



## COURSE OUTLINE

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.

### 1. Instructor Information

(a)	Instructor:	Dr. Larry Anthony			
(b)	Drop-In Office Hours:	Mon	10:00 AM – 10:50 AM	Wed	11:30 AM – 12:20 PM
		Tue	10:30 AM – 11:20 AM	Fri	9:30 AM – 11:20 AM
(c)	Location:	F340A			
(d)	Phone:	250-370-3388	Alternative Phone:		
(e)	Email:	anthonyl@camosun.bc.ca			
(f)	Website:	<a href="http://online.camosun.ca/">http://online.camosun.ca/</a> (D2L entry site)			

**IMPORTANT NOTE:** I understand that the scheduled times will not fit into everyone's schedules. **This should not deter you from trying to visit me in my office!** My schedule will be posted on my office door: I can be available at almost any time that I'm not already in class or lab. Simply arrange an appointment by phone or e-mail and I'll be **very pleased** to meet with you at a mutually convenient time.

### 2. Intended Learning Outcomes

(No changes are to be made to these Intended Learning Outcomes as approved by the Education Council of Camosun College.)

Upon successful completion of Biology 152 and Biology 153, you will be able to:

- use your knowledge of normal anatomy and physiology to differentiate normal from abnormal when you are doing physical assessments of clients.
- use and understand correct terminology when communicating with other members of the health care team.
- use your knowledge of anatomy and physiology as a basis for further study of pathophysiology.
- demonstrate the ability to apply knowledge of anatomy and physiology gained through laboratory activities to the clinical setting.
- help patients by explaining basic anatomy and physiology, nutrition and pharmacology in the maintenance of health and prevention of disease.

You are encouraged to **consult your instructor if you require assistance or experience difficulty** with the course. A variety of services are also available to students to assist with learning.

### 3. Required Materials

#### Text

##### Required:

Saladin, K. (2007). *Anatomy & Physiology: The Unity of Form and Function*. (4<sup>th</sup> Ed.) McGraw-Hill, New York.

Camosun College. Department of Biology. *Biology 152 Laboratory Manual*, Camosun College, 2010.

##### Optional:

Krieger, P.A. (2009). *A Visual Analogy Guide to Human Anatomy*. (2<sup>nd</sup> Ed.) Morton Publishing Company, Colorado. (This book is **not** required. Please consult your instructor if you have any questions about this text.)

#### Lecture Outlines

Lectures will be delivered in a PowerPoint format. PowerPoint slides will be made available on the Biology 230 website. These may be used or printed at the student's discretion to help follow the lectures.

#### Other Resources

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 labelled images of tissues and models examined in the lab:

website      <http://hunterp.disted.camosun.bc.ca>  
user ID:      anatomy  
password:     body123

#### Knowledge of Pre-Requisite Material

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

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

(This section can include: class hours, lab hours, out of class requirements and/or dates for quizzes, exams, lectures, labs, seminars, practicums, etc.)

#### Class Schedule:

<b>Lectures:</b>	Mon	8:30 AM – 9:50 AM
	Tue	4:00 PM – 5:20 PM
<b>Lab Section A:</b>	Tue	6:30 PM – 9:20 PM
<b>Lab Section B:</b>	Thu	5:30 PM – 8:20 PM

#### Course Content:

See Last Page

## 5. Basis of Student Assessment (Weighting)

(This section should be directly linked to the Intended Learning Outcomes.)

Assignments/labs/quizzes	15%
Midterm Lecture Exam	25%
Lab Exam I	12.5%
Lab Exam II	12.5%
Final Lecture Exam	35%

**Note: The final lecture and lab exam material is comprehensive, covering content covered throughout the entire semester.**

## 6. Grading System

(No changes are to be made to this section unless the Approved Course Description has been forwarded through the Education Council of Camosun College for approval.)

### 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. (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.)
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 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.

#### 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 lab work is 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.

#### 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

All assignments must be handed in on the scheduled date **before 5:00 PM**. Late assignments will be graded but marks equivalent to 15% of the total value of the assignment will be deducted per day past the deadline.

#### Lab Attire

Students are **required** to wear closed shoes in all lab times. Flip flops, sandals or shoes with holes are not acceptable.

The wearing of lab coats at all lab sessions is **absolutely mandatory** for both safety and professional reasons. Cloth coats are preferable but disposable ones are acceptable. If you forget your lab coat you may rent one at a cost of \$5. The money received through lab coat rental will be donated to **Spread the Net**, an organization that supplies insecticide-impregnated bed nets to help prevent the spread of malaria in Africa.

Failure to wear proper lab attire will result in the inability to enter the lab and the subsequent **loss of credit** for that lab.

### 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. 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.

### 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.

### Student Responsibilities

1. It is believed that attending and actively engaging in lecture times is in the best interests of student success. Should it be necessary to miss a lecture, however, it is the student's responsibility to catch up on anything that may have been missed (e.g. important announcement or assignments).
2. Students are expected to hand in any required assignments or reports on time. Late assignments will be penalized (see above).
3. Unless otherwise indicated by the instructor, all written work (including numerical entries in data tables) is to be submitted in word processed form. Typical exceptions include calculations (when required) or graphs, which may be submitted handwritten or hand-drawn. Electronic submissions (e.g. as e-mail attachments) will not be accepted, except where specified **by the instructor**. Failure to comply will result in late penalties (as indicated).
4. 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.
5. Students are expected to work independently on assignments and reports unless instructed that the evaluation is based on group effort and evaluation.
6. Students must know and follow all Safety Rules and Procedures. Students must sign the Safety Contract before participating in any laboratory activity. Failure to follow the Safety Rules and Procedures will result in penalties at the discretion of the instructor.
7. Eating or drinking is **strictly prohibited** and failure to comply may result in expulsion from the lab and loss of any associated lab credit. **No exceptions** will be tolerated.
8. Students must turn off cell phones and pagers during lectures, laboratory sessions and exams.

**Biology 152-X01 - W11 - Course Schedule (Note: Scheduled dates are subject to change)**  
**Topics may be added or deleted depending upon time constraints**

Wk	Day	Date	Lecture Topic	Lab	Lab Activity
1	Mon	10-Jan-11			
1	Tue	11-Jan-11			<b>LAB INTRODUCTION</b>
1	Thu	13-Jan-11			<b>LAB INTRODUCTION</b>
2	Mon	17-Jan-11	Introduction		
2	Tue	18-Jan-11	Tissues; Integumentary System	1	Safety, Anatomical Terminology, Systems Overview
2	Thu	20-Jan-11		1	Safety, Anatomical Terminology, Systems Overview
3	Mon	24-Jan-11	Tissues; Integumentary System		
3	Tue	25-Jan-11	Skeletal System	2	Introduction to Microscopy and Tissues
3	Thu	27-Jan-11		2	Introduction to Microscopy and Tissues
4	Mon	31-Jan-11	Skeletal System		
4	Tue	1-Feb-11	Neurophysiology	3	Tissues (cont'd) and Integumentary System
4	Thu	3-Feb-11		3	Tissues (cont'd) and Integumentary System
5	Mon	7-Feb-11	Neurophysiology		
5	Tue	8-Feb-11	Neurophysiology	4	Introduction to Skeletal System and Axial Skeleton
5	Thu	10-Feb-11		4	Introduction to Skeletal System and Axial Skeleton
6	Mon	14-Feb-11	Muscular System		
6	Tue	15-Feb-11	Muscular System	5	Appendicular Skeleton and Articulations
6	Thu	17-Feb-11		5	Appendicular Skeleton and Articulations
7	Mon	21-Feb-11	Muscular System		
7	Tue	22-Feb-11	Central Nervous System		
7	Thu	24-Feb-11	<b>READING BREAK</b>		NO LABS
8	Mon	28-Feb-11	Central Nervous System		
8	Tue	1-Mar-11	Central Nervous System		<b>LAB EXAM 1 (Labs 1-5)</b>
8	Thu	3-Mar-11			<b>LAB EXAM 1 (Labs 1-5)</b>
9	Mon	7-Mar-11	Peripheral Nervous System		
9	Tue	8-Mar-11	Peripheral Nervous System	6	Muscular System
9	Wed	9-Mar-11	<b>MIDTERM LECTURE EXAM</b>		<b>NOTE WEDNESDAY EVENING TIME (6:30 - 8:00)</b>
9	Thu	10-Mar-11		6	Muscular System
10	Mon	14-Mar-11	Peripheral Nervous System		<b>WITHDRAWAL DEADLINE</b>
10	Tue	15-Mar-11	Sensory Perception	7	Central Nervous System
10	Thu	17-Mar-11		7	Central Nervous System
11	Mon	21-Mar-11	Sensory Perception		
11	Tue	22-Mar-11	Sensory Perception	8, 9	Peripheral Nervous System; Eye & Ear
11	Thu	24-Mar-11		8, 9	Peripheral Nervous System; Eye & Ear
12	Mon	28-Mar-11	Endocrine System		
12	Tue	29-Mar-11	Endocrine System	10	Endocrine System
12	Thu	31-Mar-11		10	Endocrine System
13	Mon	4-Apr-11	Endocrine System		
13	Tue	5-Apr-11	Endocrine System	11	Cardiovascular Anatomy
13	Thu	7-Apr-11		11	Cardiovascular Anatomy
14	Mon	11-Apr-11	Cardiovascular System		
14	Tue	12-Apr-11	Cardiovascular System		<b>LAB EXAM 2 (Labs 1-11)</b>
14	Thu	14-Apr-11	Cardiovascular System		<b>LAB EXAM 2 (Labs 1-11)</b>
	Mon	18-Apr-11	<b>FINAL EXAM PERIOD BEGINS</b>		