BIO 2443-02
HUMAN ANATOMY
FALL 2022

Lecture: T & Th 4:30 – 5:45pm LH247; **Lab**: T 6:00-8:00pm Spencer 229/235
INSTRUCTOR: Dr. Adam Gunn, PT & Fran Nault
OFFICE: LH247/229/235
OFFICE HOURS: Available as needed via email or pre-arranged on campus meeting
EMAIL: agunn@uarichmountain.edu

RESOURCES:
Lecture Text: *Hole's Human Anatomy and Physiology* 14th ed; Shier, Butler, Lewis.
Laboratory Manual: *Laboratory Manual for Hole's Human Anatomy and Physiology* 14th (Cat Version); Martin. Package ISBN: 978 125 9681240
Optional Lecture/Laboratory: Atlas of Human Anatomy (Netter Basic Science) 7th Edition, ISBN 13: 978-0323393225, ISBN-10: 0323393225

COREQUISITES: Enrollment in Human Anatomy Lab BIO-2441L is also required

COURSE DESCRIPTION: Human Anatomy is a course designed to meet the needs of allied health students, exercise physiology students, and all other students interested in human structure and function. The course provides a study of the structure, and necessary functioning, of the integumentary system, muscular system, skeletal system, nervous system, and cell structure and metabolism of tissues in those organ systems. Laboratory is an integral co-requisite for this course and participation is required for successful completion of this course. This course is a prerequisite for Human Physiology

Food and Drink: Food and drinks, including water are not allowed in the classroom at any time.

Program outcome and rationale: The knowledge and critical thinking skills acquired in the general education component enable students to analyze problems, arrive at intelligent conclusions, and make reasoned choices in their professional and personal lives. This course provides a basic, yet comprehensive, knowledge of the human body for any and all medical purposes: to familiarize students with the organization of the human body, to develop an understanding of the functions of the organ systems including pathologies (diseases) that affect these systems.

COURSE OBJECTIVES: Upon completion of this course, the student will be able to:
1. Be able to effectively utilize anatomical terminology including use of appropriate relative anatomical terms as it relates to regions, directions, body planes, and cavities of the body.
2. Understand the basic concept of chemistry, such as atomic and molecular structure, and biologically important molecules.
3. Understand the structure and function of a basic animal cell
4. Understand the fundamentals of DNA replication, protein synthesis, and cellular respiration.
5. Understand the different types of tissues and their significance within the human body.
6. Understand basic anatomy for the following human body systems: skeletal, integumentary, muscular, and nervous.
7. Be able to use microscopes, lab equipment, and computer technology to research information on human anatomy and relevant physiology.

8. Attain a basic understanding of the structures and relationships of the human body, and be able to use this information in a medical career or other biological discipline.

Tentative Lecture Schedule for Human Anatomy

	SUBJECT		CHAPTER
	Introduction to Human Anatomy		1
	Chemical Basis of Life		2
	Cells		3
	Cellular Metabolism		4
Sept. 8	**EXAM I**		
	Tissues		5
	Skin and the Integumentary System		6
Sept. 29	**EXAM II (Midterm Oct 11th)**		
	Skeletal System		7
	Joints of the Skeletal System		8
	Muscular System		9
Oct. 27	**EXAM III**		
	Nervous System I		10
	Nervous System II		11
	Nervous System III		12
Nov. 21-25	*****Thanksgiving Holiday - no class**		
Dec. 1	**EXAM IV**		
Dec. 7-13	**Finals Week**	**Comprehensive Final**	**TBA**

Last Day to Drop a course or Withdraw with a "W" – December 6

Disclaimer: The information contained in this syllabus is as accurate as possible, but may be subject to change with reasonable advance notice. The schedule and content of lectures and assignments may be changed at the discretion of the instructor upon oral notification in class. Changes may involve additions, deletions, substitutions, or changes in sequence or due date.

COURSE CONDUCT: Classroom presentation is basically of the lecture-demonstration type. Lecture will be over the pre-assigned chapters with PowerPoints delivered as a visual aid. This will be supplemented with various scientific models, representative specimens, supplemental handouts, and special projects. Students should take notes and are expected to study beyond the lab and classroom and manage their time to develop good study habits for this course.

UARM CREDIT HOUR CALCULATOR: For every course credit hour, you should expect to spend at least three clock hours per week of concentrated attention on course-related work, including but not limited to time attending class, as well as out-of-class time spent reading, reviewing, organizing notes, preparing for upcoming quizzes/exams, problem solving, developing and completing homework, and other activities that enhance learning. For a three hour course, a typical student should expect to spend at least nine hours per week dedicated to the course. This includes the time spent in class.

COURSE REQUIREMENTS: Students are required to ***READ*** the material in the textbook and ***take notes*** over the lectures. It is advisable to read at least 5 pages in the assigned chapter daily). If you wait until the day before the test to read the chapter, study the notes, and learn the vocabulary, you will not do well on the exams.

COURSE EVALUATION: Student performance in the course will be based on the following factors:

Lecture Exams:	4 @ 100 points each	= 400 points *
Quizzes:	5-10 @ 10 points each	= 50-100 points
Comprehensive Exam	1 @ 200 points	= 200 points
TOTAL POINTS POSSIBLE		**= 650-700 points ****

GRADING SCALE:

A = 100 - 90%
B = 89 - 80%
C = 79 - 70%
D = 69 - 60%
F = 59% or lower

EXAMS: Exam dates are given in the syllabus and students are required to take all the tests offered including the Comprehensive final. Exam questions will be taken from lecture notes, laboratory exercises, discussion, audiovisuals, handouts, textbook and other assignments. Many exam questions will require use of this material and critical thinking to conclude the answer. Exams may include all or any combination of the following types of questions: multiple choice, true/false, short-answers, fill-in-the blank, draw and label, matching, and short answer.

Comprehensive Final - 100 multiple choice questions taken from the semester material.

1. **Everyone must take the comprehensive final.**

* 2. If an exam is missed, potential credit may be carried over to the next exam IF GIVEN PERMISSION FROM THE INSTRUCTOR BASED ON REASONING FOR THE MISSED

EXAM. (Example- if exam #2 is missed with an excused absence, exam 3 will be worth 200 points)

LECTURE/LAB QUIZZES – Approximately 10 quizzes will be given throughout the semester during lecture and/or laboratory periods. The quizzes will consist of questions related to laboratory exercises performed, assigned readings, and related lecture information.

ATTENDANCE REQUIREMENTS: As a student, you are responsible for all material presented during lecture, whether present for the class or not. Assignments are to be completed in a timely fashion; therefore all make-up work must be completed within 5 calendar days of your return following an absence. Unexcused absences are not to exceed twice what the class meets in a week. Laboratory is a required part of this course and failure to attend or participate **will** result in an "F" for this course. For further information, see "Student Attendance" on page 70 of the 2017/2018 UARM Academic Catalog.

> **Make-up Policy:** A student who misses an assignment because of an officially sanctioned college activity or those with a documented excuse for their absence, will be permitted to make up the assignment or test without penalty. Any deviation from this policy will be considered on a case-by-case basis.

Academic Dishonesty: Instances of academic dishonesty, *i.e., "cheating,"* will be dealt with in accordance with those policies outlined in the current UARM Student Handbook.

Cellphone usage policy: Use of personal cell phones in class is prohibited **unless it is an emergency.** Failure to abide by policy results in a *verbal warning* upon first offense, and *10 point deduction* in grade with each additional offense after a verbal warning has been given.

Additional Information: Food and drinks are not permitted in this class. **Please make sure that your cell phone and any other electronic devices are turned off (or to silent mode) during the class session**.

Disability Policy: It is the policy of UARM to accommodate students with disabilities, pursuant to state and federal law. Any student with a disability who needs accommodations should contact the Vice President for Student Affairs Office, 394-7622 ext.1400.

Title IX and Discrimination Policy: UA Rich Mountain adheres to a policy that enables all individuals regardless of race, color, gender, national origin, age, religion, sexual orientation, veteran's status, or disability, to work and study in an environment unfettered by discriminatory behavior or acts. Harassment of an individual or group will not be condoned, and any person (student, faculty, of staff member) who violates this policy will be subject to disciplinary action.

Harassment that is considered discriminatory includes actions or conduct (verbal, graphic, gestural, or written) directed against any person or group with the intent to demean or create a hostile or threatening environment. It is not the intent of this policy to infringe upon or limit educational, scholarly, or artistic expression. Any person who believes he or she has been discriminated against should contact the Title IX Coordinator to obtain assistance and information concerning the filing of a complaint.

Face mask policy: Students are encouraged but not required to wear face masks in class and public spaces.

Attendance Policy: For attendance purposes, a student who is displaying symptoms of illness must email: contact.tracing@uarichmountain.edu to determine next steps for an excused absence related to COVID or flu. Contacting an instructor **DOES NOT** start this process or guarantee an excused absence.

Arkansas Clean Air Act: In compliance with the Arkansas Clean Air Act, UARM is a smoke and tobacco free facility. Students and guests are to refrain from the use of all tobacco products while on campus.

Student Misconduct: Students committing misconduct are subject to disciplinary sanction(s) and or restrictions. Misconduct or prohibited behavior includes, but is not limited to endangerment, harassment, disruption, sexual misconduct, dishonesty, illegal drugs and/or alcohol, fire or safety issues, gambling, property violations, computer violations or other violations as listed in detail in the UARM catalog.

UARM Mission: University of Arkansas Rich Mountain provides transformative education to all learners.

Campus Security: UA Rich Mountain strives to provide a safe learning environment; therefore, students who know of any security risk are asked to contact a college official. For more information follow this link and look under the title Health and Safety: http://www.uarichmountain.edu/at-a-glance/disclosures