

## BIOLOGY 260 HUMAN PHYSIOLOGY COURSE SYLLABUS Fall 2012

### COURSE INFORMATION

Credits: 5  
Class Times: MW 11:10 - 2:00  
Location: Bldg. 16, Room 5  
Web Site: <http://www.masteringaandp.com>  
Course ID: MAPHIRZEL25063

### LECTURE INSTRUCTOR INFORMATION

Professor: Doug Hirzel  
Office: 18-214  
Mailbox: 18-109  
Phone: 306-3284  
E-Mail: [hirzel@smccd.edu](mailto:hirzel@smccd.edu)  
Office Hours: TBA

### COURSE LEARNING OUTCOMES

Upon completion of this course students will be able to:

- Explain the basis of membrane potentials and their significance to physiologic control systems.
- Describe the coordinated responses of physiologic systems to maintain homeostasis and to regulate change and growth.
- Propose and/or execute laboratory experiments in physiology. Analyze, interpret and effectively communicate results from these experiments.
- Research, summarize and cite articles from peer-reviewed scientific literature.

### COURSE EXPECTATIONS

Biology 260 is a "full-contact" course that will require considerable investment and active participation. It is expected that you will come to class having previewed/read the assigned textbook pages. Be ready to ask for clarification or explanation of the material that you have read. Expect to participate in class, to summarize concepts, to explain processes to your classmates, and to apply what you've learned.

Weekly time investment:

Task:	Hours/week
Lecture – on campus	3
Lab – on campus	3
Lab – online	3
Homework, reading, and studying (estimated)	6

### REQUIRED RESOURCES

#### **Required texts for purchase**

- *Human Physiology: An Integrated Approach* – 6<sup>th</sup> Edition by Silverthorn, (Pearson Publishing)
  - Please note that a subscription to Mastering A&P is also required for this course. This product can be purchased separately (\$49) but may be included as a complementary copy with the purchase of a new book.
  - The publisher of this textbook has made a "Flex Text" version of the book available at the college bookstore for a significant reduction in price. This edition is identical to the Sixth Ed., except that it is unbound. Purchasing this flex text will save you money, but will not allow you to resell to the bookstore at the end of the semester.

#### **Required online software**

A subscription to *Mastering A&P for Human Physiology* by Silverthorn is required. Activities completed online through this website will contribute to your grade.

If you purchased a new textbook...

- With the purchase of a new copy of the course textbook you receive a complimentary access code to Mastering A&P. Just go to <http://www.masteringaandp.com>, click the "Student" button in the "Register" box, click on the button "Yes I have an access code" and follow the instructions for

setting up a Pearson user account; when prompted, enter the access code included in your textbook.

If you purchased a used textbook or rented a textbook...

- With used or rental copies of the course textbook, you will need to purchase a subscription to Mastering A&P for \$48.50 by visiting <http://www.masteringaandp.com>. Click on the "Student" button in the "Register" box, click on the button "No I need to purchase online access now" and select the 6<sup>th</sup> edition of Silverthorn's textbook. Follow the instructions to purchase a subscription without the eText.

**Internet access**

- Free computer access is provided by the Learning Center (Bldg 9 second floor) which is open M-Th 8 am - 9 pm, and F 8-3. Computers are also available in the Library (Bldg 9 third floor) which is open M-Th 8 am – 9 pm, F 8-3, Sat 10-2.

**REQUIRED WORK & GRADING POLICIES**

**Lab Activities**

Physiology is about dynamic processes. It is virtually impossible to understand physiology without observing these processes in action. Therefore, we will be attempting a variety of experiments this semester, many which involve using ourselves as "guinea pigs". In the midst of these experiences you must remember that good science is just as much about asking the right questions, testing and observing, as it is about finding the "right answers". That is, you should be learning from the process as well as from the results.

Throughout the semester you will be conducting online activities (tutorials and animal research simulations) as well as in-class activities (aka "wet-labs"). The online activities use the *Interactive Physiology* and *PhysioEx* learning systems provided in *Mastering A&P*. These activities are to be completed individually and will contribute to your lab grade. The in-class activities involve testing physiologic responses of your peers under a variety of test conditions. Reports of your results will be completed and turned in by teams of approximately 3 students. Your team will download electronic templates (Word format), complete the reports, and submit the final document.

Late reports will be accepted, but with a penalty. Your grade for the assignment will decrease by 2% each day it is late. This means that you will lose 10%, or a full grade, for each week the assignment is late.

**Lecture Homework**

Students get much more out of lecture if they come to class prepared. To encourage such preparation, there will be very short online activities that will ask you to become familiar with the relevant textbook chapters.

**Lecture Quizzes**

There are scheduled lecture quizzes that occur before each lecture exam. Each quiz is completed online at the course website during a scheduled period of days. Once you begin a quiz, you will have a specified time limit for completing it. It is expected that you will not collaborate with other students on these quizzes and will complete them in accordance with the College's Academic Integrity policy.

If you encounter a technical problem while taking a quiz, you must immediately notify your lecture instructor by email or phone with the time, date and nature of the problem.

**Lecture Exams**

There will be a total of 3 non-cumulative lecture exams; the third exam is scheduled during finals week. Although none of the tests is cumulative, physiologic systems are inter-related and you will need to recall facts and processes from previous exams. Lecture exams consist of multiple choice and problem solving questions that are relevant to lecture material. The multiple choice portion of these exams will require the use of a 50 question red colored ParScore™ form which you must purchase from the campus bookstore.

An exam may be taken at a later date, with penalty, at the discretion of the instructor and under most conditions, must be arranged prior to the student's absence. Your grade for the exam will decrease by 2% each working day (M-F) the exam is late and must be completed within 1 week of the originally scheduled date.

Examinations remain in the instructor's possession. Students may review the exams at any time during the semester by coming to office hours or by appointment. If you feel your exam has been improperly graded, you must provide a written justification for the points in dispute and I will be happy to re-evaluate your score. All exams are destroyed one month after the end of the semester.

**WARNING AND ADVICE:** "Knowing the notes cold" (i.e., memorizing all the class material) typically will result in a grade of C in this course. You must thoroughly understand the material, be able to explain it to someone else, and apply the cause-and-effect relationships in novel ways. Thus, to succeed in this course you will find it necessary to keep up with the material and explain it verbally and in writing to your classmates. "Cramming" the material will result in a poor performance.

### **Grading Scheme**

The grading system for the course is as follows: A 90-100%, B 80-89%, C 70-79%, D 60-69%, and F below 60%. Scores are not curved in this course and extra credit is not available.

In order to pass the class you must earn at least 60% of the cumulative Exam points. Students who fail to do so will not be allowed to pass the course regardless of their scores on quizzes and lab reports.

The following distribution is tentative and subject to change if circumstances warrant in order to provide a more accurate representation of the work actually assigned during the semester.

<u>Category</u>	<u>% of Final Grade</u>
Lab Assignments & Reports ( <b>LB</b> )	35
Lecture Quizzes & Homework ( <b>QU</b> )	10
Exams ( <b>EX</b> )	55

You may check your scores at any time during the semester by visiting the course web site. The final grade (**FG**) is calculated as follows:

$$\mathbf{FG} = 0.35\mathbf{LB} + 0.10\mathbf{QU} + 0.55\mathbf{EX}$$

### **Failing Grades**

Please know that I DO want you to succeed in this course. Therefore, if at any time during the semester you receive a poor score (<70%) on an assignment or exam, you should meet with me (preferably within 1 week). In our meeting we will try to discover what went wrong and what we can do to help you improve. Please, don't give up without a fight! Give me a chance to help.

## ADDITIONAL POLICIES

### **Attendance**

Attendance is required and you are expected to arrive on time. During the first two weeks of the course, failure to attend any class meeting time will result in the student being dropped from the course. After the second week, three or more consecutive unexcused absences may result in the student being dropped from the course.

### **Withdrawal from the Course**

While I do not like to see any of my students withdraw from the course, I do realize that legitimate reasons for not completing the course do arise throughout the semester. In all cases, the College requires all withdrawals to be filed no later than November 16. After this date, according to policy, if you

do not complete the course you will receive an F on your record. It is the student's responsibility to file for a W!

#### **Academic Integrity**

Academic dishonesty consists of copying from someone else, copying from the Internet, using crib notes on exams, or handing in written reports that do not represent your own work. Any student turning in an assignment overly similar to that of another student or another author, or found committing academic dishonesty of any other type will receive a failing grade for the assignment, and a report of the incident filed with the appropriate college authorities. Subsequent infractions may result in the student being dismissed from the class with a failing grade. For more information, see Cañada's Academic Integrity Policy, [http://canadacollege.edu/inside/acad\\_integrity/AIforCatalog.pdf](http://canadacollege.edu/inside/acad_integrity/AIforCatalog.pdf).

#### **Disabilities and Acceptable Course Conflicts**

I will gladly accommodate students with physical or learning disabilities. If you have such a disability and are registered with the DRC, please contact me as early in the semester as possible. If you are an observant member of a religion that has a holiday that conflicts with a course requirement, please see me as early as possible to make alternative arrangements. Qualified students with physical or documented learning disabilities have the right to free accommodations to ensure equal access to educational opportunities at Cañada College.

#### **Student Feedback**

I need to hear from you about the success or failure of any aspect of this course. Please provide your criticisms, praise, or suggestions via my mailbox, office hours, e-mail, or anonymous note.