Dr. Stephen Slaughter

Semester and Year: Spring 2019
Section: 83503
Class time and days: Lecture: W 8:30 – 11:15 Lab: M 8:30p – 11:50p
Room: Lecture: WH160 Lab: SH131
Instructor: Stephen Slaughter
Contact Info: sslaughter@dccc.edu, 972-238-6140
Office:
Office hours: During Lab/After Class
Last date to withdraw: Thursday, Nov 15
Final Exam Day/time: TBA

Evaluation Procedures:
A = 90-100%, B = 80-90%, C = 70-80%, D = 60-70%, less than 60% = F.
This may change at the discretion of the instructor.

Course grade is determined as follows:

<table>
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<tr>
<th>Points</th>
<th>Grade</th>
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<tbody>
<tr>
<td>585-650</td>
<td>A</td>
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<tr>
<td>520-584</td>
<td>B</td>
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<tr>
<td>455-519</td>
<td>C</td>
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<tr>
<td>390-454</td>
<td>D</td>
</tr>
<tr>
<td>less than 480</td>
<td>F</td>
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</table>

- **LAB points:** The pre-lab quizzes are due before lab starts. If you are not in lab that week, you get no pre-lab points; however, there will be a couple of extra ones you can use as drops. There are no make-ups for a missed mini-lab practical.
- **In-Class Groupwork:** You will see many case studies and worksheets done in groups in the classroom. If you are absent for class, you will miss these points. These will count as part of the major exams, usually around 10-12 points. NO make-ups for this!
- **Videos for class:** I have made multiple videos for each chapter—each about 10-15 minutes long. You need to watch the video BEFORE the day that we cover that topic. There will be many short, 4pt quizzes (5-6 questions on the video). This means that you are familiar with the material before coming to class. I will spend time in class going over the harder concepts, things that you have questions about, and case studies. Case studies really enhance and develop your critical thinking skills.
- **Exams:** 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.
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, 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 Thursday, Nov 15. 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 for Biol 2401_ 2019_Spring:


3 Options for students to buy:


(Notes:
* The 11th edition updated in Fall 2017. Previous editions are OK.
* The regular MAP system (not modified MAP) is used. Besides the above 3 options, students can buy the MAP access code directly from masteringaandp.com or https://www.pearsonmylabandmastering.com/northamerica/masteringaandp/.

It is mandatory for the online "Homework & Prelab Quizzes".)


(Notes:
* The full edition of the lab manual (new or used) or used customized lab manual is OK.)

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.

Get into Mastering A&P with http://masteringaandp.com --register for the homework system, by using the COURSE ID F18REYNOLDS81002.

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, 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, 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.

• 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.**

**College Policies and Procedures:**

For Institution Policies, please refer to Richland College Institution Policies (http://www.richlandcollege.edu/syllabusinfo/)
Catalog Course Description

Prerequisite Required: BIOL 1406 with a grade of "C" or better within the last three years or satisfactory score on the Biology CLEP exam. Students must be college level ready in Reading and Writing.

Course Description: Anatomy and Physiology I is the first part of a two course sequence. It is a study of the structure and function of the human body including cells, tissues and organs of the following systems: integumentary, skeletal, muscular, nervous and special senses. The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. This is a transferable Major's course intended for those seeking to complete a Bachelor's Degree. (3 Lec., 3 Lab.)

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.

Upon successful completion of this course, students will:
1. Use anatomical terminology to identify and describe locations of major organs of each system covered.
2. Explain interrelationships among molecular, cellular, tissue, and organ functions in each system.
3. Describe the interdependency and interactions of the systems.
4. Explain contributions of organs and systems to the maintenance of homeostasis.
5. Identify causes and effects of homeostatic imbalances.
6. Describe modern technology and tools used to study anatomy and physiology.

The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include integumentary, skeletal, muscular, nervous, and special senses.

Learning Outcomes

Upon successful completion of this course, students will:
1. Apply appropriate safety and ethical standards.
2. Locate and identify anatomical structures.
3. Appropriately utilize laboratory equipment, such as microscopes, dissection tools, general lab ware, physiology data acquisition systems, and virtual simulations.
4. Work collaboratively to perform experiments.
5. Demonstrate the steps involved in the scientific method.
6. Communicate results of scientific investigations, analyze data and formulate conclusions.
7. Use critical thinking and scientific problem-solving skills, including, but not limited to, inferring, integrating, synthesizing, and summarizing, to make decisions, recommendations and predictions.

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.
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)

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) 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.

BIOLOGY 2401: ANATOMY & PHYSIOLOGY SPRING 2019

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<thead>
<tr>
<th>Week of</th>
<th>LECTURE TOPIC</th>
<th>CH.</th>
<th>LAB TOPIC</th>
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<tbody>
<tr>
<td>Jan 21</td>
<td>Martin Luther King Holiday on Monday Classes start on Tuesday Introduction Cells: structures, division &amp; transport</td>
<td>1 3</td>
<td>Safety &amp; Check-in The Language of Anatomy Organ Systems Overview Anatomage- Medical Terminology (Monday sections will do these next week)</td>
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<td>Jan 28</td>
<td>Tissues</td>
<td>4</td>
<td>The Microscope The Cell: Anatomy and Division</td>
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<tr>
<td>Feb 4</td>
<td>Tissues continued</td>
<td>4</td>
<td>The Cell: Transport Mechanisms and Cell Permeability Classification of Tissues</td>
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<td>Feb 11</td>
<td>LECTURE EXAM 1 (CHAPTER 1-4) Integumentary System</td>
<td>5</td>
<td>Classification of Tissues (continued) The Integumentary System Anatomage- Liposarcoma (suggested)</td>
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<td>Feb 18</td>
<td>Osseous Tissue &amp; Bone Structure</td>
<td>6</td>
<td>LAB PRACTICAL 1</td>
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<td>Feb 25</td>
<td>Skeleton No Class Thursday &amp; Friday (TCCTA Meetings)</td>
<td>7-8</td>
<td>Overview of the Skeleton The Axial Skeleton Anatomage- Skeletal System Identification Anatomage- Bullet through the Skull (suggested) (Thurs &amp; Friday sections will do these next week)</td>
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<td>Mar 4</td>
<td>Articulations</td>
<td>9</td>
<td>The Appendicular Skeleton</td>
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<td>Mar 11</td>
<td>No Class - Spring Break</td>
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<td>No Lab-Spring Break</td>
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<td>Mar 18</td>
<td>LECTURE EXAM 2 (CHAPTER 5-9) Muscle Tissue</td>
<td>10</td>
<td>Articulations and Body Movements Anatomage- Damaged Knee (suggested)</td>
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<td>Apr 1</td>
<td>Neural Tissue</td>
<td>12</td>
<td>Gross Anatomy of the Muscular System (continued) Mink Muscle Dissection – bring gloves</td>
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<td>Apr 8</td>
<td>Spinal Cord &amp; Spinal Nerves</td>
<td>13</td>
<td>LAB PRACTICAL 2</td>
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<tr>
<td>Apr 15</td>
<td>LECTURE EXAM 3 (CHAPTER 10-13) Brain &amp; Cranial Nerves April 17 – LAST DAY TO WITHDRAW No Class Friday - Spring Holiday</td>
<td>14</td>
<td>Histology of Nervous Tissue Gross Anatomy of the Brain and Cranial Nerves The Spinal Cord and Spinal Nerves Brain Dissection - bring gloves</td>
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<td>Date</td>
<td>Topic</td>
<td>Week</td>
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<td>Apr 22</td>
<td>Special Senses</td>
<td>17</td>
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<td>Special Senses: Olfaction and Taste</td>
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<td>Human Reflex Physiology</td>
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<td>Special Senses: Hearing and Equilibrium</td>
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<td>Anatomage- Nerve Identification</td>
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<td>Pain in the Butt (suggested)</td>
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<td>Apr 29</td>
<td>Neural Integration</td>
<td>15</td>
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<td>Special Senses: Anatomy of the Visual System</td>
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<td>Special Senses: Visual Tests and Experiments</td>
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<td></td>
<td>Cow Eye Dissection – bring gloves</td>
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<td>May 6</td>
<td>Autonomic Nervous System</td>
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<td>LAB PRACTICAL 3</td>
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<tr>
<td>May 13</td>
<td>Final Exam</td>
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<td>(Chapter 14-17 + Cumulative)</td>
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The instructor reserves to right to change the syllabus as needed.