

Biology 2457, Spring 2018  
**Human Anatomy and Physiology I**  
Section 500 Online  
January 15 - March 9

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This course is on Blackboard. To access Blackboard: Go to <http://elearn.uta.edu> and log in with your NetID and password. To access course materials, click the **Course Materials** link on the left hand side menu.

**Course Prerequisites:** Biology 1441 or equivalent, and approval of the department.

**Course Description:** Functional morphology of humans, cellular function, principles of support and movement, and neural and endocrine control systems. Laboratory exercises involve both anatomical and experimental aspects of principles introduced in the lecture. This class is recommended for pre-allied health professionals.

**This course satisfies the University of Texas at Arlington core curriculum requirement in life and physical sciences.** The italicized student learning outcomes required of core courses below will be assessed for each student in the lecture portion of the course. The case study will be assessed to determine how a student has mastered critical thinking, communication, and empirical and quantitative skills. A teamwork assessment (peer evaluation) will be completed by each student to determine how students work together in groups to achieve the student learning outcomes described below.

**Student Learning Outcomes:**

- Students will adequately demonstrate their knowledge of the basic structures and organization of the integumentary, skeletal, muscular and nervous systems.
- Students will apply their knowledge of molecular and cellular biology to relevant physiological processes, demonstrating their ability to engage in innovative thinking, scientific data collection, and analysis and interpretation of quantitative information using the scientific method.
- *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.

**Lecture & Lab Materials:** **You only need to purchase a textbook.** *Fundamentals of Anatomy & Physiology*, Martini & Nath and Bartholomew, 9th - 11th edition. **There is NO lab book or kit to purchase.** The labs are all on blackboard. I have redesigned the course so that it is completely online. There is no lab safety quiz to take; ignore those emails if they are sent to you.

**GRADING:** In this course you will be graded on lecture quizzes, lecture exams, lab assignments, lab practicals, a final exam and participation in a discussion forum.

**There is a quiz on the syllabus that you must complete:** You must take a pass/fail syllabus quiz to gain access into the course. This quiz is available as soon as you have access to the course under the syllabus link in the menu on the left. It is due by the end of the first week of class. This quiz will allow you to become familiar with the testing environment and the course. You must get all the questions correct before moving forward in the course. You may take this quiz as many times as possible, **however the last time should be a PASS.**

Note, this is your practice in the testing environment, use it as such! If you make an error on an actual test due to unfamiliarity with the testing environment in Blackboard, it is your own fault and credit will not be given. This is also your chance to figure out the Respondus Lockdown Browser and make sure it is working properly before taking your first exam.

**RESPONDUS LOCKDOWN BROWSER:** This course uses the Respondus Lockdown Browser software to prevent cheating. You need to install the software before taking any exams, including the syllabus quiz. Here is the link: <http://www.respondus.com/lockdown/download.php?id=163943837>

You do not need to use a web cam. **To take an exam using this software, EXIT Blackboard and click the Respondus icon on your computer.** You will be directed to Blackboard, you will log on and then go to the test you are taking. If it asks for a password, you are not in Respondus. Exit Blackboard and click the Respondus icon. For problems and/or how-to questions: <http://support.respondus.com>

**LECTURE:** The lecture section is worth 60% of the total grade and consists of 4 lecture exams and 17 quizzes. There is also a discussion forum (signature assignment) and a comprehensive final exam.

**LAB:** The lab section is worth 40% of the total grade and consists of 9 lab assignments and 3 lab practicals. You do NOT have to complete lab safety training for this course before starting the lab.

All graded materials are each worth 100 points and are **weighted** as follows:

### Grading Conventions

4 Lecture Exams.....	35%
1 Comprehensive Final.....	10%
17 Lecture Quizzes.....	10%
1 Discussion.....	5%
Syllabus Quiz	Pass/Fail
3 Lab Practicals.....	30%
9 Labs.....	10%

There is a folder under the Start Here link in Blackboard that explains exactly how to calculate your grade. You cannot simply add your points and divide by the total.

### Grading Scale:

Percentages	Grade				
89.5 - 100	A	69.5 - 79.4	C	0 - 59.4	F
79.5 - 89.4	B	59.5 - 69.4	D		

**\*Note:** Your total course score is a weighted percentage, therefore an 88% is NOT two points away from an A; it could be up to ten points away. There is a tutorial on how to calculate your grade under the Syllabus link in Blackboard. MyMav automatically pulls your grade out of Blackboard; it cannot be changed by the instructor.

**Exam, Quiz, & Lab Details:** All graded materials are due at the end of the specified week. A "week" in this course begins on a Monday and ends on **Sunday at 11:59 pm central time**. The course week schedule can be found on Blackboard under Course Materials at the top of the page. Each module will specify which week the grades materials are due. Your coach will send you a reminder each week, but it is your responsibility to keep up with the work. \*Note the last week is only 5 days long instead of the usual 7 days. The last week ends on a FRIDAY, not a Sunday.

**Final Exam:** The final exam is cumulative, covering chapters 1-17. The final is 100 multiple choice questions; you have **ninety minutes** to take it. I reuse your lecture quiz questions only; this is a very good way to boost your grade at the end of the semester. **There is NO make-up for the final exam.** You must access the final exam through the Respondus Lockdown Browser.

**Lecture Exams:** There are four lecture exams. All lecture exams are 50 multiple choice questions. You have **60 minutes** to take each exam. **Blackboard will automatically submit your answers after the allotted time has expired.** **There are NO make-up exams.** If you miss an exam, by failing to log on and complete the exam when it is available online, then you will receive a zero for the missed exam. You must access lecture exams through the Respondus Lockdown Browser.

Exam 1: ch 1-5

Exam 2: ch 6-9

Exam 3: ch 10-13

Exam 4: ch 14-17

**Lecture Quizzes:** We will cover 17 chapters in the text (ch 1-17). There is a lecture quiz on each chapter. All quizzes are multiple choice questions. You have 45 minutes to take each quiz. **Blackboard will automatically submit your answers after the allotted time has expired.** You **may use your books for these quizzes**, but should read the chapter and familiarize yourself with the material before attempting the quiz. 45 minutes is not long enough to look up all of the questions. There are **NO make-up quizzes**. If you miss a quiz, by failing to log on and complete the quiz when it is available online, then you will receive a zero.

**Discussion Forum:** The discussion forum is the signature assignment for this course which will aid the instructor in assessing *critical thinking, communication, quantitative skills, and team work*. Students will participate in the discussion by posting four comments. You should post at least one original comment and three comments on other students' posts. Please write the student's name your referring to in your comment. You have until **week 4** to complete this assignment. Comments should be constructive and relevant. **Comments that are disrespectful or inappropriate will result in a grade of zero for the entire assignment.** This assignment must be completed in full to received credit, no partial credit will be awarded.

**Laboratory Practicals:** There are 3 lab practicals. All laboratory practicals are 50 multiple choice questions each. You have **50 minutes** to complete the lab practical. **Blackboard will automatically submit your answers after the allotted time has expired.** The lowest lab practical score will NOT be

dropped. **There are NO make-up lab practicals.** If you miss a lab practical, by failing to log on and complete the practical when it is available online, then you will receive a zero for the missed practical. You must access lab practicals through the Respondus Lockdown Browser.

Lab Practical 1: labs 1-3 (skeletal system)

Lab Practical 2: labs 4-6 (muscular system)

Lab Practical 3: labs 7-9 (nervous system)

**Lab Assignments:** There are nine lab assignments; these assignments are not timed. **There are NO make-up lab assignments.** If you miss a lab assignment, by failing to log on and complete the assignment when it is available online, then you will receive a zero for the missed assignment.

**Lab Assignments:**

- |   |  |
|---|--|
| 1. Anatomical Terms & Position          | 6. Muscular System Physiology          |
| 2. Axial & Appendicular Skeleton        | 7. Organization of the Nervous System  |
| 3. Joints & Body Movement               | 8. Gross Anatomy of the Nervous System |
| 4. Organization of the Muscular System  | 9. Reflex & Sensory Physiology         |
| 5. Gross Anatomy of the Muscular System |  |

**Grading Penalties for Lateness:** You have the following allotted time limits:

Exams: 60 minutes

Quizzes: 45 minutes

Lab Practical: 50 minutes

**Blackboard will automatically submit your answers after the allotted time has expired.** These times have been set at a pace that shows me you know the answer without looking up information in your book or online while taking the test. If you cannot complete the assignments in this time frame, you do not know the material well enough.

**Due Date:** Your calculated grade on a test (quiz, exam, or lab practical) or lab assignment will be reduced by a penalty of **1 point per hour**, for every hour that you exceed the due date up to 24 hours. **After that 24 hours (Monday 11:59 pm), late work may not be submitted.** If you submit work a day late, that is a 24 point deduction. Make sure you submit the tests and assignments before their due dates pass! A "week" in this course begins on Monday and ends on Sunday at 11:59 pm. All materials for each week are due by midnight of Sunday. The weekly schedule is listed on the Course Materials page at the top and on the left side menu under Assignment Schedule.

**Check Your Answers:** Please check your answers before submitting your quiz, exam or practical. If you mistakenly select the wrong answer, you will NOT be given back any points. It is easy to select "A" and slide the mouse and "B" actually gets selected. **BE CAREFUL and double check your answers BEFORE you submit!**

**BLACKBOARD TECHNICAL ISSUES:**

Because you have signed up for an online course, your internet service and connection are your responsibilities. Make sure you have updated, fast, reliable service. **HAVE A BACKUP PLAN** just in case your internet connection goes out. This has happened due to power outages and weather. Plan accordingly. Don't use an iPad, the software does not align with the software in BB.

**It is your responsibility to go through the Student Resources and FAQ's on the menu to learn how to use Blackboard.** You are taking an online course; you must know how to use your platform! I expect you are responsible enough to do this on your own and will assume you have done so **before** your begin the course. Do not email me with technical questions without trying to determine what you may have done first to receive an error message. You may call the help desk at any time and seek assistance: helpdesk@uta.edu or 817.272.2208.

Make sure you have an updated version of Java; Blackboard requires Java to run. Do not double click in the testing environment. It slows Blackboard down.

If you do receive an error message while in the Blackboard testing environment, **log right back in and keep going. The TIMER DOES NOT STOP!!!** You should not receive any error messages if you follow the directions below and familiarize yourself with the testing environment. If you experience technical difficulties during an exam, it is best to log back in and keep going. **I cannot award points or let you retake exams or practicals due to technical difficulties.** I cannot stress this enough. Prevention is key! Most students never experience any issues and then there are a few that continue to have problems the entire time. Most of these troubled students never read the syllabus closely or followed my instructions to learn their testing environment on the Student Resource page. Take responsibility and know your testing environment!

It happens time to time that your internet connection disconnects or the power goes out or you double clicked in the testing environment, did not update JAVA or have more than one window open which forces Blackboard to kick you out. If this happens during a timed assignment, **LOG BACK IN IMMEDIATELY**; the **TIMER KEEPS RUNNING** even when you are logged out. The second you click on a timed assignment, the timer starts and does not stop until you hit submit.

**ACADEMIC INTEGRITY:** It is the philosophy of The University of Texas at Arlington that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures. Discipline may include suspension or expulsion from the University. "Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts." (Regents' Rules and Regulations, Part One, Chapter VI, Section 3, Subsection 3.2, Subdivision 3.22)

**Note:** Blackboard will give you an error message and kick you out of the testing environment if you attempt to open another window while in any of the testing environments. This is to prevent looking up answers.

**Dropping the Course:** Please note that the **last day to withdraw from class with a "W" is February 19th.** Be aware that after this date you will receive an academic grade in the course. Initiating the drop procedure is the student's responsibility. The instructor cannot remove a student from the course. The student must contact their advisor to do so.

\*Note all material in BB is copyrighted through UTA. Selling any of these materials, including Dr. Frederick's notes, will subject an individual to copyright infringement and can result in both civil and criminal penalties.

## **Success in Anatomy & Physiology**

This is a fast paced course with an overwhelming amount of material. Lecture PowerPoint slides have been provided for you to aid in your studying, but are by no means a substitute for reading your text book. You must keep up and stay on top of the schedule or you will quickly get behind and there is no catching up in an eight week course. Plan ahead, I cannot stress this enough.

Reading is passive learning. Do not expect to read the chapter and be prepared to take an exam. You need to memorize, which takes active learning. Try flashcards, making outlines, explaining the material in your own words out loud, drawing, mnemonics, etc. Do not count on being able to look answers up while taking the exam. You must know the material thoroughly to succeed. My exams are very tough and for good reason. This is a science class with extremely important information that you must know to do your job well. You cannot learn this material short term and forget it. You never know what information you may need, so do not discredit material simply because it does not apply to your field.

Stay positive and focused. If you are struggling with the amount of material, good news, you are normal! Everyone struggles with this information the first time they learn it. Do not get discouraged or be self-defeating. You can do it; it will take serious commitment and dedication of your time. Most importantly- do not give up. Remember learning anything new is difficult. You did not hop on a bike and just start riding down the street. You had to practice. You will have to practice in this class too. Nothing that is worth your while comes easy in life. So work hard and expect the best out of yourself.

“Make the most of yourself, for that is all there is of you.”      -Ralph Waldo Emerson