SYLLABUS
Biology 2402 Anatomy & Physiology
Fall 2011

Meeting Time: Monday & Wednesday 8:00 – 9:20 (Lab)  Monday & Wednesday 9:30 – 10:50 (Lecture)
Office Hours: Monday & Wednesday 12:30 – 1:50 pm
Tuesday & Thursday 11:00 – 12:20 pm
Office: Alice Campus Room 213
Phone: 664-1492 Ext. 3049
E-mail: recowart@coastalbend.edu

Instructor: Dr. Richard E. Cowart

BIOL 2402: Anatomy and Physiology II

Semester Hours: 4

Textbook: Seeley’s Anatomy & Physiology (9th edition)
Authors: VanPutte, Regan, Russo

Lab Manual: Seeley’s Anatomy & Physiology Laboratory Manual (9th edition)
Authors: Eric Wise (VanPutte, Regan, Russo)

Course website: CBC Blackboard and McGraw Hill’s Campus Connect (to be discussed in class).

Course Outline:
Surveys the structure and function of the human body including biochemical cell structure and function, histology and organ systems ( integumentary, skeletal, muscular, nervous, digestive, cardiovascular, lymphatic, immune, respiratory, endocrine, excretory and genital). Embryology and principles of heredity and genetic anomalies. Recommended for health science and pre-professional and health sciences majors. This course provides the student an in depth continuation of course work taught in Biol 2401.

Prerequisite:
High school Biology II Honors; or Biology 1408 or 1413; or acceptance into Health Information Technology or Dental Hygiene Program. A chemistry course is highly recommended. Biol 2401 is strongly recommended as a prerequisite for this course.

Course Objectives:
The student will learn the basic architectural plan of the human body and will be able to relate to the physiology and structure of the various organs and systems and to their respective functions.

The student will learn a significant portion of biochemistry as it relates to the functioning specific cell types, tissues, organs, and organ systems. The student will learn the basic facts of human physiology.

Special effort will be made to ensure that the student will be able to apply his/her knowledge of the normal functioning of the body to situations in which abnormalities or disorders occur.
**Instructional Procedures:**
Classroom lectures  
Videos  
Laboratory study  
Handouts

**Grading System:**
Grades will be assigned using the traditional scale:  
A…………..90 +  
B…………..80 – 89  
C…………..70 – 79  
D…………..60 – 69  
F…………..Below 60 %

**Source of Grades**
Major exams (3)……..65%  
Lab Average………25% Laboratory average derived from worksheets, lab practicals, and final lab exam.  
Student Research Project……..10%

**ATTENDANCE POLICY**
Class attendance is mandatory and roll will be taken at the beginning of each class meeting. **If a student misses 4 classes, they may be dropped from the course and a grade of "Q" given.** A student is considered absent if they are not present when roll is taken. If you know in advance that you will miss a class, please contact the instructor. The laboratory meets twice a week as scheduled. You are expected to be available for the complete lab period. **Anyone leaving lab early will receive a zero for that lab.**  
Laboratory absences do count toward the total absences.

**LABORATORY ATTIRE**
Laboratory safety is of paramount importance and safety rules and regulations are strictly enforced. All students are required to wear closed toed shoes and long pants when in the laboratory. Sandals, flip flops, crocs, and shorts are not acceptable. Any student that does not follow safety rules and regulations, or is not in proper laboratory attire, may be asked to leave the laboratory.

**STUDENT CONDUCT & DISRUPTIVE BEHAVIOR**
As stated in the Student Handbook, “All students shall obey the law, show respect for properly constituted authority, and observe correct standards of conduct”. Examples of prohibited acts on college property are:

- Scholastic dishonesty (“cheating”) and Plagarism  
- Interference with teaching responsibilities through disorderly conduct or disruptive behavior  
- Engaging in any obscene, profane, reckless, destructive, or unlawful course of action.

Any student that fails to observe the correct standards of conduct outlined in the student handbook may be told to leave the class and will receive an absence for that day. Any student with chronic misbehavior will be dropped from the class.

Excessive talking between students during the course of the lecture is considered disruptive behavior and the students involved can be instructed to leave the class. Chronic excessive talking can result in the students involved being dropped from the class.
Any student caught cheating on an exam will receive an immediate zero on that exam. Any student caught assisting another student with his or her exam will also receive an immediate zero on that exam.

**NON-APPROVED ELECTRONIC DEVICES**

Non-approved electronic devices are any and all electronic devices that the instructor has not approved for use in the classroom. This includes, but is not limited to, cell phones, iPods, laptop computers, and recorders. If you have any questions as to the acceptability of an electronic device in the classroom, ask the instructor. Some instructors do allow the use of computers and recorders.

All non-approved electronic devices must be turned off while the student is in class. Cell phones may be set to vibrate if the student is expecting an important call and the instructor has approved it before class begins. Students using non-approved electronic devices may be asked to leave the classroom and receive an absence for the class. **The use of any non-approved electronic device during an exam will be considered cheating, and the student will receive a zero on that exam.**

**GRIEVANCE PROCEDURE**

Our primary concern is that all students are provided with a productive learning environment in which there is mutual respect. We believe the most productive learning environment is one in which the students feel comfortable enough to freely ask questions and exchange ideas. If you are ever harassed or insulted by another student, bring it to the instructor’s attention immediately.

If at any time during the semester you have a complaint or "point of concern", notify the instructor immediately. If you do not feel that the situation can be resolved after bringing it to the instructors attention, you are encouraged to contact the Chairperson of the Science Division at Coastal Bend College, or the Academic Director.

**Miscellaneous Rules:**

1. I respectfully request that all electronic devices be turned off during lecture and lab periods. This includes cell phones, pagers, handheld palm devices and any other potentially distracting device. Cell phones must be turned off and inaccessible during exams. Texting, emailing and similar activities will not be tolerated during lecture or lab. Student in violation of this will be asked to leave the class immediately.

2. Class will start promptly at posted times and according to the clock in the classroom. The door will be locked shut at the start of class at the end of the first week of classes. Students arriving after roll call will be counted absent.

3. I encourage students to utilize the internet site for this textbook along with the Campus Connect online material. There are many study hints and self evaluation tests available at this site. Refer to the class website to be announced.

4. Lecture Exams and Lab Exams cannot be made up if you miss the assigned time for such test. If you miss one the above then you must contact me regarding the situation. If at all possible call me prior to missing the exam for possible alternatives.

5. No extra credit work will be allowed for this course.

6. Students with special needs or disabilities, as outlined in the student handbook, may request assistance from the counseling center or the instructor. CBC strives to accommodate special needs for its students.
COURSE CONTENT

PART 3 INTEGRATION & CONTROL SYSTEMS
Chapter 11  Functional Organization of Nervous Tissue
Chapter 12  Spinal Cord & Spinal Nerves
Chapter 13  Brain & Cranial Nerves
Chapter 14  Integration of Nervous System Functions
Chapter 15  The Special Senses
Chapter 16  Autonomic Nervous System
Chapter 17  Functional Organization of the Endocrine System
Chapter 18  Endocrine Glands

PART 4 REGULATIONS & MAINTENANCE
Chapter 19  Cardiovascular System: The Blood
Chapter 20  Cardiovascular System: The Heart
Chapter 21  Cardiovascular System: Blood Vessels & Circulation
Chapter 22  Lymphatic System & Immunity
Chapter 23  Respiratory System
Chapter 24  Digestive System
Chapter 26  Urinary System

PART 5 REPRODUCTION & DEVELOPMENT
Chapter 28  Reproduction System

Exam I: Chapters 11-14
Exam II: Chapters 15-18
Exam III: Chapters 19-22
Final Exam: Chapters 23,24,26 & 28