

# Medical Anatomy Laboratory

## Course Syllabus

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**Course Number:** GMS5606L

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

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

### Course Description:

The Medical Anatomy Laboratory is a study of human anatomy using regional and systemic approaches to examine the relationships and organization of the major structures within the body. There will be extensive use of images of human dissection combined with diagnostic imaging and pathophysiology.

The 4 modules of study available are:

Module 1: Back, Spinal Cord and Extremities (Musculoskeletal System)

Module 2: Skull, Face, Neck, Eye & Ear

Module 3: Respiratory System, Cardiovascular System, Digestive System

Module 4: Urinary System, and Male & Female Reproductive Systems

### Prerequisites:

This post-graduate course is designed to meet the needs of those BA and BS graduates that want to pursue a medical career. This course will provide an essential foundation for students that 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. It is recommended that a student take this laboratory course concurrent with the Medical Anatomy (GMS5605) or after completion of it.

### 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 this online laboratory course are to: (1) provide a strong anatomical foundation about the human body; and (2) assist students in a better understanding of the anatomical organization and relationships in different regions of the body.

### Learning Outcomes:

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

1. understand anatomical terminology;
2. correlate routine clinical imaging with specific anatomical structures;

3. identify anatomical structures and understand their organization and relationships within different regions of the human body; and
4. demonstrate critical thinking skills to evaluate selected medical conditions with alterations in anatomical structures (e.g., fracture, aneurysm).

### **Learning Resources:**

1. **Required Software Program:** Human Anatomy, Integrated Medical Curriculum from Dx R Development. Cost: \$30.00 for a 6 month subscription.

You may pay by credit card using the following link:

<http://www.dxrgroup.com/product/human-anatomy-ufl/>

Password: oldhat7

Contact Person: Diane Tennyson, Vice President/Administration & Sales, DxR Development Group, Inc., 1840 Innovation Drive, Suite 112, Carbondale, IL 62903, P: 618-453-1140, F: 618-453-5309, [diane.tennyson@dxrgroup.com](mailto:diane.tennyson@dxrgroup.com)

2. Recommended text: *Principles of Human Anatomy*, 13<sup>th</sup> or 14<sup>th</sup> Edition. Tortora, G.J. and Nielsen, M., John Wiley & Sons, 2014. It is highly recommended that you have access to this text if you are not taking GMS5605.

3. Practice on-line quizzes that consist of identification of given anatomy structures.

4. Clinical exercises relating anatomical structures to diagnostic images (e.g., X-ray, MRI, and CT scan) and anatomical abnormalities will be used to promote critical thinking.

5. Other multimedia resources will be provided at the course web site.

### **Syllabus**

Review the course Syllabus. You can download an Adobe PDF or a Microsoft Word version from the course homepage.

### **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	Learning Activities	Learning Resources
1-1	<p><b>Back, Spinal Cord, &amp; Scapula</b></p> <p>Online Labs #1, #2, #3</p> <p>Online Pre-laboratory Overview 1 &amp; 2</p> <p>UFCOM Anatomy Video Dissections</p> <p>Online Post-laboratory Overview</p> <p>Module Overview Session</p>	<p>Acland's video demonstration</p> <p>Text: Tortora, 13 Ed: Chapter 7, 17</p>
1-2	<p><b>Upper Extremities I</b></p> <p>Online Labs #4, #5, #6, #7</p> <p>Online Pre-laboratory Overview 1 &amp; 2</p> <p>UFCOM Anatomy Video Dissections</p> <p>Online Post-laboratory Overview</p> <p>Module Overview Session</p>	<p>Acland's video demonstration</p> <p>Text: Tortora, 13 Ed: Chapter 7, 17</p>
1-3	<p><b>Upper Extremities II</b></p> <p>Online Labs #8, #9, #10</p> <p>Online Pre-laboratory Overview 1 &amp; 2</p> <p>UFCOM Anatomy Video Dissections</p> <p>Online Post-laboratory Overview</p> <p>Module Overview Session</p>	<p>Acland's video demonstration</p> <p>Text: Tortora, 13 Ed: Chapter 7, 17</p>
1-4	<p><b>Lower Extremities I</b></p> <p>Online Lab #11, #12, #13, #14</p> <p>Online Pre-laboratory Overview 1 &amp; 2</p> <p>UFCOM Anatomy Video Dissections</p> <p>Online Post-laboratory Overview</p> <p>Module Overview Session</p>	<p>Acland's video demonstration</p> <p>Text: Tortora, 13 Ed: Chapter 9</p> <p>Acland's video demonstration</p> <p>Text: Tortora, 13 Ed: Chapter 9</p>
1-5	<p><b>Lower Extremities II</b></p>	<p>Acland's video demonstration</p>

	<p>Online Lab #15, #16, #17</p> <p>Online Pre-laboratory Overview 1 &amp; 2</p> <p>UFCOM Anatomy Video Dissections</p> <p>Online Post-laboratory Overview</p> <p>Module Overview Session</p>	Text: Tortora, 13 Ed: Chapter 7, 17
<b>Module 1 Examination (online)</b>		
<b>Module</b>	<b>Learning Activities</b>	<b>Learning Resources</b>
2-1	<p><b>Face &amp; Skull</b></p> <p>Online Labs #22, #23, #27</p> <p>Cranial Cavity</p> <p>Lab#28</p> <p>Online Pre-laboratory Overview 1 &amp; 2</p> <p>UFCOM Anatomy Video Dissections</p> <p>Online Post-laboratory Overview</p> <p>Module Overview Session</p>	<p>Acland's video demonstration</p> <p>Text: Tortora, 13 Ed: Chapter 7, 18</p>
2-2	<p><b>Neck</b></p> <p>Online Labs #24, #25, and #26</p> <p>Online Pre-laboratory Overview 1 &amp; 2</p> <p>UFCOM Anatomy Video Dissections</p> <p>Online Post-laboratory Overview</p> <p>Module Overview Session</p>	<p>Acland's video demonstration</p> <p>Text: Tortora, 13 Ed: Chapter 11</p>
2-3	<p><b>Pharynx, Larynx, Nasal Cavity, &amp; Oral Cavity</b></p> <p>Online Labs #31, #32, #33, and #34</p> <p>Online Pre-laboratory Overview 1 &amp; 2</p> <p>UFCOM Anatomy Video Dissections</p> <p>Online Post-laboratory Overview</p> <p>Module Overview Session</p>	<p>Acland's video demonstration</p> <p>Text: Tortora, 13 Ed: Chapter 23</p>

2-4	<b>Eye &amp; Ear</b>  Online Labs #29 & #30  Online Pre-laboratory Overview 1 & 2  UFCOM Anatomy Video Dissections  Online Post-laboratory Overview  Module Overview Session	Acland's video demonstration  Text: Tortora, 13 Ed: Chapter 21
<b>Module 2 Examination (online)</b>		
<b>Module</b>	<b>Learning Activities</b>	<b>Learning Resources</b>
3-1	<b>Respiratory System</b>  Online Labs #18 and #19  Online Pre-laboratory Overview 1 & 2  UFCOM Anatomy Video Dissections  Online Post-laboratory Overview  Module Overview Session	Acland's video demonstration  Text: Tortora, 13 Ed: Chapter 7, 23
3-2	<b>Cardiovascular System</b>  Online Lab #20  Online Pre-laboratory Overview 1 & 2  UFCOM Anatomy Video Dissections  Online Post-laboratory Overview  Module Overview Session	Acland's video demonstration  Text: Tortora, 13 Ed: Chapter 13, 14
3-3	<b>Superior &amp; Posterior Mediastinum</b>  Online Lab #21  Online Pre-laboratory Overview 1 & 2  UFCOM Anatomy Video Dissections  Online Post-laboratory Overview  Module Overview Session	Acland's video demonstration  Text: Tortora, 13 Ed: Chapter 23
3-4	<b>Digestive System</b>	Acland's video demonstration

	<p>Online Labs #35, #36, #37, #38, and #39</p> <p>Online Pre-laboratory Overview 1 &amp; 2</p> <p>Online Post-laboratory Overview</p> <p>Module Overview Session</p>	Text: Tortora, 13 Ed: Chapter 24
<b>Module 3 Examination (online)</b>		
<b>Module</b>	<b>Learning Activities</b>	<b>Learning Resources</b>
4-1	<p><b>Urinary System</b></p> <p>Online Lab #40</p> <p>Online Pre-laboratory Overview 1 &amp; 2</p> <p>Online Post-laboratory Overview</p> <p>Module Overview Session</p>	<p>Acland's video demonstration</p> <p>Text: Tortora, 13 Ed: Chapter 25</p>
4-2	<p><b>Male Pelvis &amp; Perineum</b></p> <p>Online Labs #42 &amp; #44</p> <p>Online Pre-laboratory Overview 1 &amp; 2</p> <p>Online Post-laboratory Overview</p> <p>Module Overview Session</p>	<p>Acland's video demonstration</p> <p>Text: Tortora, 13 Ed: Chapter 26</p>
4-3	<p><b>Female Pelvis &amp; Perineum</b></p> <p>Online Labs #41 &amp; #43</p> <p>Online Pre-laboratory Overview 1 &amp; 2</p> <p>Online Post-laboratory Overview</p> <p>Module Overview Session</p>	<p>Acland's video demonstration</p> <p>Text: Tortora, 13 Ed: Chapter 26</p>
<b>Module 4 Examination (online)</b>		

## Grading Scale

A = 93-100%

A- = 90-92%

B+ = 87-89%

B = 83-86%

B- = 80-82%<

C+ = 77-79%

C = 73-76%

C- = 70-72%

D+ = 67-69%

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 quizzes; 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.