

HUMAN ANATOMY & PHYSIOLOGY I LABORATORY

BIOL 2401.C8L

Saturday

8:30am - 12:40pm

Room A309

Spring, 2008

COURSE NUMBER: BIOL 240.C71

COURSE TITLE: Anatomy and Physiology I

COURSE DESCRIPTION: Study of cell structure and function, tissues, and the skeletal, muscular, and nervous systems.

Emphasis is on structure, function, and the interrelationships of the human systems. Lab required. Prerequisite: BIOL 1406 or two years of high school biology within the last three years, or consent of Department Chair.

CREDIT HOURS: 4 **LECTURE HOURS:** 3 **LAB HOURS:** 4

PRE-REQUISITE: BIOL 1406

CO-REQUISITE: BIOL 2401 Lecture

COLLEGE REPEAT POLICY: A student may repeat this course only once after receiving a grade, including "W".

COURSE DELIVERY METHOD: Lectures will be combined with group discussions, and alternative learning methods (slides, transparencies, films, collaborative learning, etc.) will be used to augment lecture topics.

INSTRUCTOR'S INFORMATION:

INSTRUCTOR: Dr. Ruben St. Laurent

OFFICE ROOM NUMBER/CAMPUS: Room B305, Central Park Campus

OFFICE PHONE: (972) 548-6832

E-MAIL: rstlaurent@cccdd.edu

INSTRUCTOR WEBSITE: <http://iws.cccdd.edu/rstlaurent>

OFFICE HOURS: Must reserve time with the instructor (TBA)

GENERAL COURSE INFORMATION: <http://iws.cccdd.edu/BIOPAGE/Biopage.html>

TEXTBOOK:

Required: *Human Anatomy and Physiology Laboratory Manual, 9th edition* (cat version), Elaine Marieb

SUPPLIES:

Loose-leaf notebook to keep lab reports and handouts, Colored pencils or markers, Lab coat or apron, gloves, surgical or dust mask, Safety glasses, Dissecting kit

STUDENT LEARNING OBJECTIVES

1. Describe and microscopically identify the basic tissues of the body, their location and explain their functions
2. Identify and describe the major gross and microscopic anatomical components of the integumentary system and describe their functions
3. Identify and describe the major gross and microscopic anatomical components of the skeletal system and explain their functional roles in osteogenesis, repair, & body movement
4. Identify and describe the major gross and microscopic anatomical components of the muscular system and explain their functional roles in body movement, maintenance of posture, and heat production
5. Identify and describe the major gross and microscopic anatomical components of the nervous system and explain their functional roles in communication, control, & integration
6. Identify and describe the major gross and microscopic anatomical components of the special senses and explain their functional roles in vision, hearing, equilibrium, olfaction, gestation, pain, temperature, touch, pressure, and position.

COURSE REQUIREMENTS: Lecture exams will be given covering the text and lecture topics. The laboratory grade will be integrated with the lecture grade to produce the final overall course grade at the end of the semester.

METHOD OF EVALUATION: Every effort will be made to ensure that grading is fair and equitable. Lab grades will be based entirely on the student's performance on lab practicals, quizzes, lab reports, and any other assignments. Grades earned by the student will reflect student performance. Effort put forth by the student is expected and important but is not a substitute for performance.

All lab practicals must be attended at the regularly scheduled lab time unless you speak to me to make other arrangements to attend another lab. You will only be given permission to do so upon **verification** of bona fide medical emergency or death within the immediate family. Lab practicals can cover anything covered in lab or the lab book.

Lab practical will be returned in class for a brief review. Thereafter, Lab Practicals will be kept on file in the instructor's office and will be available for review. The student is responsible for scheduling time to review each Lab Practical within one week after lab practical Lab Practical grades are received. All issues regarding lab practical questions and grades must be resolved within one week after grades are returned to the class.

Lab reports are a one-person project. Otherwise it will be considered plagiarism and all parties involved will be reported to the Dean of students. They are due on time until the end of the day. Late reports will be accepted until the next class day after the due date, but then the starting grade will be 70.

In keeping with the spirit of the Privacy Act, grades and/or grade information will not be given to any one other than the student and will not be discussed over the phone.

Overall course grade: lab 60%; lab 40%

LAB PRACTICAL CONTENT: Lab Practicals will cover material presented in class and from outside reading assignments. Everything covered in class is important and is potential Lab Practical material. The student should seek to master the course material and avoid wasting effort directed at simply predicting, "What will be on the test." Lab Practical questions will require critical thinking and not simple memorization.

MAKE-UP LAB PRACTICALS: There are NO makeup Lab Practicals barring any unforeseen emergencies or extraordinary circumstances the student might encounter. Each case of a missed Lab Practical is judged on an individual basis and the determination as to whether to give or not to give a make up Lab Practical to any given student at any given time is at the sole discretion of the course instructor. At the course director's discretion, the make-up Lab Practical can be an essay style Lab Practical. Vacation, leisure travel and seminar attendance do not constitute extra ordinary circumstances. **IMPORTANT: You may not elect to "skip" a scheduled Lab Practical and default to the comprehensive Lab Practical! The comprehensive Lab Practical will be given by permission only at the course director's discretion in the case of make-up Lab Practicals.**

LAB PRACTICAL ABSENCES: Lab Practicals are scheduled well in advance. If a student must be absent from an Lab Practical, it is the student's responsibility to notify the Course Instructor no later than the scheduled starting time of the Lab Practical. Failure to notify the Course Director could result in the student receiving a grade of "0" for the missed Lab Practical.

LAB PRACTICAL PROCEDURES: Students must be on time for all Lab Practicals as no Lab Practicals are passed out once the first student leaves the Lab Practical room. However, if a student is late, and no one has left the Lab Practical room, they will be allowed to take the Lab Practical, but no additional time will be allowed. If a student comes in late for an Lab Practical and another student taking the Lab Practical has already left the classroom, the late student will not be allowed to sit for the Lab Practical, and will receive a grade of "0".

Lab Practicals will be returned in class for a brief review. Thereafter, Lab Practicals will kept on file in the instructor's office and will be available for review. All issues regarding Lab Practical questions and Lab Practical grades must be resolved within one week after Lab Practical grades are returned to the class.

FERPA POLICY: Grades and/or grade information will not be given to anyone other than the student and will not be discussed over the phone. Discussion of grades via email will only be allowed if the request for such discussion is initiated by the actual student, and only via their Cougar email address.

LABORATORY QUIZZES: Quizzes will be given upon the commencement of every class. The fifteen highest quizzes will count toward your final quiz grade. **Expect a quiz every class (consider this the quiz announcement).**

LAB PRACTICALS: Three lab practicals will be given during the semester. You can only take a lab practical during your scheduled lab.

LABORATORY GRADE:

Lab Practical (3) 20 x 3 = 60 %
Lab Quizzes (10) 20 %
Lab Reports (4) 20%

GRADING SCALE:

Grade	Numerical Value	Grade Point Average	Interpretation of Academic Achievement
A	90 to 100	4.0	Excellent
B	80 to 89	3.0	Above Average
C	70 to 79	2.0	Satisfactory
D	60 to 69	1.0	Minimal
F	50 to 59	0.0	Unacceptable

CLASS ATTENDANCE: As described on the generic syllabus. Students **must** expect to spend time in and out of class to successfully complete the course. Full realization of the learning process is reliant upon the fact that student is expected to attend and be attentive and participatory in all lab classes.

COURSE WITHDRAWAL POLICY: As described on the generic syllabus

PROFESSIONAL DECORUM: Students are expected to behave in a professional manner at all times. Positive contributions to the learning environment and participation in classroom learning activities are expected. Students should demonstrate courtesy to the instructor, to special guest speakers, and to other classmates. Focusing your attention on anything other than pertinent classroom material could be considered discourteous. Any person who is discourteous or disrupts the class with unprofessional conduct (such as (by not limited to), reading non-course materials, talking/texting on cell phones, sleeping, popping gum, etc.) may be asked to leave the classroom. Cell phones and pagers should be turned off, on silent, or on vibrate while in the classroom. All such activities are disruptive and counterproductive to the learning environment, and infractions will be handled in accordance with the procedures outlined in the Student Handbook.

COMPUTER USE: Students are encouraged to utilize personal computers in the classroom for taking notes, following the lab outlines or reference materials, etc. Other uses unrelated to the lab topic are not allowed. During lab, surfing the Internet or playing games during lab or lab time is strictly prohibited and will result in the student being asked to discontinue use of their computers. Also, the student may be asked to leave the classroom and will be counted absent for that class period.

ACADEMIC DISHONESTY: (aka “Cheating”) Will not be tolerated. If you are caught cheating, you will receive a "0" on that Lab Practical and disciplinary action will be taken which include referral to the Dean of Students and could result in your dismissal. If you are suspected of cheating on an Lab Practical, or quiz you may be singled out and required to sit in the front of the classroom so that you can be clearly watched. You may be considered cheating if (considerations of cheating are not limited to this list): copying another Lab Practical, looking in the direction of another Lab Practical over 1 second, looking at someone else’s answers sheet, any cell phone/pagers usage, signal tapping, listening to any electronic device, cheat sheet, etc. The cheating policy includes Lab Practicals and quizzes.

AUDIO/VIDEO TAPING: The prerogative of the audio-taping and/or video recording of labs/laboratories is a right specifically reserved to faculty. Should you wish to record, using any device you must obtain the permission of the respective instructor in all classes.

COMMUNICATION: E-mails are welcome. The subject line of all messages sent to me must include the student's name, course number, and section number. Any anonymous e-mail or message without a subject line as specified above will be deleted without being read. All email messages must have a signature that includes the student's name, phone number and email address.

COURSE EXPECTATIONS: Students are expected to learn the material at the college level. It is not anticipated that the student will grasp everything immediately as presented in the classroom. It is the student's responsibility to learn the material, and most of this learning will take place outside the classroom. This is a rigorous course and a minimum of 3 hours preparation outside is expected for every 1 hour of lab.

FOR SUCCESS IN THIS COURSE, IT IS EXPECTED THAT THE STUDENT WILL:

1. Read the relevant text material before class. Do not be overly concerned if you do not immediately grasp the material as you read it. If it were that easy we would not need labs.
2. Review and rewrite class notes as soon as possible after class. Identify important terms and concepts and note any differences you have with the material.
3. Resolve difficult concepts with the aid of your text, other classmates, or other resources (study guides, study CDs, tutoring offered through publisher, etc.) before the next class meeting. If these various resources do not help, see the instructor during office hours.
4. Learn the vocabulary terms and be able to explain the relevance of each term prior to the next class.
5. Bring your text and use it during lab. Make frequent use of the glossary and index.

Use the helpful features of your text, study guide, available CD-ROMs, tutoring offered through publisher, etc.

**BIOLOGY 2401 - ANATOMY & PHYSIOLOGY I
LABORATORY SCHEDULE**

WEEK	LABORATORY TOPICS	CHAPTERS
1	Orientation, Protocol, Safety, Microscope, Anatomical Orientation, Terminology, Cell Review Embryology, Epithelial Tissues	Handouts Ex. 1 – 5A Ex 44, Ex 6A
2	Epithelial Tissues Connective Tissues, Membranes	Ex. 6A Ex. 6A, Ex. 8
3	Muscle Tissue, Nervous Tissue Integumentary System	Ex. 6 Ex. 7
4	Lab Practical Review Lab Practical I	
5	Nervous Tissue, Neurophysiology Spinal Cord, Spinal Nerves	Ex. 17, 18 21(part), ADI tutorial
6	Brain, Cranial Nerves Brain Dissection, EEG	Ex. 19 Ex. 19, 20
7	Special Senses: Eye Special Senses: Ear	Ex. 24 Ex. 25
8	Special Senses: Smell, Taste; General Senses ANS, Human Reflexes	Ex. 26, 23 Ex. 21, 22
9	Lab Practical Review Lab Practical II	
10	Skeletal Tissue, Terminology, Skull Axial Skeleton, Appendicular Skeleton	Ex. 9, 10 Ex. 10, 11
11	Appendicular Skeleton, Fetal Skeleton Articulation	Ex. 11, 12 Ex. 13
12	***4/11 Last Day to Withdraw*** Intro. Cat: Dissection Exercise Muscles (Human & Cat)	D1.1-D1.2 Ex. 15, D1.2-D1.9
13	Muscles & Muscle Tissue	Ex. 15, D1.9-D1.13
14	Muscle Tissue, Muscle Physiology	Ex. 14, 16
15	Lab Practical Review Lab Practical III Exam	