

# KINESIOLOGY 328: HUMAN ANATOMY

SPRING 2017



*Department of  
Kinesiology, University  
of Wisconsin-Madison*

*Monday, Wednesday,  
Friday*

*1125 Biochem Building*

*Section 1: 11:00 – 11:50  
Section 2: 12:05-12:55*

## ABOUT THE COURSE

This course is designed to engage students in the learning process while providing a foundation of knowledge in human anatomy. The course will take a regional approach, beginning with an introduction to different systems of the body followed by three sections covering different body regions: thorax, abdomen, and pelvis; the extremities; and head and neck. Throughout the course, we will continually revisit the following themes: *structure governs function and systems work together for proper function.*

We will use discussion of pathology and injury to help understand functional anatomy, and we will use our knowledge of anatomy to problem solve with clinical cases. By the end of this course you should have developed a thorough understanding of the anatomy of the human body, be able to apply that knowledge to make informed decisions about your own health, and be prepared for future studies and practice as a clinician in a variety of health settings.

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***Office hour information will be  
posted on the course website.***

### What's inside this syllabus?

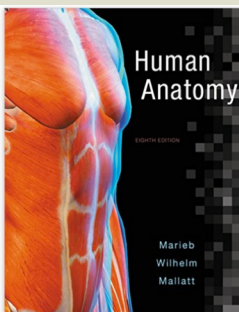
1. What am I expected to learn?
2. What do I need to know to be successful?
3. How will I be assessed?
4. What is the course schedule?
5. What are the course components?



## What am I expected to learn?

By the end of Kinesiology 328: Human Anatomy, you will be able to:

1. Explain how structure governs function in the human body.
2. Describe how systems work together in normal function.
3. Discuss how anatomy can contribute to dysfunction or pathology.
4. Use anatomical terminology in communication with people in the health field
5. Describe key transformative features occurring in the human body throughout the lifespan.
6. Demonstrate a thorough understanding of the anatomy of the human body.
7. Prepare to apply anatomy knowledge in future studies and practice as a clinician in a variety of health fields.
8. Use your knowledge of anatomy to make informed decisions about your own health.



## WHAT DO I NEED TO KNOW TO BE SUCCESSFUL?

### Course Expectations and Learning Environment

A key goal of this class is to teach you how to think about anatomy and apply anatomical knowledge to improve your clinical skills and/or health. In order to reach this goal, as well as the other course goals, it is critical that we be partners in learning. We want all students to be successful in this course, and we will work hard to support your success. A common thread of healthcare settings is TEAMWORK! You need to work in a team here as well. We have prepared interactive and engaging activities for each class, and we will include problem solving and clinical cases to give the memorization of anatomical knowledge an application and purpose. Daily in-class activity documents (worksheets/activity instructions/cases) will be posted on the course site. Please bring either a printed or digital copy to each class, as we will use these for group work. We also recommend that you bring extra paper as well as colored pens/highlighters/etc. to class as we will be drawing out structures and concepts in class.

We will be available through email, the course website, and in person to answer questions and support your learning. *In return, we ask that you take responsibility for your learning, attend all lectures, actively participate in class activities, complete all homework assignments, and participate in optional discussions if possible.*

### Required Digital Textbook and Online Materials

#### eTextbook & Online Material

Human Anatomy, 8th Edition  
 Marieb, Wilhelm, and Mallatt  
 Mastering Anatomy and Physiology (A&P) Program

\*A digital version of the textbook is included with the online material required for this course. The online program will include homework and assessments that are part of the final grade for the course.

#### Other Course Material:

All announcements and additional materials, including a link to Mastering A&P, can be found on the Canvas/Learn@UW site for this course. The site will have daily course pages that include responsibilities for the day, pre-class assignments, and course materials like important terms.

### Grading Scale:

<i>A</i>	93-100%
<i>AB</i>	88-92%
<i>B</i>	83-87%
<i>BC</i>	78-82%
<i>C</i>	70-77%
<i>D</i>	60-69%
<i>F</i>	Below 60

## HOW WILL I BE ASSESSED?

**Homework:** All homework will be completed online through the course Mastering A&P/MyLab and Mastering program before the beginning of each class at **10:59 am**. A calendar on Mastering A&P shows all homework assignments and there will be homework on all class dates. Homework will consist of assigned readings and questions. You can use your notes and easily reference the eBook in a separate window as you answer the questions. Through the Mastering A&P you will see instructor notes and highlights in the readings to help you focus on important concepts. The goals of the homework are to provide you with a foundation of knowledge on each topic prior to class and to help you stay on-track with the material in this fast-paced course. The homework will count for 20% of your overall grade.

**Exams:** There will be four in-person exams, one for each unit. Each unit exam counts for 20% of your overall grade. The exams will consist of knowledge and application/case type questions. You will have an opportunity to answer practice questions during class through the response system.

The three exams occurring during the semester will be held from 5:45-7:15 pm on the following dates. Please note the final exam information will be provided soon.

- Monday February 13th
- Thursday March 9<sup>th</sup>
- Monday April 10th



### Core Course Concepts

1. Structure governs function.
2. Everything works together.
3. Anatomical variation is very common.
4. Anatomical terminology is the common language of medical sciences.
5. Normal changes occur in our human anatomy throughout life, from embryological origin to old age.
6. Sometimes what's optimal for normal function can also facilitate pathology.
7. Knowledge of anatomy will help you make reason through anatomical and clinical questions (e.g. how would I test this, what might be the function of the structure?)
8. Knowledge of anatomy will help you problem solve in the healthcare setting (e.g. clinical diagnosis, research, personal health)

## WHAT IS THE COURSE SCHEDULE?

<b>SPRING 2017</b>	<b>Monday</b>	<b>Wednesday</b>	<b>Friday</b>
<b>Week 1</b>		<b>January 18</b> Course Introduction Intro to Anatomy	<b>January 20</b> Tissues
<b>Week 2</b>	<b>January 23</b> Cartilage and Bone	<b>January 25</b> Intro to the Nervous System Nervous Tissue	<b>January 27</b> Spinal Cord
<b>Week 3</b>	<b>January 30</b> Integumentary System & Somatosensation	<b>February 1</b> Muscle Tissue and Reflexes	<b>February 3</b> Endocrine System Blood Vessels
<b>Week 4</b>	<b>February 6</b> Blood Lymphatic and Immune Systems	<b>February 8</b> Lymphatic & Immune Systems Inflammation and Tissue Repair	<b>February 10</b> Human Development & Anatomy through the Lifespan
<b>Week 5</b>	<b>February 13</b> Trunk Wall and Vertebral Column  <b>Unit 1 Exam:</b> <b>Mon February 13 5:45-7:15pm</b>	<b>February 15</b> Autonomic Nervous System	<b>February 17</b> Respiratory System
<b>Week 6</b>	<b>February 20</b> Respiratory System Heart and Great Vessels	<b>February 22</b> Heart and Great Vessels Mediastinum	<b>February 24</b> Abdominal Cavity Organization Digestive System
<b>Week 7</b>	<b>February 27</b> Digestive System Blood Supply to the Abdomen	<b>March 1</b> Pelvis & Perineum Urinary System	<b>March 3</b> Urinary System
<b>Week 8</b>	<b>March 6</b> Reproductive System	<b>March 8</b> Reproductive System  <b>***Unit 2 Exam</b> <b>Thurs March 9<sup>th</sup> 5:45-7:15pm</b>	<b>March 10</b> Intro to the Extremities Articulations
<b>Week 9</b>	<b>March 13</b> Articulations Upper Extremity	<b>March 15</b> Upper Extremity	<b>March 17</b> Upper Extremity
<b>Week 10</b>	<b>March 20</b> <b>SPRING RECESS – NO CLASS</b>	<b>March 22</b> <b>SPRING RECESS – NO CLASS</b>	<b>March 24</b> <b>SPRING RECESS – NO CLASS</b>
<b>Week 11</b>	<b>March 27</b> Upper Extremity: Brachial Plexus	<b>March 29</b> Upper Extremity	<b>March 30</b> Lower Extremity

## Schedule cont.

<b>Week 12</b>	<b>April 3</b> Lower Extremity	<b>April 5</b> Lower Extremity	<b>April 7</b> Lower Extremity
<b>Week 13</b>	<b>April 10</b> Intro to Head & Neck Meninges  <b>Unit 3 Exam</b> <b>Mon April 10<sup>th</sup> 5:45-7:15pm</b>	<b>April 12</b> Brain	<b>April 14</b> Brain
<b>Week 14</b>	<b>April 17</b> Cranial Nerves	<b>April 19</b> Orbit, Eye & Vision	<b>April 21</b> Visual Pathways
<b>Week 15</b>	<b>April 24</b> Skull, Scalp & Face	<b>April 26</b> Hearing & Vestibulation Nasal Cavity & Smell	<b>April 28</b> Oral Cavity & Taste
<b>Week 16</b>	<b>May 1</b> Fascia & Triangles of Head & Neck	<b>May 3</b> Pharynx & Larynx	<b>May 5</b> <b>STUDY DAY – NO CLASS</b>

## WHAT ARE THE CORE COMPONENTS?

<p><b>LMS Resources &amp; Pre-Class Assignments on Mastering A&amp;P</b> Purpose: To serve as the organizational hub for all activities in the course, link to Mastering A&amp;P for pre-class assignments, and prepare for in-person class sessions.</p>	<p><b>To support your success, Anatomy instructor/TAs will:</b> provide resources and links to course orientation materials, post learning pages that delineate what is happening on each day.</p>	<p><b>To be successful, you will:</b> check the LMS daily, complete the assigned activities in advance of the in-person sessions, and post questions on Piazza.</p>
<p><b>In-person class sessions</b> Purpose: To build upon pre-class assignments, interact as a whole class to engage with key anatomy concepts, clear up misconceptions, and make connections across topics.</p>	<p><b>To support your success, Anatomy instructor/TAs will:</b> focus on the big concepts, foster connections between pre-class assignments and information presented during class, work through sticking points, misconceptions, and common challenges utilizing a variety of teaching and learning methods.</p>	<p><b>To be successful, you will:</b> attend and engage in all sessions and actively participate in the in-class activities. Complete necessary assignments before each session and be sure to let us know if you do not understand a concept or have a question.</p>
<p><b>Exams</b> Purpose: To evaluate the state of your understanding of human anatomy.</p>	<p><b>To support your success, Anatomy instructor/TAs will:</b> Answer questions on Piazza and write exams that are fair and accurately reflect the content.</p>	<p><b>To be successful, you will:</b> Keep up with the daily materials and prepare for the exam by reviewing materials and assessing knowledge from learning objectives.</p>

## Course Policies

**Statement on Academic Honesty:** The Board of Regents, administrators, faculty, academic staff and students of the University of Wisconsin System believe that academic honesty and integrity are fundamental to the mission of higher education and of the University of Wisconsin System. The university has a responsibility to promote academic honesty and integrity and to develop procedures to deal effectively with instances of academic dishonesty. Students are responsible for the honest completion and representation of their work, for the appropriate citation of sources, and for respect of others' academic endeavors. Students who violate these standards must be confronted and must accept the consequences of their actions. For more information, students are encouraged to visit the UW-Madison Dean of Students page on Academic Integrity: <http://www.students.wisc.edu/doso/academic-integrity/>.

**Accommodation Statement:** Please let me know if you are in need of any special accommodations in the instruction or assessments in this course so that you may participate fully. I will do my best to keep any information you share confidential. Students with questions about accommodations or assessment for learning difficulties can find more information at the McBurney Resource Center: <http://mcburney.wisc.edu/services/>.

**Late Homework and Make-up Exam Policy:** Published homework due dates (Central Standard Time CST) and times are firm. You will not receive credit for late homework. Extensions will not be granted for forgetting to complete it or if something comes up before its due. Homework will be posted several days before the due date, so there is ample opportunity to complete it. Do not wait until the last minute! If an urgent situation or emergency arises, contact the instructor. If an extension is granted, written proof may be required.

In cases of exam conflicts, notify the instructor as soon as you know at minimum 10 days BEFORE the exam. We need ample time to make accommodations and reserve the right deny requests. In case of an emergency arises, contact the instructor. If an extension is granted, written proof may be required.



## Tips

- Review all of the course orientation materials by the first day of class.
- Complete the pre-class assignments to stay on track.
- Come to class prepared to work.
- Ask questions when you don't understand.
- Team up with other students to learn.
- Attend optional discussion sections.
- Study along the way.