

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)

**Dr. K. Carver, Professor of Biology**

(The schedule and grades in this syllabus may change at the discretion of the Professor)

Dear Students

First thanks to all of you for choosing Richland College for the continuation of your education, and welcome to my course.

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. Even if there will be no official course grading policy on attendance; 5 extra credits will be given at the end of this course for full attendance. If there is a conflict in your schedule, contact me ASAP.

No make-up lab practical: if you cannot attend your own section's scheduled lab practical, you will need to attend another lab period during the lab practical time.

Please make sure that you already purchase the code for mastering A&P, you should buy one from the store in the campus no online or other campus can work the only one that will work.

Wish best of luck and again welcome and please make sure to read and understand Richland College policies and the quality of the enhancement plan established by the college for your success.

Regards

Dr. Carver

**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](#)

(<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 <http://www.rlc.dcccd.edu/advising/> for more details. Also, consult the **Advising Syllabus**

(<https://alt.richlandcollege.edu/assets/uploads/2015/02/AdvisingSyllabus.pdf>) regularly to check if you are on track.

**College Policies and Procedures:**

Institutional Policies relating to this course can be accessed from the following link: [www.richlandcollege.edu/syllabipolicies](http://www.richlandcollege.edu/syllabipolicies)

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**Semester and Year:** Summer2018  
**Section:** [BIOL-2401-85004](#)  
**Class time and days:** 06/05/18 to 07/06/18  
**Class time and days:** Lecture: MTWR 2:00PM-4:00PM, WH265

Lab: MTWR, 11:50AM-01:50PM, RLSH, SH131

**Instructor:** **Dr. CARVER**  
**Contact Info:** send email  
[KathyCarver@dcccd.edu](mailto:KathyCarver@dcccd.edu)  
 Office: ACCESS  
**Last date to withdraw:** Thursday, June 27  
**Final Exam Day/time:** Your final is during your last class period

<b>Academic Progress:</b>	Students are encouraged to discuss academic goals and degree completion with their instructors. Specific advising is available throughout the semester. Check <a href="http://richlandcollege.edu/admissions">http://richlandcollege.edu/admissions</a> and <a href="http://richlandcollege.edu/advising">http://richlandcollege.edu/advising</a> for more details.
<b>Institution Policies</b>	For Institution Policies, please refer students to <a href="http://richlandcollege.edu/assets/uploads/2015/01/institutionPolicies.pdf">http://richlandcollege.edu/assets/uploads/2015/01/institutionPolicies.pdf</a> .
<b>Syllabus Change Disclaimer</b>	The instructor reserves the right to amend a syllabus as necessary.

**Evaluation Procedures:**

This may change at the discretion of the instructor.

Course grade is determined as follows:

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

[This may change at the discretion of the instructor.]

<b>5 Lecture exams (@100pts)</b>	<b>500</b>
<b>mini-lab practical (3@100pts each)</b>	<b>300</b>
<b>Pre-lab/lectures quizzes (in eCampus) – 5</b>	<b>80</b>
<b>Mastering A&amp;P homework (12)</b>	<b>120</b>
<b>TOTAL</b>	<b>1000</b>

- **LAB points:** The pre-lab quizzes are due every Monday. If you are not in lab that day, you get no pre-lab/quizzes points: There are **no make-ups** for a missed mini-lab practical.
- **Groupwork (Mastering Biology):**

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

**Attendance Policy:** 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. There is no make-up lab practical: if you cannot attend your own section's scheduled lab practical, you will need to attend another lab period during the lab practical time.

**You are expected to be in class every period.** Missing any 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 the cited date-. 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:**

**Your text, lab book, and Mastering A&P homework are all good for BOTH semester. Do not buy anything extra. HOWEVER, if you are coming from another campus or college, here is the info you need:**

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 (11th ed.)—2 choices**

- Mastering A&P with eText - ISBN 013447869x or 9780134478692  
The bookstore carries 3 hole punch unbound text as well as regular clothbound text, if you would rather have one of those, instead of the etext).
- IF YOU ALREADY HAVE A TEXTBOOK, and just need the MAP access---**can buy directly from *masteringaandp.com*** (which then changes to <https://www.pearsonmylabandmastering.com/northamerica/masteringaandp/>, oddly enough).

**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 (11<sup>th</sup> 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.**

**You can enter Mastering A&P in 2 ways—through the link in eCampus, using the Mastering A&P button OR you can go DIRECTLY into MAP with <http://www.pearsonmylabandmastering.com/> .**

#### **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](http://www.rlc.dcccd.edu/medcareers)
- This class DEMANDS group interactive skills, both in lab and lecture. Be aware that you will have to COOPERATE with lab partners, in addition to collaborative work groups in the lecture class. 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 nonadult, 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.*

- Assignments are DUE at the beginning of class on the day it is due. If it is 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 class time, 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.
- **NO WHINING IS ALLOWED!!!**

**"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.**

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

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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) for more details. Also, consult the Advising Syllabus <http://richlandcollege.edu/assets/uploads/2015/02/advising-syllabus.pdf> regularly to check if you are on track.

### **CORE CURRICULUM Statement of Purpose**

Through the Texas Core Curriculum, students gain a foundation of knowledge of human cultures and the physical and natural world, develop principles of personal and social responsibility for living in a diverse world, and advance intellectual and practical skills that are essential for all learning.

#### **Core Objectives for the Sciences:**

- Critical Thinking Skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
- Communication Skills - to include effective development, interpretation and expression of ideas through written, oral and visual communication
- Empirical and Quantitative Skills - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
- Teamwork - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.

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**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.

- 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 12<sup>th</sup> grade level.
2. Writing: the ability to produce clear, correct and coherent prose adapted to purpose, occasion and audience above the 12<sup>th</sup> grade level.
3. Speaking: ability to communicate orally in clear, coherent, and persuasive language appropriate to purpose, occasion, and audience –above the 12<sup>th</sup> grade level.
4. Listening: analyze and interpret various forms of spoken communication, possess sufficient literacy skills of writing, reading- above the 12<sup>th</sup> 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  
SUMMER I 2018 RICHLAND COLLEGE**

<b>Date</b>	<b>Lecture topic</b>	<b>Chapt</b>	<b>Lab topic</b>
6/5 T	Introduction to anatomy/physiology	1	Lab Safety, lecture
6/6 W	Biochemistry (review gen chem <u>yourself</u> ) Cells (review cell structure, cell transport, DNA/protein synthesis yourself)	2 3	Language of Anatomy Organ systems, Microscope
6/7 R	Cells	3*	Cell anatomy/division
6/8 F	<b><u>LECTURE EXAM1</u></b> (Intro-Cells), Tissues	4*	Tissues, Cell transport <i>QUIZ</i>
6/11 M	Tissues Integumentary System	4 5*	Tissues Integumentary System/Membranes
6/12 T	Integumentary System	5	<b><u>PRACTICAL</u></b>
6/13 W	Skeletal system	6*	Skeleton: Overview Axial Skeleton & Fetal Skull <i>QUIZ</i>
6/14 R	<b><u>LECTURE EXAM2</u></b> (Tissues→ skin) Skeletal system	7-8	Appendicular Skeleton
6/18 M	Joints Muscle Tissue	9* 10*	Articulations, Muscles: Intro start muscle ID
6/19 T	Muscle Tissue	10	Muscles: Human <i>QUIZ</i>
6/20 W	Muscle Tissue Muscle System (1 <sup>st</sup> section + levers)	10 11	Muscles: Mink <b>GLOVES!</b>
6/21 R	<b><u>Lecture Exam3</u></b> (bone-muscle system) Nervous System	12*	<b><u>PRACTICAL</u></b>
6/25 M	Nervous Tissue Spinal Cord & Spinal Nerves	12 13*	Nervous tissue, Brain & cranial nerves <b>GLOVES!</b>
6/26 T	<b><u>LECTURE EXAM4</u></b> (Nervous system- Spinal nerves) Brain & Cranial Nerves	14	Brain and cranial nerves <b>GLOVES!</b>
6/27 W	Brain & Cranial Nerves	14*	Spinal cord and spinal nerves Reflex Physiology
6/28 R	Brain & Cranial Nerves Neural Integration II	15	Vision <b>GLOVES</b> <i>QUIZ</i>

7/2 M	Special Senses LAST DAY TO DROP WITH A 'W'	17*	Hearing/equilibrium Taste/olfaction	<i>QUIZ</i>
7/3 T	Special Senses		<b><u>PRACTICAL</u></b> 17-26	
7/4 W	<b>July 4 Holiday – NO CLASSES</b>		<b>NO CLASSES ON HOLIDAY</b>	
7/5 R	Autonomic NS and Higher Functions	16	<b>NO LAB</b> (review for final)	
7/6 F	<b><u>FINAL EXAM</u></b> (Brain → senses)		<b>NO LAB</b>	

\* Mastering A&P homework