**Human Anatomy**

MEDS4052C (4 cr/hr)  
*Fall Semester 2018*  
**Syllabus & Schedule**

**Course description**

This course is designed to provide students with a comprehensive overview of human anatomy. It is well suited for those interested in pursuing a career in the healthcare field as well as students with a general interest in human anatomy. Instructional modalities include lecture and human dissection laboratory. Anatomical regions covered include the back, vertebral canal and spinal cord, thoracic wall, pleural cavity and mediastinum, abdominal wall and contents, and lower and upper extremities. Emphasis will be placed on the clinical relevance of structure-function relationships.

**Learning objectives**

By the end of the course, students should be able to:

1. Describe the structural and functional organization of the human body and the interrelatedness of bony structures, musculature, innervation, organology, vasculature, and lymphatic drainage within each body region.
2. Apply knowledge of the anatomic organization and relationships of structures to identify and interpret anatomic views, landmarks, and normal structures on cadaveric specimens and in contemporary medical imaging.
3. Explain the anatomic basis for common clinical conditions, injuries, pathologies, and diagnostic/interventional procedures.
4. Demonstrate the communication and organizational skills necessary to accurately convey anatomic information with peers.
5. Demonstrate respect, integrity, responsibility, and self-discipline toward donors, peers, and faculty.
6. Analyze their understanding of the human body and use this information to guide their study of gross anatomy.

**Course directors**

*Andrew Thompson, PhD* (Email: andrew.thompson@uc.edu)  
Tel: 513-558-7659  ●  Office: MSB G454C  ●  Office hours: By appointment

Bruce Giffin, PhD (Email: bruce.giffin@uc.edu)  
Tel: 513-558-5617  ●  Office: MSB G454B  ●  Office hours: By appointment

*Primary point of contact.*
**Class meeting days/times**
The class will meet for lecture on the following days/times (**MSB 3351**)
- Monday and Wednesday from 1:00pm-2:00 pm

Lectures sessions will consist of primarily PowerPoint presentations and/or active learning activities. Lecture video captures with audio will be made available for viewing, however, human error or technological difficulties could result in a session not being recorded. Thus, it is always recommended to attend lectures in-person. PowerPoint slides will be made available by the day of the lecture.

The class will meet for dissection laboratory on the following day/time (**CARE R800**)
- Thursday from 1:30pm-3:30pm

**Anatomy dissection laboratories require advanced preparation. Students are required to read the dissector prior to a laboratory session so they are familiar with the dissection procedure and structures that will be covered in a given laboratory. In addition to the two hour scheduled laboratory, students should expect to spend an additional 1-3 hours per week completing and studying the dissection.**

**Examination meeting days/time**
Examinations will generally take place on:
- **Lecture**- During scheduled lecture time (location: see schedule)
- **Laboratory**- During scheduled laboratory time (location: R800)

**Assessments**

<table>
<thead>
<tr>
<th>Format</th>
<th>Percentage of final grade</th>
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<tbody>
<tr>
<td>Lecture exams (x5)</td>
<td>55%</td>
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<tr>
<td>Beginning of lecture quizzes</td>
<td>5%</td>
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<tr>
<td>Case-based group presentation</td>
<td>5%</td>
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<tr>
<td>Laboratory (practical) exams (x3)</td>
<td>35%</td>
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<tbody>
<tr>
<td>Exam 1 = 7%</td>
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<td>Exams 2-5 = 12%</td>
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<tr>
<td>Practical exam 1 = 5%</td>
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<td>Practical exams 2-3 = 15%</td>
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**Lecture exams**: Lecture based exams will be multiple-choice format and cover information from lectures and laboratories leading up to the day of the exam. Lecture exams are NOT cumulative. The number of questions per exam will vary based on the amount of content represented on each exam.

**Laboratory (practical) exams**: Practical exams will take place in the dissection laboratory and will cover laboratory and lecture content leading up to the day of the exam. These exams will consist of a mix of question types that utilize tagged structures on human cadavers as a component of the question. These can range from straightforward identification of a tagged structure to recognizing the structure/function relationship or clinical significance of a feature. Laboratory exams are NOT cumulative.

**Case-based group presentation**: In groups (gross anatomy tables), students will be create a clinical vignette involving a pathology and develop a series of questions (minimum of 1 question per group member) based on the clinical anatomy relevant to the case. Explanations for each question must be
provided. Each group will have approximately 10min to present their case and questions to the class in PowerPoint format.

**Beginning of lecture quiz:** A brief quiz or learning activity will be given at the start of lecture and cover content presented in the lecture from a previous session. At least 10 quizzes will be given, thus not every lecture will have a quiz. Students will not be notified in advance which sessions will include a quiz. The lowest score for each student will be dropped. Students who arrive late to class and miss the quiz will receive a zero for that quiz.

**Grading**

Grades will be assigned as follows, with no adjustment for the distribution of scores.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage range</th>
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<tbody>
<tr>
<td>A</td>
<td>89.50%–100%</td>
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<tr>
<td>A−</td>
<td>84.50%–89.49%</td>
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<tr>
<td>B</td>
<td>76.50%–81.49%</td>
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<tr>
<td>B−</td>
<td>73.50%–76.49%</td>
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<tr>
<td>C</td>
<td>66.50%–69.49%</td>
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<tr>
<td>C−</td>
<td>62.50%–66.49%</td>
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<tr>
<td>D</td>
<td>54.50%–58.49%</td>
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<tr>
<td>D−</td>
<td>50.00%–54.49%</td>
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<tr>
<td>B+</td>
<td>81.50%–84.49%</td>
</tr>
<tr>
<td>C+</td>
<td>69.50%–73.49%</td>
</tr>
<tr>
<td>D+</td>
<td>58.50%–62.49%</td>
</tr>
<tr>
<td>Fail</td>
<td>Below 50.00%</td>
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**Prerequisites**

By permission only

**Attendance**

Attendance is required for laboratory sessions and examinations, but optional for lectures. However, beginning of lecture quizzes will be given at random at the start of a lecture. Students with an unexcused absence or arrive late will receive a zero on the quiz. Excused absences must be cleared by the course director in advance. Each unexcused absence from the anatomy laboratory will result in an automatic 2% reduction from the student's final grade.

**Textbook**


Note: You may use an earlier edition; however, be sure to verify content as page numbers, figure numbers may have changed.

Thieme dissector: Electronic resource customized for the dissection laboratory of this course. Students will use the link below to create an account. An access code will be provided when the course begins. [http://mycourse.thieme.com/Account/Login](http://mycourse.thieme.com/Account/Login)

**Academic Integrity Policy**

The University Rules, including the Student Code of Conduct, and other documented policies of the department, college, and university related to academic integrity will be enforced. Any violation of these
regulations, including acts of plagiarism or cheating, will be dealt with on an individual basis according to the severity of the misconduct.

**Special Needs Policy**
If you have any special needs related to your participation in this course, including identified visual impairment, hearing impairment, physical impairment, communication disorder, and/or specific learning disability that may influence your performance in this course, you should meet with the instructor to arrange for reasonable provisions to ensure an equitable opportunity to meet all the requirements of this course. At the discretion of the instructor, some accommodations may require prior approval by Disability Services.

**Counseling Services**
Students have access to counseling and mental health care through the University Health Services (UHS), which can provide both psychotherapy and psychiatric services. In addition, Counseling and Psychological Services (CAPS) can provide professional counseling upon request; students may receive five free counseling sessions through CAPS without insurance. Students are encouraged to seek assistance for anxiety, depression, trauma/assault, adjustment to college life, interpersonal/relational difficulty, sexuality, family conflict, grief and loss, disordered eating and body image, alcohol and substance abuse, anger management, identity development and issues related to diversity, concerns associated with sexual orientation and spirituality concerns, as well as any other issue of concerns. After hours, students may call UHS at 513-556-2564 or CAPS Cares at 513-556-0648. For urgent physician consultation after-hours students may call 513-584-7777.

**Title IX**
Title IX is a federal civil rights law that prohibits discrimination on the basis of your actual or perceived sex, gender, gender identity, gender expression, or sexual orientation. Title IX also covers sexual violence, dating or domestic violence, and stalking. If you disclose a Title IX issue to me, the course director, I am required to forward that information to the Title IX Office. They will follow up with you about how the University can take steps to address the impact on you and the community and make you aware of your rights and resources. Their priority is to make sure you are safe and successful here. You are not required to talk with the Title IX Office. If you would like to make a report of sex or gender-based discrimination, harassment or violence, or if you would like to know more about your rights and resources on campus, you can consult the website www.uc.edu/titleix or contact the office at 513-556-3349.
# Human Anatomy Lecture and Laboratory Schedule

Unless otherwise noted (e.g., exams), days shaded in blue meet in the lecture room, days shaded in grey meet in the anatomy laboratory.

<table>
<thead>
<tr>
<th>Week 1</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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</thead>
<tbody>
<tr>
<td>8/27-8/31</td>
<td>27 (Thomp/Giffin) -Anatomic terminology and systems overview -Intro to imaging</td>
<td>28</td>
<td>29 (Thompson) -Vertebral column osteology -Superficial and deep back muscles</td>
<td>30</td>
<td>31</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Week 2</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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</thead>
<tbody>
<tr>
<td>9/3-9/7</td>
<td>3</td>
<td>4</td>
<td>5 (Thompson) -Spinal cord, meninges and typical spinal nerve -Imaging of the spine</td>
<td>6</td>
<td>7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Week 3</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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</thead>
<tbody>
<tr>
<td>9/10-9/14</td>
<td>10 Lecture exam 1 CARE G810</td>
<td>11</td>
<td>12 Lab exam 1 (in the anatomy lab from 1-2pm)</td>
<td>13 (Giffin) -Introduction to limbs -Anterior thigh (location TBD)</td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Week 4</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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</thead>
<tbody>
<tr>
<td>9/17-9/21</td>
<td>17 (Giffin) -Anterior and lateral leg -Knee joint</td>
<td>18</td>
<td>19 (Giffin) -Gluteal region -Hip joint</td>
<td>20</td>
<td>21</td>
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<tr>
<td>Week</td>
<td>Monday</td>
<td>Tuesday</td>
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<tr>
<td>5</td>
<td>24 (Giffin)</td>
<td>25</td>
<td>26 <strong>Lecture exam 2</strong> CARE G875</td>
<td>27 -Gluteal region</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>-Posterior thigh</td>
<td></td>
<td>-Posterior thigh</td>
<td>-Posterior thigh</td>
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<tr>
<td></td>
<td>-Posterior leg</td>
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<td>-Posterior leg</td>
<td>-Posterior leg</td>
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<td></td>
<td></td>
<td>-Hip joint (P)</td>
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<tr>
<td>6</td>
<td>1 (Thompson)</td>
<td>2</td>
<td>3 (Thompson)</td>
<td>4 -Anterior arm</td>
<td>5</td>
</tr>
<tr>
<td>10/1</td>
<td>-Anterior arm</td>
<td></td>
<td>-Cubital fossa</td>
<td>-Anterior forearm</td>
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<tr>
<td></td>
<td>-Brachial plexus</td>
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<td>-Anterior forearm</td>
<td>-Elbow joint</td>
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<tr>
<td>10/5</td>
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<tr>
<td>7</td>
<td>8 (Thompson)</td>
<td>9</td>
<td>10 (Thompson)</td>
<td>11 <strong>NO CLASS</strong> READING DAY</td>
<td>12</td>
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<tr>
<td>10/8</td>
<td>-Shoulder</td>
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<td>-Posterior forearm</td>
<td><strong>READING DAY</strong></td>
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<tr>
<td></td>
<td>-Posterior arm</td>
<td></td>
<td>-Shoulder joint</td>
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<tr>
<td>10/12</td>
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<tr>
<td>8</td>
<td>15 <strong>Lecture exam 3</strong> CARE G875</td>
<td>16</td>
<td>17 (Thompson)</td>
<td>18 -Shoulder</td>
<td>19</td>
</tr>
<tr>
<td>10/15</td>
<td><strong>LAB exam 3</strong></td>
<td></td>
<td>-Overview of thorax</td>
<td>-Shoulder</td>
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<tr>
<td></td>
<td>(in the anatomy lab from 1-2pm)</td>
<td></td>
<td>-Thoracic wall</td>
<td>-Posterior arm</td>
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<tr>
<td>10/19</td>
<td></td>
<td></td>
<td>-Thoracic wall</td>
<td>-Posterior forearm</td>
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<td></td>
<td>-Posterior forearm??</td>
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<td></td>
<td></td>
<td>-Shoulder joint (P)</td>
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<tr>
<td>9</td>
<td>22</td>
<td>23</td>
<td>24 (Thompson)</td>
<td>25 -Thoracic wall</td>
<td>26</td>
</tr>
<tr>
<td>10/22</td>
<td><strong>LAB exam 2</strong></td>
<td></td>
<td>-Pleura/lungs</td>
<td>-Pleura</td>
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<tr>
<td></td>
<td>(in the anatomy lab from 1-2pm)</td>
<td></td>
<td>-Heart p1</td>
<td>-Lungs</td>
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<tr>
<td>10/26</td>
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<tr>
<td>Week</td>
<td>Monday</td>
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<tr>
<td>Week 10</td>
<td>29 (Thompson)</td>
<td>30</td>
<td>31 (Thompson)</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>10/29 –</td>
<td>-Heart p2</td>
<td></td>
<td>-Posterior mediastinum</td>
<td>-Superior mediastinum</td>
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<tr>
<td>11/2</td>
<td>-Superior mediastinum</td>
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<td>-Thorax imaging</td>
<td>-Heart</td>
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<tr>
<td>Week 11</td>
<td>5</td>
<td>6</td>
<td>7 (Giffin)</td>
<td>8</td>
<td>9</td>
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<tr>
<td>11/5 –</td>
<td><strong>Lecture exam 4</strong></td>
<td></td>
<td>-Overview of the abdomen</td>
<td>-Anterior abdominal wall</td>
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<tr>
<td>11/9</td>
<td>CARE G875</td>
<td></td>
<td>-Abdominal wall</td>
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<tr>
<td>Week 12</td>
<td>12</td>
<td>13</td>
<td>14 (Giffin)</td>
<td>15</td>
<td>16</td>
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<tr>
<td>11/12 –</td>
<td><strong>NO CLASS VETERANS DAY</strong></td>
<td></td>
<td>-Foregut</td>
<td>-Foregut</td>
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<tr>
<td>11/16</td>
<td></td>
<td></td>
<td>-Celiac trunk</td>
<td>-Celiac trunk</td>
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<tr>
<td>Week 13</td>
<td>19 (Giffin)</td>
<td>20</td>
<td>21 (Giffin)</td>
<td>22</td>
<td>23</td>
</tr>
<tr>
<td>11/19 –</td>
<td>-Midgut</td>
<td></td>
<td>-Abdominal imaging</td>
<td><strong>NO CLASS THANKSGIVING</strong></td>
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<tr>
<td>11/23</td>
<td>-Hindgut</td>
<td></td>
<td>-Catch up</td>
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<tr>
<td>Week 14</td>
<td>26 (Thompson)</td>
<td>27</td>
<td>28 (Thompson)</td>
<td>29</td>
<td>30</td>
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<tr>
<td>11/26 –</td>
<td>Principles and application of</td>
<td></td>
<td>Ultrasound lab/demo</td>
<td>-Midgut</td>
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<tr>
<td>11/30</td>
<td>ultrasound imaging</td>
<td></td>
<td></td>
<td>-Hindgut</td>
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<td>Monday</td>
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<tr>
<td>Week 15 12/3 – 12/7</td>
<td>3 Anatomy case-based presentations</td>
<td>4</td>
<td>5 Anatomy case-based presentations</td>
<td>6 Lab exam 3</td>
<td>7</td>
</tr>
<tr>
<td>Week 16 12/10-12/14</td>
<td>10 EXAM WEEK</td>
<td>11</td>
<td>12</td>
<td>13 Lecture exam 5 1:30-2:30 in CARE G875</td>
<td>14</td>
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</tbody>
</table>

P=prosection (the structure will already be dissected, you only need to study it)