal Physiology | Lab Review |
| Apr. 12-16 | Renal Physiology & Reproductive Physiology LAST WEEK OF CLASSES | Lab exam |
| Apr 19-27 | FINAL EXAM PERIOD (exam scheduled by registrar) | |

5. Basis of Student Assessment (Weighting)

| | |
|-------------|-----|
| Midterm 1 | 15% |
| Midterm 2 | 15% |
| Assignments | 10% |
| lab reports | 20% |
| Lab exam | 15% |
| final exam | 25% |

6. Grading System

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

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

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, Student Ancillary Fees, Academic Integrity, Grade Review & Appeals, Student Misconduct and Academic Accommodations for Students with Disabilities 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. |