



## COURSE OUTLINE

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

- Ω Please note: the College electronically stores this outline for five (5) years only.  
It is **strongly recommended** you keep a copy of this outline with your academic records.  
You will need this outline for any future application/s for transfer credit/s to other colleges/universities.
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### 1. Instructor Information

Instructor: Thuy Nevado  
Office Hours: Mon 9:30-11:20am, Tues 2:30-3:20pm  
Location: F248A  
Phone: 250-370-3433  
Email: [nevadot@camosun.bc.ca](mailto:nevadot@camosun.bc.ca)  
Tutorial Hours: in F212: Mon 11:30am-12:20pm and Tues 1:30-2:20pm

### 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) Martini, Nath and Bartholomew (2012). *Fundamentals of Anatomy and Physiology Tenth Edition*, Pearson Education Inc. San Francisco.
- b) Department of Biology. (2016). *Biology 153 Anatomy & Physiology 2 Laboratory Manual*, Camosun College, Victoria.
- c) Students are required to wear closed shoes (e.g. no flip flops, sandals, or shoes with holes) **and** a laboratory coat during all lab sessions. (Cloth coats are preferable but disposable ones are acceptable.) If you forget your lab coat when one is required, you may rent one for \$5. Without proper protective clothing and shoes, you will not be permitted to attend that lab.
- d) Binder for laboratory manual, notes and assignments.

#### 4. Optional Texts

**(Some students find the following resources helpful with their preferred study or learning styles, but they are not required. Please consult your instructor if you have any questions about the following optional texts.)**

Engelkirk, P.G. and Burton, G.R.W. (2007). *Burton's Microbiology for the Health Sciences*. Lippincott Williams & Wilkins.

\*Kapit, W. and Elson, L. (2002). *The Anatomy Coloring Book*. New York, NY: Harper & Row. (\*or other similar publication)

Krieger, P.A. (2009). *A Visual Analogy Guide to Human Physiology*. (2nd Ed.) Morton Publishing Company, Colorado.

**N.B.** You will obtain information from several sources including lectures, class discussions, textbooks, videos, labs and clinical courses. Do not rely exclusively on any one, or only some of the sources.

#### 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 4<sup>th</sup>, 5:00 – 6:20 pm</b> )	25%
Lab Exam I (midterm)	10%
Lab Exam II (final)	15%
Final Comprehensive Lecture Exam	35%
	TOTAL 100%

#### 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 extended 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.***

## 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](http://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 3<sup>rd</sup> 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.

### 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.

## 7. Student responsibilities

1. Students are expected to hand in any required assignments on time.
2. D2L Prelab quizzes must be completed before the start of lab in order to be graded.
3. Assignments are due at the beginning of class. Late assignments will receive a penalty of 10% per day.
4. Attendance is important to ensure success. If unable to attend a session, the student is responsible for arranging with a classmate to obtain information such as notes, handouts and announcements.
5. 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. For more information, see page 2.
6. 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.
7. Students are expected to work independently on assignments unless instructed that the evaluation is based on group effort and evaluation.
8. Students must know and follow all Safety Rules and Procedures.
9. Students must sign the Safety Contract before participating in any laboratory activity.
10. Failure to follow the Safety Rules and Procedures will result in penalties at the discretion of the instructor.
11. Students must turn off cell phones and pagers during lectures and laboratory sessions.
12. All laboratories start punctually. Information necessary for performing the laboratory correctly and safely is given at the beginning of the lab.

## 8. 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 at [camosun.ca](http://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.

## BIOLOGY 153 COURSE SCHEDULE WINTER 2016

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

Week	Dates	Lecture	Lab activity
1	Jan 11 – 15	Hemostasis Cardiovascular anatomy	Review Hematology
2	Jan 18 – 22	Cardiovascular anatomy Cardio physiology	LAB 1: Lab Safety (Review) and Hematology
3	Jan 25 – 29	Cardio physiology (2)	LAB 2: Cardiovascular anatomy
4	Feb 1 – 5	Blood pressure Capillary exchange	LAB 3: Cardiovascular physiology
5	<b>Feb 8</b> Feb 9 – 12	<b>Family Day (College closed)</b> Respiratory system (1)	LAB 4: Respiratory system A&P
6	Feb 15 <b>Feb 16 – 19</b>	Respiratory system (1) <b>READING BREAK</b>	<b>NO LABS</b>
7	Feb 22 – 26	Respiratory system Lymphatic System	<b>MIDTERM LAB EXAM</b>
8	Feb 29 – <b>Mar 4</b>	Immunology (2) <b>MIDTERM LECTURE EXAM *</b>	Lab 5: Microbiology 1
9	Mar 7 – 11	Immunology Digestive system	LAB 6: Microbiology 2
10	Mar 14 – 18	Digestive (2)	LAB 7: Lymphatic system and blood typing
11	Mar 21 – 25 <b>Mar 25</b>	Digestive system Metabolism <b>Good Friday (College closed)</b>	LAB 8 : Digestive System A&P
12	<b>Mar 28</b> Mar 29 – Apr 1	<b>Easter Monday (College closed)</b> Metabolism (1)	LAB 9: Nutrition and Metabolism
13	Apr 4 – 8	Urinary System	LAB 10: Urinary System A&P
14	Apr 11 – 15	Fluid Acid Base Balance	<b>FINAL LAB EXAM</b>
	Apr 18 – 26	<b>FINAL COMPREHENSIVE EXAM</b> (Date TBA)	

(\* the midterm will be scheduled **outside of normal class time in the evening** on Friday, March 4<sup>th</sup> from 5:00-6:20 pm in F100 or F334/336)