

# Medical Human Anatomy

## Course Syllabus

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**Course Number:** GMS 5605

**Credit Hours:** Three (3) credit hours

**Course Format:** This online course is tailored for asynchronous distance learners.

### **Course Description:**

Medical Human Anatomy will be taught using a combined regional and systemic approach to examine the relationships and organization of the major structures within the thorax, abdomen, head/neck, and back/limbs regions of the human body. Organization of human anatomy is correlated with diagnostic imaging and pathophysiology. Medical-based scenarios will be used to develop “problem solving” and “critical thinking” skills.

### **Prerequisites:**

This post-graduate course is designed to meet the needs of those BA and BS graduates who want to pursue a medical career. This course will provide an essential foundation for students who wish to pursue a “change-in-career” to a health profession or have not met the admission requirements of medical school. This advance medical anatomy course will require a strong science foundation of five (5) full-semester science courses related to Biology, Chemistry, and/or Physics.

### **Contacts:**

If you have questions about the course or its content contact the **Course Coordinator**, Dr. Kyle Rarey ([rarey@ufl.edu](mailto:rarey@ufl.edu)), Professor, Department of Anatomy & Cell Biology. For technical questions or concerns, contact Phi Nguyen ([pnguyen8080@ufl.edu](mailto:pnguyen8080@ufl.edu)).

**Schedule:** The course is offered every term, including the summer.

### **Course Goals:**

The goals of the course are three-fold: (1) to provide a foundation of the fundamental concepts and terminology of the anatomy of the human body; (2) to discuss anatomical organization into functional systems related to medical correlations; and (3) to promote critical thinking of the clinical consequences of anatomical injuries, musculoskeletal disorders, pulmonary diseases, gastrointestinal abnormalities, and renal pathophysiology.

### **Learning Outcomes:**

Upon completion of this course, students will be able to:

1. Demonstrate an understanding of the basic anatomical terminology as it relates to its organization to form the functional systems of the human body;
2. Describe the anatomical structures of the human body relative to systems, location, and planes of the body;
3. Demonstrate an understanding of the primary functions of the major systems of the human body;

4. Develop problem solving skills to describe possible pathologic outcomes of system dysfunction;
5. Demonstrate critical thinking skills to evaluate how alterations in anatomical structures and changes in system function will lead to medical conditions.

### Learning Resources:

1. Unit overviews, recorded lectures with PowerPoint presentations, and other multimedia resources will be provided on the course web site.
2. Required text: **Principles of Human Anatomy**, 13<sup>th</sup> or 14<sup>th</sup> Edition, by Tortora, G.J. and Nielsen, M., John Wiley & Sons, 2014. The information in the required text is coordinated with online lecture materials.  
**\*\* You can purchase the electronic version of the text with the access code at [www.wileyplus.com](http://www.wileyplus.com). The online access is not required for this course. Use this document for registration instructions [WileyPlus Flyer](#).** Practice online quizzes that consist of multiple-choice questions will be available for each module of study.
3. Clinical exercises in anatomical injuries, musculoskeletal disorders, pulmonary diseases, gastrointestinal abnormalities, and renal pathophysiology will be used to promote critical thinking.

### WileyPlus Web Portal (optional)

There are activities and readings at the website that can enhance your learning. Once you have purchased the textbook with electronic access, go to <https://wileyplus.com> to log in into the textbook site.

### Examinations and Grading:

One examination consisting of 50 multiple-choice questions (each valued of 2 points) will be given for each module. Each exam will be worth 100 points and will be timed. Students will have to take all examinations at a computer with a web camera. Exams will be secured and proctored using HonorLock. More about HonorLock: [Getting Started with HonorLock](#); [HonorLock Student Prep](#); [HonorLock Student Privacy](#)

4 module examinations = Total 400 possible points

### Course Outline

| Module | Activity   | Reading Assignment      |
|--------|--|-------------------------|
| 1-1    | Organization of the Human Body<br>1-1 Outline<br>1-1 A&B Web-based Lecture<br>1-1 Overview Session<br>1-1 Post-Lecture Quiz                                    | Tortora, Chapter 1      |
| 1-2    | Skeletal System<br>1-2 Outline<br>1-2A Web-based Lecture<br>1-2B Web-based Lecture<br>1-2 Overview Session<br>1-2A Post-Lecture Quiz<br>1-2B Post-Lecture Quiz | Tortora, Chapters 7 & 8 |
| 1-3    | Muscular System<br>1-3 Outline<br>1-3A Web-based Lecture<br>1-3B Web-based Lecture<br>1-3 Overview Session   | Tortora, Chapter 11     |

|                                      |   |                     |
|--------------------------------------|---|---------------------|
|                                      | 1-3 Post-Lecture Quiz   |                     |
| 1-4                                  | Joints of the Extremities<br>1-4 Outline<br>1-4A Web-based Lecture<br>1-4B Web-based Lecture<br>1-4 Overview Session<br>1-4 Post-Lecture Quiz | Tortora, Chapter 9  |
| 1-5                                  | Surface Anatomy<br>1-5 A&B Outline<br>1-5 A&B Web-based Lecture<br>1-5 Overview Session<br>1-5 Post-Lecture Quiz                              | Tortora, Chapter 27 |
| <b>Module 1 Examination (online)</b> |   |                     |

| Module                               | Activity  | Reading Assignment   |
|--------------------------------------|---|----------------------|
| 2-1                                  | Brain & Cranial Nerves<br>2-1 Outline<br>2-1A Web-based Lecture<br>2-1B Web-based Lecture<br>2-1 Overview Session<br>2-1 Post-Lecture Quiz      | Tortora, Chapter 18  |
| 2-2                                  | Spinal Cord & Spinal Nerves<br>2-2 Outline<br>2-2A Web-based Lecture<br>2-2B Web-based Lecture<br>2-2 Overview Session<br>2-2 Post-Lecture Quiz | Tortora, Chapter 17  |
| 2-3                                  | Autonomic Nervous System<br>2-3 A&B Outline<br>2-3 A&B Online Lecture<br>2-3 Overview Session<br>2-3 Post-lecture Quiz                          | Tortora, Chapters 19 |
| 2-4                                  | Lymphatic System<br>2-4 A&B Outline<br>2-4 A&B Online Lecture<br>2-4 Overview Session<br>2-4 Post-lecture Quiz                                  | Tortora, Chapter 15  |
| <b>Module 2 Examination (online)</b> |   |                      |

| Module | Activity   | Reading Assignment        |
|--------|--|---------------------------|
| 3-1    | Respiratory System<br>3-1 Outline<br>3-1A Web-based Lecture<br>3-1B Web-based Lecture<br>3-1 Overview Session<br>3-1A Post-lecture Quiz<br>3-1B Post-lecture Quiz    | Tortora, Chapter 23       |
| 3-2    | Cardiovascular System<br>3-2 Outline<br>3-2A Web-based Lecture<br>3-2B Web-based Lecture<br>3-2 Overview Session<br>3-2A Post-lecture Quiz<br>3-2B Post-lecture Quiz | Tortora, Chapters 13 & 14 |
| 3-3    | Superior & Posterior Mediastinum<br>3-3 A&B Outline<br>3-3 A&B Web-based Lecture<br>3-3 Overview Session<br>3-3 Post-lecture Quiz                                    | Tortora, Chapters 13 & 14 |
| 3-4    | Digestive System<br>3-4 Outline<br>3-4A Web-based Lecture<br>3-4B Web-based Lecture<br>3-4 Overview Session  | Tortora, Chapter 24       |

|                                      |  |
|--------------------------------------|--|
| 3-4A Post-lecture Quiz               |  |
| 3-4B Post-lecture Quiz               |  |
| <b>Module 3 Examination (online)</b> |  |

| Module                               | Activity   | Reading Assignment  |
|--------------------------------------|--|---------------------|
| 4-1                                  | Urinary System<br>4-1 A&B Outline<br>4-1 A&B Web-based Lecture<br>4-1 Overview Session<br>4-1 Post-lecture Quiz                                | Tortora, Chapter 25 |
| 4-2                                  | Male Reproductive System<br>4-2 Outline<br>4-2A Web-based Lecture<br>4-2B Web-based Lecture<br>4-2 Overview Session<br>4-2 Post-lecture Quiz   | Tortora, Chapter 26 |
| 4-3                                  | Female Reproductive System<br>4-3 Outline<br>4-3A Web-based Lecture<br>4-3B Web-based Lecture<br>4-3 Overview Session<br>4-3 Post-lecture Quiz | Tortora, Chapter 26 |
| <b>Module 4 Examination (online)</b> |  |                     |

## Grading Scale

|    |   |         |    |   |        |
|----|---|---------|----|---|--------|
| A  | = | 93-100% | C+ | = | 77-79% |
| A- | = | 90-92%  | C  | = | 73-76% |
| B+ | = | 87-89%  | C- | = | 70-72% |
| B  | = | 83-86%  | D+ | = | 67-69% |
| B- | = | 80-82%  | D  | = | 63-66% |
|    |   |         | D- | = | 59-62% |
|    |   |         | E  | < | 59%    |

I = An incomplete grade will be given if a student fails to complete the course as scheduled.

Information on current UF grading policies for assigning grade points can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

## Make-Up Exam Policy:

Students are required to take all four modular examinations. Makeup exams are given only under special circumstances. If the student is unable to take a scheduled modular examination, the course director must be notified before the examination. In addition, a written letter of explanation, requesting that the absence from the exam be excused, must be presented before the exam or immediately afterwards. An excused absence is allowable when: 1) the student is hospitalized and/or has been advised by a licensed medical practitioner or hospital not to attend the exam, 2) if there is a documented death of an immediate family member, or 3) the examination falls on a religious holiday. All excused absences will be considered on an individual basis by the course director. With the exception of highly extenuating circumstances, failure to follow the prescribed procedures will result in a grade of zero for that exam. Further information about the policies for attendance and religious holidays for The University of Florida can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

## Assignments:

The course is divided into 4 modules. Each module consists of selected chapters with specific reading assignments. For each module students will: (1) review the learning objectives and corresponding lecture notes; (2) read and complete the assignments as given; (3) complete interactive exercises associated with each module; (4) take online practice examinations; and (5) take the scheduled, online module examination.

**Attendance:**

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found in the online catalog at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>. A student’s overall success, however, is based upon following the course schedule for learning the assigned readings and practicing the recommended exercises. Students are strongly encouraged to develop self-discipline to complete all text readings and online exercises, including the practice examinations.

**Academic Integrity:**

Please review the University’s complete policy regarding academic dishonesty, found online in the student handbook: <https://regulations.ufl.edu/wp-content/uploads/2018/06/4.040-1.pdf>

Students are expected to abide by the University’s Academic Honesty Policy, and to adhere to the following pledge:

“We, the member of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.”

On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied:

“On my honor, I have neither given nor received unauthorized aid in doing this assignment.”

According to the UF Student Guide, Academic dishonesty includes the following.

Cheating - copying another’s work for academic gain.

Plagiarism - representing another’s work as your own.

Bribery - offering, giving, soliciting, or receiving goods or services of value for academic gain.

Misrepresentation - altering facts (e.g., signing an absent classmate’s name to an attendance sheet).

Conspiracy - planning with others to commit academic dishonesty.

Fabrication - making up information to avoid punishment or other difficulty.

**Copyright Information:**

Please also review the use of copyrighted materials: <http://guides.uflib.ufl.edu/copyright>

**Accommodation Policy:**

Students requesting classroom accommodation must first register with the Dean of Students’ office, 202 Peabody Hall, 352-392-1261. The DSO will provide documentation to the student who must then provide this documentation to the instructor.

## **Student Support Services**

As a student in a distance learning course or program you have access to the same student support services that on campus students have. For course content questions contact your instructor.

For any technical issues you encounter with your course please contact the UF computing Help Desk at 352-392-4357. For Help Desk hours visit: <http://helpdesk.ufl.edu/>.

For a list of additional student support services links and information please visit:

<http://www.distance.ufl.edu/student-services>

## **Special Accommodations**

Students requesting disability-related academic accommodations must first register with the Disability Resource Center. <https://disability.ufl.edu/>

The Disability Resource Center will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

## **Complaints**

Should you have any complaints with your experience in this course please visit

<http://www.distance.ufl.edu/student-complaints> to submit a complaint.

## **Online Course Evaluation Process:**

Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at <https://ufl.bluera.com/ufl/>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results>.

## **Campus Resources:**

Health and Wellness

U Matter, We Care:

If you or a friend is in distress, please contact [umatter@ufl.edu](mailto:umatter@ufl.edu) or 352 392-1575 so that a team member can reach out to the student.

Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc/Default.aspx>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

*Sexual Assault Recovery Services (SARS)*

Student Health Care Center, 392-1161.

*University Police Department*, 392-1111 (or 9-1-1 for emergencies).

<http://www.police.ufl.edu/>

Academic Resources

*E-learning technical support*, 352-392-4357 (select option 2) or e-mail to [Learning-support@ufl.edu](mailto:Learning-support@ufl.edu). <https://lss.at.ufl.edu/help.shtml>

*Career Resource Center*, Reitz Union, 392-1601. Career assistance and counseling.

<http://www.crc.ufl.edu/>

*Library Support*, <http://cms.uflib.ufl.edu/ask>. Various ways to receive assistance with respect to using the libraries or finding resources.