

RICHLAND COLLEGE DEPARTMENT OF BIOLOGY
School of Mathematics, Science, and Health Professions
Course Syllabus For
Biol 2401: Anatomy and Physiology 1
4 credit hours (3 lec/3lab)

Semester and Year: Spring 2018
Section: 81503
Class time and days: Lecture: W 8:30p-11:15p Lab: M 8:30-11:15p
Room: Lecture: WH160 Lab: SH131
Instructor: Dr. Stephen Slaughter
Contact Info: sslaughter@dccd.edu 972-238-6140
Office:
Office hours: Around lab/lecture times
Last date to withdraw: April 17
Final Exam Day/time: TBA

Evaluation Procedures:

Exams

Lecture exams	(3 @ 100pts.)	300
	(1 @ 150pts.)	150
Lab practicals	(3 @ 50pts.)	150
Lab Quizzes/Assignments	(5 @ 10 pts.)	50

FINAL GRADE DETERMINATION

Points	Grade
585-650	A
520-584	B
455-519	C
390-454	D
less than 480	F

The professor reserves the right to change the syllabus as needed.

- All of the sections of Biol 2401-2402 are organized the same way, same number of lecture tests, min-lab practicals, etc., including a **cumulative final exam**. No make-ups for exams after the fact, unless you have a doctor's note or previously determined excuse.

Attendance Policy: In order to be successful, students must attend and participate in enrolled courses. Attendance is necessary for class participation and course work. There will be no make-up opportunities for missed assignments. Thus, it is strongly recommended that students attend each class. However, there will be no official course grading policy on attendance. If there is a conflict in your schedule, contact me ASAP. . If some unforeseen (or foreseen, for that matter) problem keeps you from a class period which has a lecture test scheduled, there will be a **make-up at the END of the semester, probably in essay format**. There are no make-up lab practicals: if you cannot attend your own section's scheduled lab practical, you will need to attend another lab period during the lab practical time period.

You are expected to be in class every period. Missing a 3 hour weekly lab is REALLY going to affect

your lab grade, so try to go to another section to make the lab up. I can give you times of other sections. However, you need to introduce yourself to that instructor, and ask them if it is alright to attend their lab.

If you are unable to complete this course, it is your responsibility to withdraw formally---by Wednesday April 12. The withdrawal request must be received in the Registrar's Office by the drop date. Failure to do so will result in your receiving a performance grade, usually an "F."

Required Materials:

The Mastering A&P homework system is REQUIRED (comes w/ either NEW lecture text OR NEW lab text or bought stand- alone through Pearson website if you prefer to buy used text). The Mastering A&P homework system ISBN, as a standalone without text, is 1323004610. Available through bookstore.

1. Textbook: **FUNDAMENTALS OF ANATOMY & PHYSIOLOGY (10th ed.), 1269939386 for Modified Mastering code with eBook, Frederic Martini + Mastering A&P.**

- If you had rather, you can buy a new print text: A new copy comes with Mastering A&P homework. The bookstore has both print copies and eText codes.
- Alternatively, you can buy a used text or rent a text from the bookstore but that will not give you access to the above supplemental materials. In this case, you need a stand-alone Mastering A&P access code, ISBN **1323004610 for Modified Mastering code without eBook**

2. Lab manual: Human Anatomy & Physiology Laboratory Manual--cat version-- by Elaine N. Marieb, et al. **WE ARE USING CUSTOM SHORTER VERSIONS THAT HAVE ELIMINATED LOTS OF EXERCISES THAT WE DO NOT USE—cheaper than the full lab book..** If you would rather or have one accessible to you, you can use the full lab book (11th edition). But be sure that it has cat dissections in it (they are very much like the mink that we dissect).

Be sure to bookmark this website---<http://delrio.dcccd.edu/jreynolds/A&P/index.html>. It has links to lab practical reviews, graphics that go along with the lab manual, and links for microbiology courses, also.

Instructor Policies and Suggestions for Student Success:

- Students pursuing careers in the Health Professions can find specific information on occupations, resources, financial aid, and programs at Texas institutions at this RLC Health Professions website: www.rlc.dcccd.edu/medcareers
- This class DEMANDS group interactive skills. Be aware that you will have to COOPERATE with lab partners. Be prepared to be an ACTIVE learner, and to work cooperatively with other students: **IF YOU CANNOT OR WILL NOT DO THIS, YOU MIGHT WANT TO RE-THINK THIS CLASS.**
- MINK DISSECTIONS ARE PERFORMED IN THE LAB, PER TABLE: BE AWARE OF THIS REQUIREMENT. IT IS YOUR RESPONSIBILITY TO HAVE GLOVES WHEN NEEDED IN LAB.
- You are expected to behave in an adult manner while in class. Inappropriate class behaviors include sleeping, working on other class assignments, talking incessantly, and cheating. If you behave in a non-adult, irresponsible manner, you will be asked to leave the classroom. *Cheating on a lab quiz or lecture exam is absolutely forbidden and is grounds for giving you an F as a course grade.*
- If you have an assignment, they are DUE at the beginning of class on the day it is due. If it is late, points will be taken off. If it is more than 2 days late, there will be no credit for the assignment.
- Please be considerate enough to turn your cell telephones to vibrate, AND leave the room as quietly as possible to talk (**ONLY IF ABSOLUTELY NECESSARY** to talk right then and right there!). During an exam or lab practical, all phones will be put up and turned off. No text messaging during classtime, please.
- FOOD AND DRINK IN THE CLASSROOM? You may bring in munchies and drinks IN, but you have to carry the trash from these items OUT! I will remind you about this if I see you leaving trash.
- Consider this class as or more important than your job. It is not O.K. to leave lab early, or miss lab completely, because of work.

"Academic dishonesty" is understood as any act of deceit bearing on one's own or another's academic work, where "academic work" is understood to mean any activity pertaining to the educational mission of the

college.

Such acts include, but are not limited to, plagiarism in any form; the use during an exam of information or materials not authorized by the instructor for such use and any other activities which are designed to deceive an instructor in the evaluation of the level of the student's achievement.

plagiarism =

deliberate use of someone else's language, ideas, or other original (not common-knowledge) material without acknowledging its source. This definition applies to texts published in print or on-line, to manuscripts, and to the work of other student writers. Plagiarism is the taking of someone's ideas and misrepresenting them as one's own ideas. Most people know that this obviously includes word-for-word lifting of words, but it also includes lifting ideas (even paraphrasing them in your own words) without giving someone credit for them (either by footnoting, or in the Works Cited at end of the paper). Plagiarism is NOT allowed.

Academic Misconduct Regarding Exams & Lab Practicals:

Cheating on tests and lab practicals include, but is not limited to, the following activities:

- looking onto someone's answer sheet, even if you do not use their answers,
- knowingly allowing someone to look onto your answer sheet,
- using a cheat sheet, or other unauthorized material
- talking to someone or otherwise exchanging information during an exam,
- asking someone what is on a lab practical or telling someone what is on a lab practical,
- waiting out in the hallway when people have just taken the exam to hear them discuss the lab exam.
- removing from lab any material meant to stay in lab, e.g., models, dissected organs, etc.,
- writing answers on the table
- writing answers on the question card
- going or looking into a lab where the lab practical is set up, and,
- getting the answer key before the test.

Students should not leave during an exam, quiz, or lab practical to use the bathroom. Go BEFORE the exam. If you have a health problem which your instructor needs to know about, to enable you to leave class to go to the restroom, please inform him/her at the beginning of the semester.

Any student violating any rule(s) above will get a ZERO on the lab practical exam.

College Policies and Procedures:

For Institution Policies, please refer to [Richland College Institution Policies](http://www.richlandcollege.edu/syllabusinfo/) (<http://www.richlandcollege.edu/syllabusinfo/>)

**RICHLAND COLLEGE'S QUALITY ENHANCEMENT PLAN ~ LEARNING TO LEARN:
DEVELOPING LEARNING POWER:**

Richland College is piloting its Quality Enhancement Plan (QEP) in select classes. The QEP provides techniques, practices, and tools to help students develop the habits, traits or behaviors needed to be effective and successful lifelong learners in college and in life. For more information, please check [QEP 2013](http://www.richlandcollege.edu/qep) (<http://www.richlandcollege.edu/qep>)

ACADEMIC PROGRESS: Students are encouraged to discuss academic goals and degree completion with their instructors. Specific advising is available throughout the semester. Check [Richland College Steps to Success](http://www.richlandcollege.edu/admissions/process.php) (<http://www.richlandcollege.edu/admissions/process.php>)

Catalog Course Description

Course Description: This is the second course of a two course sequence. Structure and function as related to the human circulatory, respiratory, urinary, digestive, reproductive, and endocrine systems are

studied. Emphasis is placed on the interrelationships of these systems. This is a transferable course intended for those seeking to complete a Bachelor's Degree. (3 Lec., 3 Lab.)

Pre-requisites: BIOL 2401. One of the following must be met: (1) DREA 0093 AND DWRI 0093; (2) English as a Second Language (ESOL) 0044 AND 0054; or (3) have met Texas Success Initiative (TSI) in Reading and Writing standards AND the college Writing score prerequisite requirement.

Course Objectives

Biology 2401 is recommended as required or an elective course for biology majors, pre-medical/pre-dental students, nursing students, and others who are in the allied health professions. The semester covers the structure and function of the human body in both a lab and lecture format. In addition to the extensive lab coverage of human anatomy and histology, mink dissections will be a major component of the course. Biol 2401 examines cell structure and function, tissues, and the skeletal, muscular, and nervous systems. Emphasis is on structure, function, and the interrelationships of the human systems.

- Learn basic anatomical and physiological terminology.
- Learn the human structure at cellular, tissue, and system level (endocrine, circulatory, respiratory, digestive, urinary, reproductive systems for Biol 2402), and be able to identify major structures at human models and animal dissections.
- Understand how body systems are interrelated to maintain the homeostasis as a whole.
- Learn the concepts and mechanisms of normal physiological processes in endocrine, circulatory, respiratory, digestive, urinary, reproductive systems, and explain how those processes are impaired under abnormal conditions.
- Perform relevant lab activities or tests to apply the learned physiological principles in professional cases.
- Discuss the relevance of specific anatomical structures or their related functions to clinical applications to better understand the relationship between structure and function.

Core Curriculum Statement: Intellectual Competencies:

1. Reading: the ability to analyze and interpret a variety of printed materials-books, documents, and articles- above the 12th grade level.
2. Writing: the ability to produce clear, correct and coherent prose adapted to purpose, occasion and audience above the 12th grade level.
3. Speaking: ability to communicate orally in clear, coherent, and persuasive language appropriate to purpose, occasion, and audience –above the 12th grade level.
4. Listening: analyze and interpret various forms of spoken communication, possess sufficient literacy skills of writing, reading- above the 12th grade level.
5. Critical Thinking: think and analyze at a critical level.
6. Computer Literacy: understand our technological society, use computer-based technology in communication, solving problems, and acquiring information

BIOLOGY 2401: ANATOMY & PHYSIOLOGY SPRING 2018

WEEK	LECTURE TOPIC	CH.	LAB TOPIC
Jan 15	Martin Luther King Holiday on Monday Classes start on Tuesday Introduction Cells: structures, division & transport	1 3	Safety & Check-in The Language of Anatomy Organ Systems Overview Anatomage- Medical Terminology (Monday sections will do these next week)
Jan 22	Tissues	4	The Microscope The Cell: Anatomy and Division
Jan 29	Tissues continued	4	The Cell: Transport Mechanisms and Cell Permeability Classification of Tissues
Feb 05	LECTURE EXAM 1 (CHAPTER 1- 4) Integumentary System	5	Classification of Tissues (continued) The Integumentary System Anatomage- Liposarcoma (suggested)
Feb 12	Osseous Tissue & Bone Structure	6	LAB PRACTICAL 1
Feb 19	Skeleton	7-8	Overview of the Skeleton The Axial Skeleton Anatomage- Skeletal System Identification Anatomage- Bullet through the Skull (suggested)
Feb 26	Articulations No Class Thursday & Friday (TCCTA Meetings)	9	The Appendicular Skeleton (Thurs & Friday sections will do these next week)
Mar 05	LECTURE EXAM 2 (CHAPTER 5-9) Muscle Tissue	10	Articulations and Body Movements Anatomage- Damaged Knee (suggested)
Mar 12	No Class - Spring Break		No Lab-Spring Break
Mar 19	Muscular System	11	Microscopic Anatomy & Organization of Skeletal Muscle Gross Anatomy of the Muscular System Anatomage- Musculoskeletal exercise
Mar 26	Neural Tissue No Class Friday - Spring Holiday	12	Gross Anatomy of the Muscular System (continued) Mink Muscle Dissection – bring gloves
Apr 2	Spinal Cord & Spinal Nerves	13	LAB PRACTICAL 2
Apr 9	LECTURE EXAM 3 (CHAPTER 10- 13) Brain & Cranial Nerves April 12 – LAST DAY TO WITHDRAW	14	Histology of Nervous Tissue Gross Anatomy of the Brain and Cranial Nerves The Spinal Cord and Spinal Nerves Brain Dissection - bring gloves
Apr 16	Special Senses	17	Special Senses: Olfaction and Taste Human Reflex Physiology Special Senses: Hearing and Equilibrium Anatomage- Nerve Identification Pain in the Butt (suggested)
Apr 23	Neural Integration	15	Special Senses: Anatomy of the Visual System Special Senses: Visual Tests and Experiments Cow Eye Dissection – bring gloves
Apr 30	Autonomic Nervous System	16	LAB PRACTICAL 3
May 07	Final Exam (Chapter 14-17 + Cumulative)		