

School of Arts & Science
Biology Department
Biology 152-X03, Anatomy and Physiology for Nursing
Fall 2004

COURSE OUTLINE

Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for your records.

1. Instructor Information

- (a) Don MacRae
- (b) Office hours: TBA
- (c) Location: F 346A
- (d) Phone: 370-3437
- (e) e-mail: dmacrae@camosun.bc.ca

2. Intended Learning Outcomes

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

- use knowledge of normal anatomy and physiology to differentiate normal from abnormal when doing physical assessments of clients
- use and understand correct terminology when communicating with clients and other members of the health care team
- use 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 clients by explaining basic anatomy and physiology, nutrition and pharmacology in the maintenance of health and the prevention of disease

3. Required Materials

a) Texts

*Martini, F. (2004). *Fundamentals of Anatomy and Physiology*. (6th Ed.) Benjamin Cummings, San Francisco.

Camosun College, Department of Biology. *Biology 152: Course Outline, Learning Objectives and Laboratory Directions* — Fall 2004.

**Dugas, B., Esson, L. & Ronaldson, S. (1999). *Nursing foundations: A Canadian Perspective*. (2nd Ed.) Scarborough, Ontario: Prentice Hall Canada Inc.

**Estes, M. (2002). *Clinical companion for health assessment and physical examination*. (2nd Ed) Toronto: Delmar Publishers.

**Eisenhauer, L., Wemett, L., Spencer, R., & Burgan, F. (1998). *Clinical pharmacology & nursing management*. (5th Ed.) New York: Lippincott.

b) Other materials

Lab coat. Students are expected to wear a lab coat during most labs. Cloth coats are referable but disposable coats are acceptable and can be used for the two semesters of biology.

Optional materials:

*Martini, F. and Welch, K. (2004). *Applications Manual: Fundamentals of Anatomy and Physiology*. (6th Ed.) Benjamin Cummings, San Francisco.

*Martini, F. (2004). *Martini's Atlas of the Human Body*. Benjamin Cummings, San Francisco.

*Martini, F. (2004). *Interactive Physiology*, 8 System Suite, Benjamin Cummings, San Francisco.

* Packaged together. Optional materials included at same cost as text book alone.

**Also required for and used in NURS courses.

4. Course Schedule

Week	Dates	Lecture Topics	Lab Activities
1	Sept 6 Sept 7-10	LABOUR DAY Homeostasis, cells and membrane transport	COLLEGE CLOSED LAB 1: Lab Safety, Anatomical Terminology and Systems Overview
2	Sept 13-17	Tissues <i>Nursing – Intro to Nursing Applications</i>	LAB 2: Introduction to Microscopy and Tissues
	Sept 20-24	Integumentary System <i>Nursing – Skin integrity</i>	LAB 3: Tissues (cont'd) and Integumentary System
4	Sept 27- Oct 1	Skeletal System	LAB 4: Intro to Skeletal System and Axial Skeleton
5	Oct 4-8	Muscular System	LAB 5: Appendicular Skeleton and Articulations
6	Oct 11 Oct 12-15	THANKSGIVING DAY <i>Nursing – Movement and exercise</i>	LAB EXAM #1
7	Oct 18-22	MIDTERM EXAM Neural Tissue & Action potential	LAB 6: Muscular System
8	Oct 25-29	Central Nervous System	LAB 7: Central Nervous System
9	Nov 1-5	Peripheral Nervous system <i>Nursing – Sleep</i>	LAB 8: Peripheral Nervous System
10	Nov 11 Nov 8-12	REMEMBRANCE DAY Sensory Perception	NO LAB
11	Nov 15-19	Sensory Perception <i>Nursing – cognition and perception</i>	LAB 9: Anatomy of Eye and Ear Sensory perception
12	Nov 22-26	Endocrine System	LAB 10: Endocrine System
13	Nov 29 – Dec 3	Cardiovascular System <i>Nursing – Cardiovascular 1</i>	LAB EXAM #2
14	Dec 6-10	Cardiovascular System	LAB 11: Cardiovascular Anatomy
15/16	Dec 13-21	FINAL EXAM (Date TBA)	

5. Basis of Student Assessment (Weighting)

Assignments, quizzes.....	10%
Midterm Lab Exam	10%
Final Lab Exam	15%
Midterm Lecture Exam.....	30%
Final Lecture Exam	35%

- a) The lecture exams will cover the topics that have been discussed during lecture time. Most of these topics have also been reinforced during laboratory time.
- b) Laboratory exams include a practical component; for example, the identification of structures from anatomical models and images.

- c) Both Final Lecture and final Lab exams are comprehensive – cover the whole semester
- d) Lecture exam will include both the nursing and biology components of the course.
- e) Exams will be held at times indicated on the Course Schedule. If a student is unable to attend either the lab or the lecture midterm exam because of illness or emergency they should notify the instructor of the situation **in advance** of the examination. Upon receiving acceptable supporting documentation, the following accommodations will be available:
 - 1) if the Midterm Lab Exam is missed, the Final Lab Exam will be counted towards 25% of the final grade
 - 2) if the Midterm Lecture Exam is missed, a make-up Lecture Exam will be scheduled during week 13. This exam will cover all topics up to and including week 12.

6. Grading System

The following percentage conversion to letter grade will be used:

A+ = 95 - 100%	B = 75 - 79%	D = 50 - 59%
A = 90 - 94%	B- = 70 - 74%	F = 0.0 - 49%
A- = 85 - 89%	C+ = 65 - 69%	
B+ = 80 - 84%	C = 60 - 64%	

7. Recommended Materials or Services to Assist Students to Succeed Throughout the Course

It is important that you are familiar with material that has already been covered in the prerequisite courses, Biology 12 or 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, as it too is testable.

LEARNING SUPPORT AND SERVICES FOR STUDENTS

Learning Skills offers assistance to learners in a variety of ways.
<http://www.camosun.bc.ca/students/learningskills/index.htm>

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/E-2.5-Student-Conduct.pdf>