



**CAMOSUN COLLEGE**  
**School of Arts & Science**  
**Department of Biology**

**BIOL-153-D04**  
**Anatomy/Physiology 2: Nursing**  
**Winter 2021 (COVID edition)**

**COURSE OUTLINE**

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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.

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**1. Instructor Information**

(a) Instructor	Thuy Nevado
(b) Office hours	Tues 10:30-11:20am Thurs 3:00-3:50pm or by appointment
(c) Location	Via D2L Collaborate
(d) Phone	(250)-370-3433 or (250)-216-2137
(e) E-mail	nevadot@camosun.ca
(f) Website (D2L)	<a href="https://online.camosun.ca">https://online.camosun.ca</a> <a href="https://sites.camosun.ca/peggyhunter/">https://sites.camosun.ca/peggyhunter/</a> for extra lab resources

**2. Intended Learning Outcomes**

Upon completion of this course the student will be able to:

1. Demonstrate proper use and understanding of anatomical and physiological terminology related to organ systems not previously covered in BIOL 152.
2. Use concepts related to basic anatomy, physiology, and histology in order to explain the maintenance of health and prevention of disease.
3. Use knowledge of normal anatomy and physiology to differentiate normal from abnormal when doing physical assessments of clients.
4. Use knowledge of anatomy and physiology as a basis for further study of pathophysiology.
5. Relate knowledge of gross anatomy and physiological processes gained through laboratory activities to assessment of health.
6. Explain the functional integration of all body systems in the maintenance of homeostasis and health.

**3. Required Materials**

a) **Required Texts**

Martini, Nath and Bartholomew (2018). *Fundamentals of Anatomy and Physiology Eleventh Edition*, Pearson Education Inc. San Francisco.

Lab manual (*labs to be printed from D2L course content*)

b) **Optional Texts**

OpenStax Anatomy and Physiology (<https://openstax.org/details/anatomy-and-physiology>)

c) **Laboratory Requirements**

1. Students are required to wear closed shoes (e.g. no flip flops, sandals, or shoes with holes)
2. Binder for laboratory manual

d) **Knowledge of pre-requisite material**

It is important that you are familiar with material that has already been covered in the prerequisite courses, Biology 12 or Biology 080, Chemistry 11 and Biology 152. This information is necessary in order to understand concepts taught in Biology 153. Students are expected to review this pre-requisite material on their own, especially those topics listed as “**review**” in the course objectives and chapters 2 and 3 in your textbook. This information, as it relates to topics covered in the course, is also examinable.

**You will obtain information from several sources including lectures, class discussions, textbooks, videos, laboratory exercises and clinical courses. Do not rely exclusively on any one, or only some of the sources. A strongly recommended approach to successfully completing this course is to review topics in your textbook before class and then consolidate information obtained in lectures with that in the textbook, after class.**

#### 4. Course Content and Schedule

Please refer to p.7 of this document for a detailed course schedule.

#### 5. Basis of Student Assessment (Weighting)

There will be two theory examinations and two laboratory examinations. Examination questions in Biology 153 will incorporate critical thinking and problem-solving. Marks will also be awarded for prelab work, quizzes and assignments. Examinations will be given at times indicated on the Course Schedule. Assignments will be due at times as announced in class. Please see STUDENT RESPONSIBILITIES.

D2L Prelabs	5%
Assignments and quizzes	10%
Midterm Lecture Exam ( <b>March 1<sup>st</sup>, 6:30-8:00pm</b> )	25%
Lab Exam I (midterm)	12.5%
Lab Exam II (final)	12.5%
Final Comprehensive Lecture Exam	35%
	TOTAL 100%

- The lecture exams will cover topics that have been discussed during lectures. Many of these topics may also be reinforced in the laboratory.
- Laboratory exams include a practical component; for example, the identification of structures from anatomical models, dissections and slides; the following web site may be useful in reviewing lab material as it provides labeled images of tissues and models examined in the lab:

website <https://sites.camosun.ca/peggyhunter>

- The final lecture exam is comprehensive, covering the entire semester.

## IMPORTANT TO NOTE!

Exams **must be written at the scheduled times**. If a student is unable to attend an exam because of a genuine medical or other emergency, **the instructor must be notified in advance of the examination**. Late notifications will not be accommodated. Once an exam is written, there will be **no rewrites or supplementals** given. Upon submission of acceptable supporting documentation, the following accommodations will be available:

- if the Midterm Lab Exam is missed, the Final Lab Exam will be expanded and will count for 25% of the final grade
- if a student is unable to take the final laboratory examination and provides acceptable documentation, an oral laboratory examination may be given
- if the Midterm Lecture Exam is missed, a make-up Lecture Exam will be scheduled during week 11. **This exam will cover all topics up to and including week 10.**
- if the Final Lecture Exam is missed, the student will receive a mark of incomplete and will have 6 weeks from the last day of classes to write the exam. However, students will not be able to begin clinical practice until they are confirmed to have a minimum of 60% in Biology 153.

***Vacation plans and scheduled flights do not constitute an emergency.***

## 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**.

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.

## PRELAB QUIZZES AND PRELABS

Each week, your prelab activities will involve 2 components, both of which must be completed **before** you attend lab. The order in which you do the activities is up to you, but it is strongly recommended that once you have completed the D2L quizzes, submitted your answers and received feedback, that you use this information to ensure that the answers you have in your lab manual are correct.

- The prelab assignment is described on the first page of every lab, and usually involves labelling diagrams, filling in tables or answering questions in your lab manual. It is suggested that you use your lecture notes or textbook to help you complete this part of your prelab work. The prelab content must be transferred to your printed lab **before lab** each week.
- D2L quizzes are open book and not timed. If you save your answers as you complete them, you can pause partway through a quiz and return another time if you are interrupted. Once you are satisfied with your responses, you submit the quiz for marking. **Your mark will be based on your answers the first time you submit a quiz.** However, you can redo the quizzes as many times as you wish as part of your study activities. Once you've submitted your quiz, remember to use this information to fill in or check the answers in your lab manual. The prelab activities are designed to provide you with a quick reference and to help you come to lab prepared so that you can spend your lab time practicing with your partner and with the models and slides.

## STUDENT RESPONSIBILITIES

1. Students are expected to hand in any required assignments on time.
2. **Late assignments will receive a penalty of 10% per day.**
3. Attendance is important to ensure success. If unable to attend a session, the student is responsible for obtaining information such as notes, handouts and announcements.
4. Examinations must be written as scheduled. Exceptions may be made for emergencies at the discretion of the instructor and only if documentation of the illness or emergency acceptable to the department is received. The student must notify the instructor **in advance** of the examination.
5. Any evaluation of work for in-class/lab assignments, reports and/or participation will not be given if a student is not present for any reason.
6. **Students are expected to work independently on assignments unless instructed that the evaluation is based on group effort and evaluation.**
7. Students must know and follow all Safety Rules and Procedures.
8. Students must sign the Safety Contract before participating in any laboratory activity.
9. Failure to follow the Safety Rules and Procedures will result in penalties at the discretion of the instructor.
10. Students are requested to turn off cell phones and pagers during lectures and laboratory sessions.
11. All laboratories start punctually. Information necessary for performing the laboratory correctly and safely is given at the beginning of the lab.

## ACADEMIC MISCONDUCT

*Academic misconduct includes but is not limited to the following acts:*

1. Giving or receiving unauthorized information to or from another student during any examination or test.
2. Obtaining or providing, without authorization, questions or answers relating to any examination or test prior to the time of the examination or test.
3. Using unauthorized sources of information during any examination or test.
4. Asking or arranging for another person to take any examination or test in one's place.
5. Plagiarizing, that is, appropriating the work of another or parts or passages of another's writing, or the ideas or language of the same, and passing them off as the product of one's own mind or manual skill.

According to Camosun College policy, the consequence for academic misconduct is an 'F' grade for the work involved or for the course as a whole. If you would like further information, you can find the Academic Honesty Guidelines by going to the Camosun website and searching for "Arts and Science Academic Honesty Guidelines."

## 6. Grading System

- Standard Grading System (GPA) see page 6 for details
- Competency Based Grading System

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

You are encouraged to **consult your instructor if you require assistance or experience difficulty** with 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).

## 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, center for accessible learning, help center, 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	Minimum required to continue in Biology 252.	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

### 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.

## BIOLOGY 153 COURSE SCHEDULE WINTER 2021

The following is a **tentative** schedule of lectures and labs. Changes may be announced in class.

Wk	Dates	Lecture	Lab activity	Quiz/Assign
1	Jan 11-15	Hemostasis Cardiovascular anatomy	Blood (review) Hematopoiesis	A1 Hemostasis (due Jan 21)
2	Jan 18-22	Cardiovascular anatomy Cardio physiology	LAB 1: Lab Safety (Review) and Hematology	
3	Jan 25-29	Cardio physiology	LAB 2: Cardiovascular anatomy	Q1 Hematology & Hematopoiesis (start of lab)
4	Feb 1-5	Blood pressure Capillary exchange	LAB 3: Cardiovascular physiology	Q2 Cardio A (start of lab) A2 BP Bulk flow (due Feb 11)
5	Feb 8-12	Respiratory system	LAB 4: Respiratory system A&P	Q3 Cardio P (start of lab)
6	<b>Feb 15</b> <b>Feb 16-19</b>	<b>Family Day (College closed)</b> <b>Reading Break</b>	<b>NO LABS</b>	
7	Feb 22-26	Respiratory system Lymphatic System	<b>LAB EXAM 1</b>	
8	<b>Mar 1</b> Mar 1-5	<b>MIDTERM LECTURE EXAM *</b> Immunology (2)	Lab 5: Microbiology 1	A3 Immune (due Mar 11)
9	Mar 8-12	Immunology Digestive system	LAB 6: Microbiology 2	A4 Immunization (due Mar 18)
10	Mar 15-19	Digestive system (2)	LAB 7: Lymphatic system and blood typing	
11	Mar 22-26	Digestive system Metabolism	LAB 8: Digestive System A&P	Q4 Micro Blood typing (start of lab)
12	Mar 29- Apr 1 <b>Apr 2</b>	Metabolism (2)  <b>Good Friday (College closed)</b>	LAB 9: Nutrition and Metabolism	Q5 Digestion (start of lab)
13	Apr 5 Apr 6-9	<b>Easter Monday (College closed)</b> Urinary System	LAB 10: Urinary System A&P	
14	Apr 12-16	Urinary System Fluid Acid Base Balance	<b>LAB EXAM 2</b>	
	April 19-23	<b>FINAL COMPREHENSIVE EXAM</b> (Date TBA)		

(\* the midterm will be scheduled **outside of normal class time** in the evening on **Monday, March 1st 6:30-8:00pm**)