



**School of Arts & Science
Biology Department**

**Biology 153 Anatomy and Physiology for Nursing
Winter 2008**

COURSE OUTLINE

INTRODUCTION

Biology 153 is the second half of a two-semester course on the anatomy and physiology of the human body with applications to clinical nursing practice. The course traces anatomy and physiology of cells, tissues and selected organ systems. Themes, which will be integrated in the course, include physical assessment, diagnostic testing, basic pharmacology, nutrition and development.

INSTRUCTOR

Biology

Thuy Nevada F248A Email: nguyen@camosun.bc.ca
 370-3433

Office Hours: Mondays and Wednesdays 11:30am-12:20pm,
 Thursdays 11:20am-noon

LEARNING OUTCOMES

Upon successful completion of 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 you are communicating with other members of the health care team
- use your knowledge of anatomy and physiology as a basis for further study of pathophysiology
- help clients by explaining basic anatomy and physiology, nutrition and pharmacology in the maintenance of health and prevention of disease.

Comprehension of material covered in the prerequisite courses, Biology 12 or 080, Biology 152 and Chemistry 11 is necessary in order to understand concepts taught in Biology 153. Students are expected to review this prerequisite material, if necessary, as it too is testable.

TEXTBOOKS - Required

Martini, F. (2006). *Fundamentals of Anatomy and Physiology*. (7th Ed.) Benjamin Cummings, San Francisco.

Martini, F. and Welch, K. (2006). *Applications Manual: Fundamentals of Anatomy and Physiology*. Benjamin Cummings, San Francisco.

Martini, F. (2006). *Martini's Atlas of the Human Body*. Benjamin Cummings, San Francisco.

Camosun College, Department of Biology. *Biology 153: Laboratory Manual (W2007 or 2008)*

TEXTBOOKS, Optional

Seiger, C. (2004). *Study Guide: Fundamentals of anatomy and physiology*. (7th Ed.) Benjamin Cummings, San Francisco.

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

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

LAB REQUIREMENTS

1. Lab coat. Disposable lab coats are acceptable.
2. Binder for laboratory modules and assignments with lined and blank loose-leaf paper.

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/>

EVALUATION

There will be two theory examinations during the term, and two laboratory examinations. Examination questions in Biology 153 will incorporate critical thinking and problem-solving. Marks may be awarded for assignments, laboratory reports and class presentations.

Assignments	15%
Midterm Lecture exam.....	25%
Lab Exam I	12.5%
Lab Exam II	12.5%
Final Comprehensive Theory Exam.....	35%
TOTAL	100%

Examinations will be given at times indicated on the Course Schedule. Assignments will be due at times as announced in class. **There will be only ONE makeup examination and it will only be granted for genuine emergencies, supported by documentation acceptable to the department.** In case of illness or emergency, the student must notify the instructor **in advance** of the examination in order for alternate arrangements to be made. **Note: Vacation plans do not constitute an emergency.** Please see STUDENT RESPONSIBILITIES

The following grades will be applied to examinations and other forms of evaluation in 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>

BIOLOGY 153 COURSE SCHEDULE WINTER 2007

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

Week	Date	Lecture	Lab Activity
1	Jan 7-12	Cardiovascular System (Continued from Biol 152)	LAB 1: Lab Safety Cardiovascular blood
2	Jan 14-18	Cardiovascular System	LAB 2: Cardiovascular ECG
3	Jan 21-25	Lymphatic System / Immunology	LAB 3: Lymphatic System
4	Jan 28-Feb 1	Microbiology	LAB 4: Microbiology 1
5	Feb 4-8	Microbiology	LAB 5: Microbiology 2
6	Feb 11-13	Digestive System	NO LABS
	Feb 14-15	READING BREAK	
7	Feb 18-22	Digestive System	LAB EXAM #1
8	Feb 26-29	Digestion Metabolism	LAB 6: Digestive System and Nutrition
9	Mar 3-7	MIDTERM EXAM * Respiratory System	LAB 7: Respiratory System Anatomy
10	Mar 10-14	Respiratory System	LAB 8 : Respiratory Physiology
11	Mar 17-20	Urinary System	NO LABS
	Mar 21	Good Friday – No Classes	
12	Mar 24	Easter Monday – No Classes	LAB 9: Urinary System/Urinalysis
	Mar 25-28	Urinary System	
13	Mar 31-Apr 4	Urinary System Reproductive System	LAB 10: Reproductive System
14	April 7-11	Reproductive System	LAB EXAM #2
	April 14-22	FINAL COMPREHENSIVE EXAM (Date TBA) College exam period	

(* the midterm will be scheduled **outside of normal class time in the evening**; time and location to be confirmed by instructor)