



**Biology Department**  
**Biology 152 Anatomy and Physiology for Nursing**  
**Fall 2010**  
**COURSE OUTLINE**

## **INTRODUCTION**

Biology 152 is the first half of a two-semester course on human anatomy and physiology with applications to clinical nursing practice. The course includes cytology, histology and the anatomy and physiology of selected organ systems.

## **INTENDED LEARNING OUTCOMES**

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.

## **INSTRUCTOR**

Thuy Nevado    F248A                  Email: nevadot@camosun.bc.ca  
                         250-370-3433        D2L: <http://online@camosun.bc.ca>

Office Hours:    Wednesdays    noon - 1:50 in F248A  
                         Fridays              2:30 - 3:20 in F248A

Tutorial:            Thursdays      2:30 - 3:20 in WT102 starting Sept 16  
                         Fridays              noon - 12:50 in F224

## **LEARNING SUPPORT AND SERVICES FOR STUDENTS**

Learning Skills offers assistance to learners in a variety of ways. See:

<http://www.camosun.bc.ca/services/learning-skills/>

## TEXTBOOKS – REQUIRED:

Saladin, K. (2010). *Anatomy & Physiology: The Unity of Form and Function*. (5<sup>th</sup> Ed.) McGraw – Hill, New York.

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

## TEXTBOOKS – 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.)

## Laboratory requirements

1. 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.**
2. Binder for laboratory manual, notes and assignments.

## 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, 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.

## EVALUATION

Assignments, quizzes. Etc. ....	15%
Midterm lecture exam ( <b>Oct 21, 5:30-7:00 PM</b> ).....	25%
Lab exam #1 .....	10%
Lab exam #2 .....	15%
Final comprehensive theory exam .....	35%

- 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            <http://hunterp.disted.camosun.bc.ca>
- The final lecture and lab exams are 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. 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 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.**

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

The following percentage conversions to letter grades will be used for this course:

A+	= 90 - 100%	B	= 73 - 76%	D	= 50 - 59%
A	= 85 - 89%	B-	= 70 - 72%	F	= 0 - 49%
A-	= 80 - 84%	C+	= 65 - 69%		
B+	= 77 - 79%	C	= 60 - 64%		

## 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. Students are expected to hand in any required reports 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 arranging with a classmate to obtain 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. If a student is unable to take the final laboratory examination and provides acceptable documentation, an oral laboratory examination may be given.
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 reports 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.

## 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.

## ACADEMIC CONDUCT POLICY

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.

<http://www.camosun.bc.ca/policies/Education-Academic/E-2-Student-Services-&-Support/E-2.5.pdf>



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**COURSE SCHEDULE**

<b>Week</b>	<b>Dates</b>	<b>Lecture Topics</b> (approximate schedule)	<b>Lab Activities</b>
1	Sept 6 Sept 7 – 10	<b>LABOUR DAY (College closed)</b> Homeostasis, Cells and Membrane Transport	Introduction to Biol 152
2	Sept 13 – 17	Tissues Integumentary System	<b>LAB 1:</b> Lab Safety, Anatomical Terminology and Systems Overview
3	Sept 20 – 24	Integumentary System (cont'd) Skeletal System	<b>LAB 2:</b> Introduction to Microscopy and Tissues
4	Sept 27 – Oct 1	Skeletal System (cont'd) Muscular System	<b>LAB 3:</b> Tissues (cont'd) and Integumentary System
5	Oct 4 – 8	Muscular System (cont'd)	<b>LAB 4:</b> Intro to Skeletal System and Axial Skeleton
6	Oct 11 (Mon) Oct 12 – 15	<b>THANKSGIVING DAY (College closed)</b> Intro to Nervous System Neural Tissue & Action Potentials	<b>LAB 5:</b> Appendicular Skeleton and Articulations <b>NOTE:</b> students in a Monday lab section must attend another lab section this week.
7	Oct 18 – 22	Central Nervous System <b>MIDTERM EXAM (Thursday, Oct 21)</b>	<b>LAB 6:</b> Muscular System
8	Oct 25 – 29	Central Nervous System (cont'd) Peripheral Nervous System	<b>LAB EXAM #1 (Labs 1 – 6)</b> (in your usual lab time, location)
9	Nov 1 – 5	Peripheral Nervous System (cont'd) Sensory Perception	<b>LAB 7:</b> Central Nervous System
10	Nov 8 – 12 Nov 11 (Thurs)	Sensory Perception (cont'd) <b>REMEMBRANCE DAY</b> <b>(College closed on Thursday)</b>	<b>NO LABS THIS WEEK</b>
11	Nov 15 – 19	Endocrine System	<b>LAB 8:</b> Peripheral Nervous System and <b>LAB 9A:</b> Anatomy of Eye and Ear, Sensory Perception (Part A: Ear Anatomy and Hearing)
12	Nov 22 – 26	Endocrine System	<b>LAB 9B:</b> Anatomy of Eye and Ear, Sensory Perception (continued from last week) and <b>LAB 10:</b> Endocrine System
13	Nov 29 – Dec 3	Cardiovascular System	<b>LAB 11:</b> Cardiovascular Anatomy
14	Dec 6 – 10	Cardiovascular System	<b>LAB EXAM #2 (Labs 1 – 11)</b> (in your usual lab time, location)
	Dec 13 – 18, & Dec 20, 21	<b>FINAL EXAM</b> <b>(date and time scheduled by registrar)</b>	