CAMOSUN COLLEGE
School of Arts & Science
Biology Department

BIOL 141: Anatomy for Sport Education
Fall 2007

COURSE OUTLINE

CALENDAR DESCRIPTION

This course provides an introduction to structural and functional relationships within the 11 systems of the human body. Emphasis is given to major systems and organs related to sport performance and health. Anatomical terminology is stressed, with a particular emphasis on its relevance to exercise and health. This course is designed for students in the Exercise and Wellness, Sport Management and Athlete and Coach Development Diploma programs.

PREREQUISITES

Grade of C+ or better in English 12, Grade 11 level science, Math 11

COREQUISITES

Biology 141A (Anatomy labs for Sport Education)

1. Instructor Information

Instructor: Peggy Hunter
Office hrs: TBA
Location: F248C
Phone: 370-3427
E-mail: hunterp@camosun.bc.ca
Web site http://hunterp.disted.camosun.bc.ca (User ID → *anatomy* password → *body123*)

2. Required Materials

Text: *Essentials of Anatomy and Physiology (4th edition),* Martini, F. and Bartholomew, E. (2007).

3. Course Particulars

Class hours: 3 hrs lecture/week

Out of class: 6 hrs/week minimum
Credits: 3 credits

4. Intended Learning Outcomes

- *Describe, using anatomical terminology, the human body at the tissue, organ and organ system levels*
- *Locate and identify anatomical structures associated with the 11 human organ systems in models, photographs, and diagrams*
- *Visualize and interpret the relationships between anatomical structures and describe these relationships using regional and directional terminology*
- *Relate anatomical structures to their basic functions*
- *Define anatomical and physiological terms, and apply this terminology in the context of human health and exercise science*

5. Basis of Student Assessment

Quizzes and assignments	15%
Lecture midterm 1	25%
Lecture midterm 2	25%
Final	35%
	100%

6. Grading System

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%		

7. Learning support and services for students

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

http://www.camosun.bc.ca/learning-skills/

7. Student Responsibilities

1. *Students are expected to hand in any required assignments on time. Assignments are due at the **beginning** of the class period on the due date. Assignments not handed in at the beginning of class will be considered late, for which there is a 10% penalty/day.*

2. *Attendance correlates highly with academic success. If unable to attend a lecture or lab session, the student is responsible for arranging with a classmate to obtain information such as notes, handouts and announcements.*

3. *Examinations must be written as scheduled except in the case of illness or emergency. The student must notify the instructor **in advance** of the examination. Documentation acceptable to your instructor is required to schedule a make-up exam. **Work schedules, and vacation or travel plans do not constitute an emergency and exams will not be rescheduled.***

4. *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.*

5. *Quizzes will be written at the beginning of class; if you are late for class you will not be allowed to write the quiz*

6. *Students are expected to work independently on assignments unless instructed that the evaluation is based on group effort. Please see ACADEMIC MISCONDUCT.*

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, and in the **Camosun calendar p 36-38**

7. 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.

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 3-7	**Introduction** (self review) - levels of organization - macromolecules (self review) - cells (self review) **Tissues**	**Ch 1-3** **Ch 4**	**Lab 1** - body planes, directional terms, cavities - introduction to systems
2	Sept 10-14	**Tissues** (cont'd) **Integumentary system / Exocrine glands** - structure/function/derivatives	**Ch 5**	**Lab 2** - cell structure - microscopy - tissues (intro)
3	Sept 17-21	**Skeletal system** - overview, function, bone growth - 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** **Ch 6**	**Lab 4** - bone structure - axial skeleton
5	Oct 1-5	**Muscular system** - muscle structure and micro-anatomy - organization of fibers - muscle terminology	**Ch 7**	**Lab 5** - appendicular skeleton - articulations (joints, fascia, bursae, ligaments)
6	Oct. 8 Oct 9 Oct 11	**THANKSGIVING** **LECTURE MIDTERM 1 (25%)** **Nervous system** - neural tissue - overview	**Ch 8**	**Lab 6** - muscle tissue - major muscles and their actions
7	Oct 15-19	**Nervous system** - central nervous system	**Ch 8**	**LAB EXAM 1** (Labs 1-6)

week	date	lectures	reading	labs
8	Oct 22-26	**Nervous system** (cont'd) - peripheral nervous system - autonomic nervous system	**Ch 9**	**Lab 7** - central nervous system - brain and spinal cord
9	Oct 29 – Nov 2	**Special senses** - eye /ear **Endocrine system** - glands / hormones	**Ch 9** **Ch 10**	**Lab 8** - peripheral nervous system
10	Nov 6 Nov 8	**LECTURE MIDTERM 2 (25%)** **Cardiovascular system** - blood - heart	 **Ch 12/13**	**Lab 9** - eye and ear - endocrine glands
11	Nov 12 Nov 13-16	**REMEMBRANCE DAY** **Cardiovascular system** (cont'd) - arteries / veins / capillaries **Lymphatic system**	 **Ch 13** **Ch 14**	 **Lab 10** - blood smears - heart - arteries / veins / capillaries - lymphatic system
12	Nov 19-23	**Respiratory system** - structures and functions related to gas exchange **Digestive system** - structures and functions related to digestion	**Ch 15** **Ch 16**	**Lab 11** - respiratory system - digestive system
13	Nov 26-30	**Digestive system (con't)** **Urinary system** - structures and functions related to urine formation and excretion	**Ch 18**	**Lab 12** - urinary system - reproductive system
14	Dec 3-7	**Reproductive system** - male and female reproductive structures - ovarian and testicular histology	**Ch 19**	**LAB EXAM** (Labs 7-12)
15	Dec 10-18	**FINAL EXAM (35%)** - scheduled by registrar **(do not make any travel plans until after the 18^{t})**		