

BIOLOGY 22 (57465): Human Physiology
Fall 2012

Instructor: Dr. Ann P. Fallon, M.D., M.P.H.

Cell Phone: 559-355-9629

E-mail: ann.fallon@sccd.edu

I. COURSE DESCRIPTION

A. Title: Biology 22 (57465)– Human Physiology

Location: LFS 11

Lecture: TTh 5:30 PM – 7:20 PM

Lab: TTh 7:30 PM – 8:45 PM

Important Dates: August 24, 2012- Last day to drop for full credit

August 31, 2012- Last day to drop to avoid a “W”

September 3, 2012- Labor Day

October 12, 2012- Final drop date

November 12, 2012- Veteran’s Day

November 22-23, 2012- *No class*- Thanksgiving Holiday

December 11, 2012- Final Examination

B. Biology 22 is a 5 unit class with 4 hours of lecture and 3 hours of laboratory each week.

C. Prerequisites: Chem 1A or Chem 3A and Biol 20

D. Learning Methods: Lecture/discussion; Laboratory exercises and workbooks; and Audio-Visual Methods

E. Course Outcomes: *Upon completion of this course, students will be able to:*

- A. describe the function of each human organ and organ system.
- B. explain the cell membrane potential and how it becomes an action potential.
- C. describe the cell-to-cell communication.
- D. demonstrate the use of the electrocardiograph and identify the components of a normal reading.
- E. describe the interactions of the respiratory and excretory systems .
- F. demonstrate critical thinking in the evaluation of homeostasis.

F. Course Objectives: *In the process of completing this course, students will:*

- A. assess the basic structure and function of each system in the human body.
- B. assess the results of laboratory experiments and demonstrations.
- C. illustrate the cell membrane, its electrical activity and conduction of action potentials.
- D. compare the autonomic system and the endocrine.
- E. analyze the cardiovascular system by performing an EKG and monitoring blood pressure.
- F. evaluate lung and kidney function using computer simulations

II. REQUIRED MATERIALS:

Human Physiology, Fox, 12th edition, McGraw Hill; ISBN: 978-0-07-337811-4

Human Physiology Lab Manual, Fox, 14th ed, McGraw Hill; ISBN: 978-0-07-729617-9

Scantron forms (882-E)

III. NO FOOD, BEVERAGE, CELLULAR PHONES OR PROFANITY AT ANY TIME!!! ABSOLUTELY NO VISITORS ARE PERMITTED AT ANY TIME!!!

IV. CLASS PARTICIPATION & ATTENDANCE AT ALL LECTURES AND LABS IS MANDATORY:

Participation in class, especially laboratory activities, is critical for maximizing learning and successful completion of the course. Class starts on time. You are expected to be on time for each laboratory and lecture session. If you are late, check in with your instructor during the break to ensure your attendance is counted. Regular roll will be taken and excessive absences may result in being dropped from the course as per the college catalog.

The class may have a waiting list; therefore anyone with an **unexcused absence or late** from either a lecture or lab will be dropped from the roster and replaced by the next person on the waiting list. This process will continue until either the last day to register has passed or until no students remain on the wait list. Wait-listed students will be dropped from the wait-list with their first unexcused absence. Attendance by wait listed students will not be permitted after the last day to register. Students must be present to receive an add slip.

Students must be enrolled or on the wait-list to attend class or lab. **ABSOLUTELY NO VISITORS ARE PERMITTED AT ANY TIME!!!** Wait-listed students must complete and submit lab reports as specified by the course syllabus and course schedule to receive full credit for the labs. Wait-listed students must attend the lab each week to remain on the wait list.

If you are unable to attend class or lab, you must contact the instructor as soon as possible. **No work will be accepted without an excused absence.**

V. TESTS AND EVALUATIONS:

A. Grading: Students' grades will be posted to the Blackboard Grade Book. Each student will be responsible to review the scores posted to the Blackboard Grade Book for transcription errors. Errors will only be corrected after the original document has been presented to the instructor to verify that an incorrect score was recorded. Assessment of student progress in the course will be based upon the following:

Description	Points Possible	
Lecture/Lab Exams (6@150 points each)	900	(48%)
Laboratory Assignments (33@10 points each)	330	(18%)
Homework Assignments (6@50 points each)	300	(16%)
Final Exam (Cumulative)	150	(8%)

Case Studies (6@20 points each)	120	(6%)
Lecture and Laboratory participation	50	(3%)
Syllabus Tour	10	(0.5%)
Textbook Tour	10	(0.5%)

Approximate Total Points = 1870

90-100% = A 80-89% = B 70-79% = C 60-69% = D 59% and below = F

B. *Lecture/Lab Exams* will include multiple choice (at least 25-30 from the corresponding Homework assignment), true/false, matching and fill-in-the blank questions and usually 5-10 short essay questions. They will cover material from the lectures and labs covered. Some lab test questions may come directly from the completed labs.

C. **NO MAKE-UP LECTURE/LAB EXAMS WILL BE GIVEN.** However, I reserve the right to give consideration to special cases. Make-up exams will **ONLY** be offered with the prior approval of the instructor. Please do not miss exams.

D. Extra Credit –You may write a brief summary of a **current news article** related to biology, medicine, or health care for 2 points. Articles can be from newspapers, scientific journals or internet websites. You may not turn in information from textbooks, advertisements, blogs, wikis, or advice columns. You may turn in a maximum of one article per week and **MUST** list where you obtained the information, e.g., the title of the article and newspaper or journal, or the URL for full credit. It is due by 2359, Saturday of each week, except for finals week, when it is due by 2359 on Tuesday December 11, 2012.

E. Lab: You must purchase the Lab Manual. Photocopies of the Lab Manual will not be accepted unless the bookstore has insufficient copies for each student to purchase their own lab manual. Any Lab reports with any photocopied answers will receive a grade of “0”. The lab reports are posted on Blackboard and may be used instead of turning in the lab report pages from the lab manual.

During labs, students are encouraged to work together in groups; however each student is expected to complete their lab reports individually. Lab instructors will attempt to return corrected labs the class period after they have been received so that corrected labs may be available for test study purposes. Print your name at the top of the first page.

Lab reports are due the class after the completion of that lab activity at the **beginning** of the class period. Some labs are very time consuming. Some labs are short and have been combined so 2 labs are completed during a single lab session. Most labs reports have a significant work book activity to complete. If you try to complete all the work book exercise, you may not have time to complete the activities that must be completed during the lab. Read the lab prior to the lab session. Identify the activities that must be completed in the lab. Complete the work book sections prior to lab so you can review your answers with your lab partners. Complete the lab at home.

If you miss a lab, it is your responsibility to obtain the lab data from your lab partners. Make-up lab times will not be available due to time and space constraints. Labs submitted after the due date will have 5 points deducted from their earned score. Lab reports will **NOT** be accepted after the **start** of the test for that section. If you “forgot” your labs at home or they are “in my car”, get them

before you start the test, otherwise they will not be accepted - **NO EXCEPTIONS**. You must have prior approval of the instructor to turn in a missed lab. **No lab credit will be provided for unexcused absences.**

F. Case studies: Six case studies will be assigned and due on the class date **before** the date of the exam as noted in the course schedule. They cover clinically relevant material for that exam. We will review each case study prior to the start of lab that day. Students must have prior approval of the instructor to turn in case studies late, which may result in loss of points for the case study.

G. Homework: There are six homework assignments. The Homework assignments are multiple choice questions where all answers must be recorded on an 882 scantron. Each Homework assignment will have 50 questions. The Homework assignments are due two class periods before the exam, so that they can be graded and returned to the students to use in studying for the exam. The course schedule has the exact dates for when the Homework assignments are due. Students must have prior approval of the instructor to turn in Homework late, which may result in loss of points.

VI. ACADEMIC DISHONESTY: Students at Reedley College are entitled to the best education that the college can make available to them, and they, their instructors, and their fellow students share the responsibility to ensure that this education is honestly obtained. Because cheating, plagiarism, and collusion in dishonest activities erode the integrity of the college, each student is expected to exert an entirely honest effort in all academic endeavors. Academic dishonest in any form is a very serious offense and will incur serious consequences.

VII. PLAGIARISM: Plagiarism is the adoption or reproduction of the ideas or words or statements of another person without due acknowledgment. This can range from borrowing without attribution a particularly apt phrase, to paraphrasing someone else's original idea without citation, to wholesale contract cheating.

VIII. CHEATING: Cheating is the act or attempted act of taking an examination or performing an assigned, evaluated task in a fraudulent or deceptive manner, such as having improper access to answers in an attempt to gain an unearned academic advantage. Cheating can take the form of crib notes, looking over someone's shoulder during an exam, or any forbidden sharing of information between students regarding an exam or exercise. Also, the storing of information in graphing calculators, pagers, cell phones, and other electronic devices has cropped up since the information revolution began.

Incidents of cheating and plagiarism may result in a variety of sanctions and penalties, which may range from a failing grade on a particular examination, paper, project, or assignment in question to a failing grade in the course at the discretion of the instructor and depending upon the severity and frequency of the incidents.

IX. MISCELLANEOUS:

A. If you should experience difficulty understanding the material presented in the course, it is your responsibility to see your instructor at the earliest possible time.

B. Students are to report any injury or accident that occurs in the lab to the lab instructor immediately. Wear appropriate clothing to lab. Open-toed shoes will not be allowed. If the instructor notices anyone with open-toed shoes in the lab,

that person will be asked to immediately leave the lab room.

C. NO CHILDREN OR VISITORS IN CLASS AT ANY TIME. NO FOOD OR BEVERAGES IN THE CLASSROOM (lecture or lab).

X. **CELL PHONES AND PAGERS:** All cell phones and pagers are to be turned **off** for class. If you are on call, or expecting an emergency phone call, place your cell phone/pager on silent and let the instructor know at the start of class and sit by the door to minimize disruption to class. **Any** phone or pager **use** during any test will result in a 20 point deduction for that test.

XI. **Accommodations for students with disabilities:** If you have a verified need for an academic accommodation or materials in alternate media (e.g., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act please contact me as soon as possible.

******I reserve the right to make changes in this syllabus without notification******