

# HUMAN ANATOMY & PHYSIOLOGY II

## Biology 2458-008

**Instructor:** Dr. Lee Ann Frederick

**Office:** 465 Life Science Building

**Office Hours:** 11:00 - 12:00 MWF or by appointment

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

**Section Information:** Biol 2458-008

**Time and Place of Class Meetings:** 2:00-3:20 pm T/Th, 298 Seir Building

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

### Required Textbook(s):

**LECTURE** – *Human Anatomy & Physiology*, Marieb & Hoehn 11th with Modified Mastering Biology

**LAB** – There is no lab manual to purchase. Lab is online.

**Course Description:** This course covers the structure and function of the endocrine, cardiovascular, digestive, respiratory, immune, urinary, reproductive systems as well as electrolyte balance and basic genetics. This class is recommended for nursing majors and 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 and Drop Policy:** Attendance is not mandatory. Due to the volume and intensity of the material to be covered it is not likely you will pass if you do not attend every day.

**Please note that the last day to withdraw from class with a "W" is March 29th 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

$289/300 = 96.3 = 96\%$ in lecture $93 \times 0.65 = 62.4$ Lab 92% $92 \times 0.35 = 32.2$ Grade: $62.4 + 32.2 = 94.6$ , 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 two 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 (license is ok).

**Americans with Disabilities Act:** The University of Texas at Arlington is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 93112 -- The Rehabilitation Act of 1973 as amended. With the passage of new federal legislation entitled Americans with Disabilities Act - (ADA), pursuant to section 504 of The Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens.

As a faculty member, I am required by law to provide "reasonable accommodation" to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing faculty at the beginning of the semester and in providing authorized documentation through designated administrative channels. If you require an accommodation based on disability, I would like to meet with you in the privacy of my office, during the first week of the semester, to make sure you are appropriately accommodated.

**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)

**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 calls in a bomb threat, UTA traces the phone call and prosecutes 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.**

**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.

**Study Tips:** Reading your chapter **before** class is essential for understanding the lecture. Study groups may help (stay focused!). There is a lot of material covered extremely quickly in a five week summer course- you must stay on top of the material! That means studying every single day- and that is after you went to class and lab and read the book. If you like having a social life, this course is not for you!

### Tentative Lecture Schedule:

Monday	Tuesday	Wednesday	Thursday	Friday
	Jan 15 Syllabus		17 Ch 16: Endocrine System	
	22 Ch 16: Endocrine System		24 Ch 16: Endocrine System	
	29 Ch 17: CV System-Blood		31 Ch 17: CV System-Blood	
	Feb 5 Ch 18: CV System-Heart		7 Ch 18: CV System-Heart	
	12 <b>Exam 1</b> Ch 16-18		14 Ch 19: CV System-Blood Vessels	
	19 Ch 19: CV System-Blood Vessels		21 Ch 19 & Ch 20/21: Lymphatic/ Immune System	
	26 Ch 20/21: Lymphatic/ Immune System		28 Ch 22: Respiratory System	
	Mar 5 Ch 22: Respiratory System		7 <b>Exam 2</b> Ch 19-22	
	<b>Spring</b>		<b>Break</b>	
	19 Ch 23: Digestive System		21 Ch 23: Digestive System	
	26 Ch 24: Metabolism		28 Ch 24: Metabolism	Mar 29 Drop Date
	Apr 2 Ch 25: Urinary System		4 Ch 25: Urinary System	
	9 <b>Exam 3</b> Ch 23-25		11 Ch 26: Electrolytes	
	16 Ch 26: Electrolytes		18 Ch 27: Reproductive System	
	23 Ch 27: Reproductive System		25 Ch 28: Development	
	30 Ch 28: Development/ Ch 29: Genetics		May 2 Ch 29: Genetics	3 Last Day of Classes
	7 Final Exam 2:00-4:30			

**How to study for MY class:** My exams are written from my powerpoints which come from the book. Come to lecture and determine which information I deem most important (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. Re-watching lectures is also a great way to study!