

**HUMAN ANATOMY & PHYSIOLOGY II**  
**Biology 2458-010**, Fall 2016  
MWF 1:00-1:50  
100 Nedderman Hall

**Instructor:** Dr. Lee Ann Frederick

**Office:** 465 Life Science Building

**Office Hours:** MWF 2:00 - 3:00 or by appointment

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**Faculty Profile:** <https://www.uta.edu/mentis/public/#profile/profile/edit/id/4019/>

**Course Prerequisites:** Biology 2457, Human A&P I

**Required Textbook(s):**

**LECTURE** – *Human Anatomy & Physiology*, Marieb & Hoehn 10th edition (ISBN 0321927044)

Modified code: 0133994988 (etext plus mastering A&P)

**LAB** – *Laboratory Manual for Anatomy and Physiology*, Fetal Pig Version by Elaine N. Marieb and Lori A. Smith

**Course Description:** This course introduces the basic anatomical terms of the human body, reviews cellular & molecular concepts from Biology 1441 to be applied at the systematic level, and covers the structure and function of the integumentary, skeletal, muscular and nervous systems. The emphasis of the lecture portion of the class will be on the physiology and the laboratory will focus on anatomy. This class is recommended for pre-allied health professionals.

**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.

**Attendance:** At The University of Texas at Arlington, taking attendance is not required but attendance is a critical indicator in student success. Each faculty member is free to develop his or her own methods of evaluating students' academic performance, which includes establishing course-specific policies on attendance. *As the instructor of this section, attendance is not mandatory. Due to the volume and intensity of the material to be covered throughout the semester it is not likely you will pass if you do not attend every day.*

However, while UT Arlington does not require instructors to take attendance in their courses, the U.S. Department of Education requires that the University have a mechanism in place to mark when Federal Student Aid recipients "begin attendance in a course." UT Arlington instructors will report when students begin attendance in a course as part of the final grading process. Specifically, when assigning a student a grade of F, faculty report the last date a student attended their class based on evidence such as a test, participation in

a class project or presentation, or an engagement online via Blackboard. This date is reported to the Department of Education for federal financial aid recipients.

**Drop Policy:** Please note that the last day to withdraw from class with a "W" is **November 2nd by 4:00 pm**. Be aware that after this date you will receive an academic grade in the course. Initiating the drop procedure is the student's responsibility.

**Specific Course Requirements with Descriptions: Lecture 65%, Lab 35%**

3 Lecture Exams	(100 pts each)	300 pts
1 Comprehensive Final		100 pts
Total lecture grade		400 pts

$389/400 = 97.25 = 97.25\%$ in lecture $97.25 \times 0.65 = 63.21$ Lab 92% $92 \times 0.35 = 32.2$ Grade: $63.21 + 32.2 = 95.4$ , A
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**Grading Scale:**

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

**Exams:** All exams are multiple choice and require a Scantron form 882-ES, a #2 pencil and an ID. There are three lecture exams. The lecture exams are 50 multiple choice questions. If you know you have a schedule conflict with an exam date, you must notify your professor within the first week of class. All exams count; there are no drops. Exams are curved up to an average of 70%. ID's are required for every exam (drivers license is acceptable). If you forget your ID, it is minus one point.

**Disability Accommodations:** UT Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including *The Americans with Disabilities Act (ADA)*, *The Americans with Disabilities Amendments Act (ADAAA)*, and *Section 504 of the Rehabilitation Act*. All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of disability. Students are responsible for providing the instructor with official notification in the form of a **letter certified** by the Office for Students with Disabilities (OSD). Only those students who have officially documented a need for an accommodation will have their request honored. Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting:

**The Office for Students with Disabilities, (OSD)** [www.uta.edu/disability](http://www.uta.edu/disability) or calling 817-272-3364. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at [www.uta.edu/disability](http://www.uta.edu/disability).

**Counseling and Psychological Services, (CAPS)** [www.uta.edu/caps/](http://www.uta.edu/caps/) or calling 817-272-3671 is also available to all students to help increase their understanding of personal issues, address mental and behavioral health problems and make positive changes in their lives.

**Non-Discrimination Policy:** *The University of Texas at Arlington does not discriminate on the basis of race, color, national origin, religion, age, gender, sexual orientation, disabilities, genetic information, and/or veteran status in its educational programs or activities it operates. For more information, visit [uta.edu/eos](http://uta.edu/eos).*

**Title IX Policy:** The University of Texas at Arlington ("University") is committed to maintaining a learning and working environment that is free from discrimination based on sex in accordance with Title IX of the Higher Education Amendments of 1972 (Title IX), which prohibits discrimination on the basis of sex in educational programs or activities; Title VII of the Civil Rights Act of 1964 (Title VII), which prohibits sex discrimination in employment; and the Campus Sexual Violence Elimination Act (SaVE Act). Sexual misconduct is a form of sex discrimination and will not be tolerated. *For information regarding Title IX, visit [www.uta.edu/titleIX](http://www.uta.edu/titleIX) or contact Ms. Jean Hood, Vice President and Title IX Coordinator at (817) 272-7091 or [jmhood@uta.edu](mailto:jmhood@uta.edu).*

**Academic Integrity:** Students enrolled all UT Arlington courses are expected to adhere to the UT Arlington Honor Code: *I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.*

*I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.*

UT Arlington faculty members may employ the Honor Code in their courses by having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System *Regents' Rule* 50101, §2.2, suspected violations of university's standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student's suspension or expulsion from the University. Additional information is available at <https://www.uta.edu/conduct/>.

**Campus Carry:** Effective August 1, 2016, the Campus Carry law (Senate Bill 11) allows those licensed individuals to carry a concealed handgun in buildings on public university campuses, except in locations the University establishes as prohibited. Under the new law, openly carrying handguns is not allowed on college campuses. For more information, visit <http://www.uta.edu/news/info/campus-carry/>

**Emergency Exit Procedures:** Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exit, which is located out the doors to the left or right. When exiting the building during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist handicapped individuals.

**Bomb Threats:** If anyone is tempted to call in a bomb threat, be aware that UTA will attempt to trace the phone call and prosecute all responsible parties. Every effort will be made to avoid cancellation of presentations/tests caused by bomb threats. Unannounced alternate sites will be available for these classes. Your instructor will make you aware of alternate class sites in the event that your classroom is not available.

**Student Success Services:** The University of Texas at Arlington supports a variety of student success programs to help you connect with the University and achieve academic success. They include learning assistance, developmental education, advising and mentoring, admission and transition, and federally funded programs. Students requiring assistance academically, personally, or socially should contact the Office of Student Success Programs at 817-272-6107 for more information and referrals. Supplemental instruction may be available for this course.

**After Hours Safety Escort :** The Sam Mav Escort service provides a service to assist students, faculty, staff and campus visitors to reach their destinations after regular business hours. The hours of service are 7:00 p.m. to 1:00 a.m., Sunday through Saturday. 817-272-3381.

**MavMail:** All students are assigned an email account and information about activating and using it is available at [www.uta.edu/email](http://www.uta.edu/email). New students (first semester at UTA) are able to activate their email account 24 hours after registering for courses. There is no additional charge to students for using this account, and it remains active as long as a student is enrolled at UTA. **Students are responsible for checking their email regularly.**

**Student Feedback Survey:** At the end of each term, students enrolled in face-to-face and online classes categorized as "lecture," "seminar," or "laboratory" are directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student's feedback via the SFS database is aggregated with that of other students enrolled in the course. Students' anonymity will be protected to the extent that the law allows. UT Arlington's effort to solicit, gather, tabulate, and publish student feedback is required by state law and aggregate results are posted online. Data from SFS is also used for faculty and program evaluations. For more information, visit <http://www.uta.edu/sfs>.

**Final Review Week:** for semester-long courses, a period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week *unless specified in the class syllabus*. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

**Blackboard:** All class notes, grades and information, including this syllabus can be found on Blackboard. Helpful study tips and techniques are also available here. If you have any questions, please check Blackboard first, if you still cannot find the information you are looking for, then you may email me.

**Tentative Lecture Schedule:** As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. –Dr. Frederick  
*This follows the Marieb text, the coinciding Tortora text chapters are in blue.*

Monday	Wednesday	Friday
29 16/18: Endocrine System	31 16: Endocrine System	2 16: Endocrine System
5 Labor Day	7 17/19: Blood	9 17: Blood
12 17: Blood	14 18/20: Heart	16 18: Heart
19 18: Heart	21 Exam 1 16-18/18-20	23 Review Exam 1
26 19/21: Blood Vessels	28 19: Blood Vessels	30 19: Blood Vessels
3 20/22: Lymphatic System 21/22: Immune System	5 21: Immune System	7 21: Immune System
10 22/23: Respiratory System	12 22: Respiratory System	14 22: Respiratory System
17 Exam 2 19-22/21-23	19 Review Exam 2	21 23/24: Digestive System
24 23: Digestive System	26 23: Digestive System	28 24/25: Metabolism
31 24: Metabolism	2 Drop Date 24: Metabolism	4 25/26: Urinary System
7 25: Urinary System	9 25: Urinary System	11 Exam 3 23-25/24-26
14 Review Exam 3	16 26/27: Electrolyte, pH balance	18 27: Electrolyte, pH balance
21 27/28: Reproductive System	23 No Class	25 Thanksgiving
28 27: Reproductive System	30 27: Reproductive System	2 28: Development 29: Development & Genetics
5 28: Development	7 29: Heredity	9
12 Final Exam 11-1:30	14	16

**How to study for MY class:** I teach out of the book and my powerpoints come from the book. The best way to study is read the book *before* class, come to lecture to work out anything you didn't understand and determine which information I deem most important (yes, I tell you in class). Go back over your notes after class and mark any information you still don't understand and get that taken care of first. Read that section again in the book or come to my office hours for help. Make an outline using the powerpoints- organize the info so you can retain it more efficiently. Memorize all definitions and structures, then memorize the physiology (concepts and steps). Then practice and review; use the practice exams I post for you on Blackboard, use the book. RECALL from your brain, do not just read your notes! Explain concepts in your own words. Reading is passive learning and does not work for 97% of people! Do not simply "look over your notes"- it will not work! Find active ways to study: recall, writing, drawing, speaking, etc.