



Biology Department
Biology 152 Anatomy and Physiology for Nursing
Fall 2012
COURSE OUTLINE (Tom's Section)

INTRODUCTION

This course introduces human anatomy and physiology of selected organ systems, with applications appropriate to nursing practice. Laboratory exercises involve histology, organ dissection and the study of models. *Prior completion of BIOL 104 or 126 is an asset.*

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.*
- *use and understand correct terminology as it relates to the integumentary, muscular, skeletal, nervous, endocrine and cardiovascular systems.*
- *use your knowledge of anatomy and physiology as a basis for further study of pathophysiology.*
- *apply knowledge of anatomy and physiology gained through laboratory activities.*
- *use concepts related to basic anatomy, physiology and histology, in order to explain 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.

1. Instructor Information

Instructor: Tom Mace
Office hrs: 1:00 – 2:00; or any other time when Tom is in his office.
Location: F248B
Phone: 250- 370-3436
E-mail: mace@camosun.bc.ca

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:

Martini and Ober. (2011). *Visual Anatomy and Physiology*, Pearson Education Inc. San Francisco.

Department of Biology. (2012). *Biology 152 Anatomy & Physiology I Laboratory Manual*, Camosun College, Victoria.

TEXTBOOKS – OPTIONAL:

Krieger, P.A. (2009). *A Visual Analogy Guide to Human Anatomy*. (2nd 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, prelabs	15%
Midterm lecture exam (Fri, Oct 26, 5:30-6:50 PM).....	25%
Lab exam #1	10%
Lab exam #2 (comprehensive).....	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. 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 are requested to 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

Week	Dates	Lecture Topics (approximate schedule)	Lab Activities
1	Sept 3 Sept 4-7	LABOUR DAY (College closed) Homeostasis Intro to Nervous System	Introduction to Bio 152
2	Sept 10-14	Central Nervous System	LAB 1: Cells, Membranes, Transport Intro to Microscopes and Tissues
3	Sept 17-21	Peripheral Nervous System	LAB 2: Lab Safety, Anatomical Terminology and Systems Overview
4	Sept 24-28	Neural Tissue Action Potentials	LAB 3: Neural tissues and Central Nervous System
5	Oct 1-5	Senses	LAB 4: Peripheral Nervous System
6	Oct 8 (Mon) Oct 9-12	THANKSGIVING DAY (College closed) Connective tissues Skeletal Bone anatomy	LAB 5: Anatomy of Eye and Ear, Sensory Perception
7	Oct 15-19	Bone development & Joints	LAB EXAM #1 (Labs 1 – 5) (in your usual lab time, location)
8	Oct 22-26 Oct 26	Muscle tissue Muscle physiology MIDTERM (5:30-6:50pm)	LAB 6: Bone & Cartilage Axial skeleton
9	Oct 29 – Nov 2	Whole muscle A&P Epithelial tissues	LAB 7: Connective tissue proper Appendicular skeleton
10	Nov 5-9	Integument	LAB 8: Muscles
11	Nov 12 (Mon) Nov 13 – 16	REMEMBRANCE DAY(College closed) Endocrine System	LAB 9: Epithelial tissues and Integument
12	Nov 19-23	Endocrine System Cardio anatomy	LAB 10: Endocrine System
13	Nov 26-30	Cardio physiology	LAB 11: Cardio Anatomy and ECG
14	Dec 3-7	Cardio physiology	LAB EXAM #2 (Labs 1 – 11) (in your usual lab time, location)
	Dec 12 – 17, & Dec 19, 20	FINAL EXAM (date and time scheduled by registrar)	