

## BIOLOGY 132 ~ HUMAN BIOLOGY LAB COURSE SYLLABUS ~ Spring 2011

### COURSE INFORMATION

Credits: 1  
Lab: M 1:05-4:10; Room 16-212  
Web Site: <http://smccd.mrooms.net>  
Office Hours: Tu 10:30-12:30, W 1-2:30

### INSTRUCTOR INFORMATION

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

### COURSE DESCRIPTION

In this laboratory course you will perform investigate mammalian anatomy and physiology and utilize the scientific method. You will analyze data and draw appropriate conclusions. This course is a supplement to BIOL 130 Human Biology making it transferable as a lab science course to CSU colleges.

By the end of the semester you will be able to:

- apply all steps of the scientific method to answer questions and solve problems.
- correctly operate common lab instruments, such as pH meter, microscopes, pipettes, using the metric system of measurement.
- create and interpret graphs and tables with data.
- identify gross anatomical features of human organ systems and cells of each tissue type.
- explain how features of each organ system help maintain homeostasis.
- analyze problems of genetic inheritance with data from pedigrees or from biotechnological methods.

### REQUIRED RESOURCES

#### **Required text for purchase:**

- *Human Biology lab manual* – campus bookstore

#### **Online access:**

- The course web site (WebAccess) is a digital hub for locating course materials, performing online quizzes, accessing grades, and communicating between students and the instructor. Free computer access is provided by the Learning Center (Bldg 9) which is open M-Th 8 am - 8 pm, and F 8-3.

#### **Equipment:** bring to lab every week

- Lab manual
- Lined paper, blank paper, and graph paper (3-hole punched)
- Pencil, eraser, pen
- Calculator (optional)
- Safety glasses or goggles (available at the bookstore) - REQUIRED

### ASSESSMENT & EVALUATION

#### **Pre-lab Homework**

A brief summary of each lab is due at the beginning of that lab. It should be typed and consist of two paragraphs. The first paragraph of the summary should describe the overall topic and purpose of the lab. The second paragraph should describe the activities that will comprise the lab. There is no provision for late or make-up pre-lab summaries.

#### **Lab Portfolio**

Each student will keep his/her lab manual in a 3-ring binder capable of holding about 150 pages. Use tabs to separate each lab. You will insert notes, drawings and results as separate sheets of paper into your binder. Portfolios will be periodically collected and assessed for completeness.

For each lab:

- A. Include your graded pre-lab summary as the first page of the lab.
- B. List the names of all group members on the top of the first page of the printed lab instructions.
- C. Write down any changes in procedure, intentional or not, as your group conducts the lab. These changes should be written directly in the lab manual.
- D. Answer the questions as you work through the lab. Draw all data tables, worksheets, graphs and diagrams on appropriate paper (lined, grid, or blank) and insert them into your portfolio.
- E. Some labs may require more extensive formal reports. Once graded and returned to you these should also be inserted into your portfolio.

### Quizzes

You will be required to complete online quizzes to assess your learning from each lab. 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. It is highly recommended that you take the quizzes in an on-campus computer lab in order to minimize technical glitches.

### 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.

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.

Assessment	% of Final Grade
Pre-lab	15
Lab activities and write-ups	45
Quizzes	10
Lab practical	30
<b>Total =</b>	<b>100%</b>

You may find out your scores at any time during the semester by visiting the course web site.

### Attendance

Attendance is required. You cannot pass the course with more than two absences.

### 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 April 28. 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/AlforCatalog.pdf](http://canadacollege.edu/inside/acad_integrity/AlforCatalog.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.