



Biology Department
Biology 150 Human Anatomy
Fall 2007
COURSE OUTLINE

CALENDAR DESCRIPTION

Biology 150 provides an introduction to structural and functional relationships within the 11 systems of the human body. Using a lab and lecture based format, a combination of slides, models, photographs, diagrams and organ dissections is used to study both gross and microscopic human anatomy. Anatomical and physiological terminology is stressed, with a particular emphasis on its relevance to human health sciences.

PREREQUISITES

English 12, Biology 12 or equivalent (with a minimum grade of C)

(NOTE: Chemistry 11 is a prerequisite for Biology 151; if you are planning to complete both anatomy and physiology then you must have chemistry as well!)

1. Instructor Information

Peggy Hunter (Biology)	office	F248C
	phone	370-3427
	email	hunterp@camosun.bc.ca
	website	http://hunterp.disted.camosun.bc.ca
		user ID: <i>anatomy</i> password: <i>body123</i>

2. Required Materials

TEXTBOOKS

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

Camosun College, Department of Biology. *Biology 150 (sec 03) Laboratory Manual*, Camosun College, 2008.

3. Course Particulars

Class hours:	<i>3 hrs lab/week 3 hrs lecture/week</i>
Out of class:	6 hrs/week (minimum!)
Credits:	<i>4 credits</i>

4. Intended Learning Outcomes

1. Describe, using anatomical terminology, the human body at the tissue, organ and organ system levels.
2. Locate and identify gross and microscopic anatomical structures associated with the 11 human organ systems in slides, models, photographs, diagrams and dissections.
3. Visualize and interpret the relationships between anatomical structures in sectional planes of the human body, and describe these relationships using regional and directional terminology.
4. Relate anatomical structures to their basic functions and predict how changes in one would logically be expected to result in changes in the other.
5. Locate and identify surface anatomical structures by palpation.
6. Define anatomical and physiological terms, and apply this terminology in the context of human health science.

5. EVALUATION

Assignments, lab quizzes..	30%
Midterm I.....	20%
Midterm II	20%
Final comprehensive theory exam	30%

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%		

- *laboratory quizzes include a practical component; for example, the identification of structures from anatomical models, dissections and slides*
- *the instructor's web site may be useful in reviewing lab material as it provides labeled images of tissues and models examined in the lab*
- *the final exam is comprehensive*

IMPORTANT TO NOTE!

*Examinations and quizzes must be written as scheduled. Exceptions will be made at the discretion of the instructor and only if **documentation of the illness or emergency** acceptable to the department (a valid written medical excuse supplied by a physician) is received. The student must notify the instructor **in advance** of the examination*

Vacation plans and scheduled flights do not constitute an emergency.

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. This information is necessary in order to understand concepts taught in Biology 150. 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.

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** or **ileum** and **ilium**)

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.

7. Student Responsibilities

1. *Students are expected to hand in any required assignments on time.*
2. *Late assignments will receive a penalty of 10% per day for each weekday. If a report is due on Friday, a penalty of 10% will be applied to Saturday/Sunday period.*
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 and quizzes must be written as scheduled. Exceptions will be made at the discretion of the instructor and only if **documentation of the illness or emergency** acceptable to the department (a valid written medical excuse supplied by a physician) is received. The student must notify the instructor **in advance** of the examination. Vacation plans do not constitute emergencies.*
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.*
6. *Students are expected to work independently on reports unless instructed that the evaluation is based on group effort and evaluation. Please see ACADEMIC MISCONDUCT.*

<p>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, in the college calendar (p 38/39), and on the College web site in the Policy Section.</p>
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COURSE SCHEDULE - FALL 2007

The following is a **tentative** schedule and will remain flexible as the semester proceeds. Whenever possible, lab material will be integrated into lectures.

Refer to the **Course Objectives in your lab manual** for specific learning outcomes.

week	dates	lectures	reading	labs
1	Sept 4-7	Introduction - cells, macromolecules (self review) - body planes, directional terms, cavities - introduction to systems Tissues	Ch 1-3 Ch 4	NO LABS (lab 1 material to be covered in lecture this week)
2	Sept 10-14	Tissues (cont'd) Integumentary system / Exocrine glands - structure/function/derivatives	Ch 5	Lab 2 - lab safety - cell structure - microscopy - epithelial tissues
3	Sept 17-21	Skeletal system - bone histology/structure - classification of bones - bone markings	Ch 6	Lab 3 - tissues cont'd - integumentary system
4	Sept 24-28	Skeletal system (cont'd) - axial / appendicular Articulations - classification - synovial joint structure - movements	Ch 7/8 Ch 9	Lab 4 - bone structure - axial skeleton
5	Oct 1-5	Muscular system - muscle structure and micro-anatomy - organization of fibers - muscle terminology	Ch 10/11	Lab 5 - appendicular skeleton - articulations
6	Oct 8	THANKSGIVING		NO LABS
	Oct. 10	LECTURE MIDTERM 1 (20%)		
	Oct 12	Nervous system - neural tissue - organization of n.s.	Ch 12	
7	Oct 15-19	Nervous system - central nervous system	Ch 13/14	Lab 6 - muscle tissue - major muscles and their actions

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week	date	lectures	reading	labs
8	Oct 22-26	Nervous system (cont'd) - peripheral nervous system - autonomic nervous system	Ch 15 Ch 16	Lab 7 - central nervous system - brain and spinal cord
9	Oct 29 - Nov 2	Special senses - eye /ear Endocrine system - glands / hormones	Ch 17 Ch 18	Lab 8 - peripheral nervous system
10	Nov 7 Nov 9	LECTURE MIDTERM 2 (20%) Cardiovascular system - blood - heart	Ch 18 Ch 19/20	Lab 9 - eye and ear - endocrine glands
11	Nov 12 Nov 14-16	REMEMBRANCE DAY Cardiovascular system (cont'd) - arteries / veins / capillaries Lymphatic system	 Ch 21 Ch 22	NO LABS
12	Nov 19-23	Respiratory system - structures and functions related to gas exchange Digestive system - structures and functions related to digestion	Ch 23 Ch 24	Lab 10 - blood smears - heart - arteries / veins / capillaries - lymphatic system
13	Nov 26-30	Digestive system (con't) Urinary system - structures and functions related to urine formation and excretion	 Ch 26	Lab 11 - respiratory system - digestive system
14	Dec 3-7	Reproductive system - male and female reproductive structures - ovarian and testicular histology REVIEW (if time allows!)	Ch 28	Lab 12 - urinary system - reproductive system
15	Dec 10-18	FINAL EXAM WEEK (30%) - scheduled by registrar		