**BIO 2443-01**
# HUMAN ANATOMY
**FALL 2020**

**Lecture**: T 8:00 - 9:20pm OC, & F 4:30-5:50 Spencer 229/235; **Lab**: F 9:30-11:30pm Spencer 229/235
**INSTRUCTOR:** Dr. Adam Gunn, PT, DPT
**OFFICE:** OC/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
**Course CONNECT:** https://connect.mheducation.com/class/a-gunn-2020-2021

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

**COURSE DESCRIPTION:** Human Anatomy is the first semester of a two semester 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

**Face Mask Policy:** As per the Executive Order from the governor of Arkansas, all students are required to wear a proper face covering that completely covers the nose and mouth while on campus and in class. Masks with holes or masks that do not completely cover nose and mouth are not acceptable. Any student that does not have a proper mask will leave class and be referred to the Vice Chancellor for Student Affairs for possible disciplinary action.

**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 anatomic terminology including use of appropriate relative anatomical terms as it relates to regions, directions, body planes, and cavities of the body.
2. Understand homeostasis and how it is controlled in the human body.

3. Understand the basic concept of chemistry, such as atomic and molecular structure, and biologically important molecules.
4. Understand the structure and function of a basic animal cell
5. Understand the fundamentals of DNA replication, protein synthesis, and cellular respiration.
6. Understand the different types of tissues and their significance within the human body.
7. Understand basic anatomy for the following human body systems: skeletal, integumentary, muscular, and nervous.
8. Be able to use microscopes, lab equipment, and computer technology to research information on human anatomy and relevant physiology.
9. 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. 11** | **EXAM I** | |
| | Tissues | 5 |
| | Skin and the Integumentary System | 6 |
| **Oct. 2** | **EXAM II (Midterm Oct 12th)** | |
| | Skeletal System | 7 |
| | Joints of the Skeletal System | 8 |
| | Muscular System | 9 |
| **Oct. 30** | **EXAM III** | |
| | Nervous System I | 10 |
| | Nervous System II | 11 |
| | Nervous System III | 12 |
| **Nov. 25-27** | *****Thanksgiving Holiday - no class** | |

| | | | |
|---|---|---|---|
| **Dec. 4** | **EXAM IV** | | |
| **Dec. 7-10** | **Finals Week** | **Comprehensive Final** | **TBA** |

Last Day to Drop a course or Withdraw with a "W" – December 4th

**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 * |
| LearnSMART: | 12 @ 5 points each | = 60 points ** |
| Quizzes: | 5 @ 10 points each | = 50 points |
| Comprehensive Exam | 1 @ 200 points | = 200 points |
| **TOTAL POINTS POSSIBLE** | | **= 650 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)

**LEARNSMART –** These learning assignments are administered through the CONNECT site and assigned as we start each chapter. These are graded based on completion of the assignment on time, with 5 possible points per assignment. **** Your Opportunity for Bonus 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. Others may also make up missed exams, but will be penalized 20% for each occurrence. 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.

**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 exists to provide all residents of the Ouachita Mountain Region with exemplary educational and enrichment opportunities to improve the quality of life and standard of living.

**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