Medical Anatomy Laboratory
Course Syllabus
Summer 2017

Course Number: GMS5606L

Credit Hours: Two (2) 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 E. Rarey, Professor, Department of Anatomy & Cell Biology and Otolaryngology.

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 months subscription.

   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

   You may pay by credit card using the following link:
   Password: oldhat7

2. **Recommended text:** *Principles of Human Anatomy*, 13th 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.

Course Participation

Points may be earned per module by actively posting fill-in-the-blank questions (FITBQs) at the
discussion site and the assignment site. Each FITBQ must have the rationales for the correct
answer. Each question with rationales will count as 2 points. One can submit a maximum of four
questions per week. Questions should be published before the weekly due date. Late submissions
will be valued less. Total possible participation points = 78 (3FITBQs × 2pts × 13wks)

Examinations and Grading:

One examination consisting of 50 fill-in-the-blank 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. A proctor will remotely monitor each student
during the exams. See the [ProctorU Student FAQs](http://www.dxrgroup.com/product/human-anatomy-ufl/) for more information.
4 module examinations = Total 400 possible points

Participation points from FITBQs = Total 78 possible points

The final grade will be calculated as follows:
Scores on 4 module examinations (a total of 400 points)
+ Scores on submitted fill-in-the-blank questions (a total of 78 points)
= Total points possible: 478 points.

In summary, the final grade will be the total number of points earned/478 (%). The final grade is broken down as follows:
- Module Exams: 84%
- Submitted Fill-in-the-blank Questions: 16%

**Grading Scale** (Correct out of a possible 478 points)

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>93-100%</td>
</tr>
<tr>
<td>A-</td>
<td>90-92%</td>
</tr>
<tr>
<td>B+</td>
<td>87-89%</td>
</tr>
<tr>
<td>B</td>
<td>83-86%</td>
</tr>
<tr>
<td>B-</td>
<td>80-82%</td>
</tr>
<tr>
<td>C+</td>
<td>77-79%</td>
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<tr>
<td>C</td>
<td>73-76%</td>
</tr>
<tr>
<td>C-</td>
<td>70-72%</td>
</tr>
<tr>
<td>D+</td>
<td>67-69%</td>
</tr>
<tr>
<td>D</td>
<td>63-66%</td>
</tr>
<tr>
<td>D-</td>
<td>59-62%</td>
</tr>
<tr>
<td>E</td>
<td>&lt;59%</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
</tbody>
</table>

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

**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](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.
(e.g., concept mapping and clinical scenarios); (4) take online practice examinations; and (5) take the scheduled, online module examination.

**Course Schedule:**

<table>
<thead>
<tr>
<th>Module</th>
<th>Date</th>
<th>Learning Activities</th>
<th>Learning Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1</td>
<td>May 08 – May 12</td>
<td><strong>Back &amp; Spinal Cord</strong>&lt;br&gt;Online Labs #1 &amp; #2&lt;br&gt;Online Pre-laboratory Overview&lt;br&gt;UFCOM Anatomy Video Dissections</td>
<td>Acland’s video demonstration&lt;br&gt;Text: Tortora, 13 Ed: Chapter 7, 17&lt;br&gt;FITBQ due, Friday 12pm EST</td>
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<tr>
<td>1-2</td>
<td>May 15 – May 19</td>
<td><strong>Upper Extremities</strong>&lt;br&gt;Online Labs #3- #9&lt;br&gt;Online Pre-laboratory Overview&lt;br&gt;UFCOM Anatomy Video Dissections</td>
<td>Acland’s video demonstration&lt;br&gt;Text: Tortora, 13 Ed: Chapter 7, 17&lt;br&gt;FITBQ due, Friday 12pm EST</td>
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<tr>
<td>1-3</td>
<td>May 22 – May 26</td>
<td><strong>Lower Extremities</strong>&lt;br&gt;Online Labs #11-16&lt;br&gt;Online Pre-laboratory Overview&lt;br&gt;UFCOM Anatomy Video Dissections</td>
<td>Acland’s video demonstration&lt;br&gt;Text: Tortora, 13 Ed: Chapter 7, 17&lt;br&gt;FITBQ due, Friday 12pm EST</td>
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<td>1-4 &amp; 1-5</td>
<td>May 29 – June 02</td>
<td><strong>Joints of the Upper Extremities</strong>&lt;br&gt;Online Lab #10&lt;br&gt;Online Pre-laboratory Overview&lt;br&gt;UFCOM Anatomy Video Dissections&lt;br&gt;<strong>Joints of the Lower Extremities</strong>&lt;br&gt;Online Lab #17&lt;br&gt;Online Pre-laboratory Overview&lt;br&gt;UFCOM Anatomy Video Dissections</td>
<td>Acland’s video demonstration&lt;br&gt;Text: Tortora, 13 Ed: Chapter 7, 17&lt;br&gt;Acland’s video demonstration&lt;br&gt;Text: Tortora, 13 Ed: Chapter 9&lt;br&gt;FITBQ due, Friday 12pm EST</td>
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<tr>
<td>2-1</td>
<td>June 05 – June 09</td>
<td><strong>Face &amp; Skull</strong>&lt;br&gt;Online Labs #22, #23, #27&lt;br&gt;Cranial Cavity Lab#28&lt;br&gt;Online Pre-laboratory Overview&lt;br&gt;UFCOM Anatomy Video Dissections</td>
<td>Acland’s video demonstration&lt;br&gt;Text: Tortora, 13 Ed: Chapter 7, 18&lt;br&gt;FITBQ due, Friday 12pm EST</td>
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<tr>
<td>2-2</td>
<td>June 12 – June 16</td>
<td><strong>Neck</strong>&lt;br&gt;Online Labs #24, #25, and #26&lt;br&gt;Online Pre-laboratory Overview&lt;br&gt;UFCOM Anatomy Video Dissections</td>
<td>Acland’s video demonstration&lt;br&gt;Text: Tortora, 13 Ed: Chapter 11&lt;br&gt;FITBQ due, Friday 12pm EST</td>
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<tr>
<td>2-3 &amp; 2-4</td>
<td>June 19 – June 23</td>
<td><strong>Pharynx, Larynx, Nasal Cavity, &amp; Oral Cavity</strong>&lt;br&gt;Online Labs #31, #32, #33, and #34&lt;br&gt;Online Pre-laboratory Overview&lt;br&gt;UFCOM Anatomy Video Dissections&lt;br&gt;<strong>Eye &amp; Ear</strong>&lt;br&gt;Online Labs #29 &amp; #30&lt;br&gt;Online Pre-laboratory Overview&lt;br&gt;UFCOM Anatomy Video Dissections</td>
<td>Acland’s video demonstration&lt;br&gt;Text: Tortora, 13 Ed: Chapter 23&lt;br&gt;Acland’s video demonstration&lt;br&gt;Text: Tortora, 13 Ed: Chapter 21&lt;br&gt;FITBQ due, Friday 12pm EST</td>
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**Module 1 Examination (online) – Opens Friday, June 2**
## Module 2 Examination (online) – Opens Friday, June 23

<table>
<thead>
<tr>
<th>Module</th>
<th>Date</th>
<th>Learning Activities</th>
<th>Learning Resources</th>
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<tbody>
<tr>
<td>3-1</td>
<td>June 26 – June 30</td>
<td><strong>Respiratory System</strong>&lt;br&gt;Online Labs #18 and #19&lt;br&gt;Online Pre-laboratory Overview&lt;br&gt;UFCOM Anatomy Video Dissections</td>
<td>Acland’s video demonstration&lt;br&gt;Text: Tortora, 13 Ed: Chapter 723&lt;br&gt;FitBQ due, Friday 12pm EST</td>
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<tr>
<td>3-2</td>
<td>July 03 – July 07</td>
<td><strong>Cardiovascular System</strong>&lt;br&gt;Online Lab #20&lt;br&gt;Online Pre-laboratory Overview&lt;br&gt;UFCOM Anatomy Video Dissections</td>
<td>Acland’s video demonstration&lt;br&gt;Text: Tortora, 13 Ed: Chapter 13, 14&lt;br&gt;FitBQ due, Friday 12pm EST</td>
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<tr>
<td>3-3</td>
<td>July 10 – July 14</td>
<td><strong>Superior &amp; Posterior Mediastinum</strong>&lt;br&gt;Online Lab #21&lt;br&gt;Online Pre-laboratory Overview&lt;br&gt;UFCOM Anatomy Video Dissections</td>
<td>Acland’s video demonstration&lt;br&gt;Text: Tortora, 13 Ed: Chapter 23&lt;br&gt;Acland’s video demonstration&lt;br&gt;Text: Tortora, 13 Ed: Chapter 24&lt;br&gt;FitBQ due, Friday 12pm EST</td>
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<td><strong>Digestive System</strong>&lt;br&gt;Online Labs #35, #36, #37, #38, and #39&lt;br&gt;Online Pre-laboratory Overview&lt;br&gt;UFCOM Anatomy Video Dissections</td>
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## Module 3 Examination (online) – Opens Friday, July 14

<table>
<thead>
<tr>
<th>Module</th>
<th>Date</th>
<th>Learning Activities</th>
<th>Learning Resources</th>
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<tbody>
<tr>
<td>4-1</td>
<td>July 17 – July 21</td>
<td><strong>Urinary System</strong>&lt;br&gt;Online Lab #40&lt;br&gt;Online Pre-laboratory Overview&lt;br&gt;UFCOM Anatomy Video Dissections</td>
<td>Acland’s video demonstration&lt;br&gt;Text: Tortora, 13 Ed: Chapter 25&lt;br&gt;FitBQ due, Friday 12pm EST</td>
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<td>4-2</td>
<td>July 24 – July 28</td>
<td><strong>Male Pelvis &amp; Perineum</strong>&lt;br&gt;Online Labs #42 &amp; #44&lt;br&gt;Online Pre-laboratory Overview&lt;br&gt;UFCOM Anatomy Video Dissections</td>
<td>Acland’s video demonstration&lt;br&gt;Text: Tortora, 13 Ed: Chapter 26&lt;br&gt;FitBQ due, Friday 12pm EST</td>
</tr>
<tr>
<td>4-3</td>
<td>July 31 – Aug 04</td>
<td><strong>Female Pelvis &amp; Perineum</strong>&lt;br&gt;Online Labs #41 &amp; #43&lt;br&gt;Online Pre-laboratory Overview&lt;br&gt;UFCOM Anatomy Video Dissections</td>
<td>Acland’s video demonstration&lt;br&gt;Text: Tortora, 13 Ed: Chapter 26&lt;br&gt;FitBQ due, Friday 12pm EST</td>
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## Module 4 Examination (online) – Opens Friday, Aug 4

**Attendance:**
Attendance will not be taken. 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: [http://www.dso.ufl.edu/judicial/pdf/files/handbook2003.pdf](http://www.dso.ufl.edu/judicial/pdf/files/handbook2003.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, which can be found on the Health Science Center Library’s web page: [http://www.library.health.ufl.edu/services/copyright.htm](http://www.library.health.ufl.edu/services/copyright.htm)

**Accommodation Policy:**
Students requesting classroom accommodation must first register with the Dean of Students’ office, 202 Peabody Hall, 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/](http://helpdesk.ufl.edu/).
For a list of additional student support services links and information please visit: [http://www.distance.ufl.edu/student-services](http://www.distance.ufl.edu/student-services)

**Special Accommodations**
Students requesting disability-related academic accommodations must first register with the Disability Resource Center.  [http://www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/)
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](http://www.distance.ufl.edu/student-complaints) to submit a complaint.