KINESIOLOGY 329: Human Anatomy Laboratory



ABOUT THE COURSE

This anatomy lab course is designed to provide a foundation of knowledge in human anatomy and identification of anatomical structure through engaging activities and clinical application. The course will take a regional approach, beginning with a brief introduction to histology, radiology, and body systems followed by three sections covering different body regions: thorax, abdomen, and pelvis; back and limbs; and head and neck. The following themes will be emphasized throughout the course: structure governs function and systems work together for proper function.

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?

We will use virtual dissection programs, hands on-activities, models, and palpation to help understand structural and functional anatomy, and we will apply this information with case studies of injury and pathology. 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.

SPRING 2017

Department of Kinesiology, University of Wisconsin-Madison 2 credits

M,W or T, TH Lab Sections: 1 - 8

6250 Medical Sciences Center

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Office hour information can be found on the course site.



What am I expected to learn?

By the end of Kinesiology 329: Human Anatomy Laboratory, you will be able to:

1. Identify key structures of the human body, including muscles, organs, and bones.

2. Identify characteristics of certain structures of the body and explain how explain how structure governs function.

3. Explain how systems work together in normal function.

4. Demonstrate how anatomy can contribute to dysfunction or pathology.

5. Use anatomical terminology in communication with others in the health field.

6. Prepare to apply anatomy knowledge and identification skills in future studies and practice as a clinician in a variety of health fields.

7. 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. We have prepared interactive and engaging activities for each lab, including hands-on demonstrations, palpation, study of models, and clinical cases. We will be available through open lab hours, email, the course website, and in-person meetings to answer questions and support your learning. *In return, we ask that you take responsibility for your learning, attend all lab sections, actively participate in all lab activities, and complete all homework assignments.*

Required Textbook and Online Materials

eTextbook

Mastering Anatomy and Physiology Publisher: Pearson This is an online program that contains an atlas, practice quizzes, and other resources. The weekly quizzes will also be completed through this program.

Lab Manual

Prepared by the course instructor Posted on the weekly pages on Canvas/Learn@UW page

Optional Books:

Two additional books may be helpful for you in this course. They are: A Photographic Atlas for Anatomy and Physiology

Hebert and Heisler, 1st Edition, copyright 2015

The Anatomy Coloring Book Kapit and Elson, 4th Edition, copyright 2014

The UW Bookstore has a bundled copy of the atlas and coloring book for a reduced price, compared to purchasing them separately. A digital atlas is included with the Mastering A&P online materials. The print atlas contains different images, and some of you may find this helpful. Many students find the coloring book pages helpful in the discussions for the lecture portion of the class. Again, both of these are optional.

HUMAN ANATOMY

Grading Scale:

A	93-100%
AB	88-92%
В	83-87%
BC	78-82%
С	70-77%
D	60-69%
F	Below 60

HOW WILL I BE ASSESSED?

Weekly Homework Quiz: Homework quizzes will be completed using the Mastering A&P site. The quiz will be come available on Wednesday of each week. It is designed to be completed after the second lab of the week. Homework quizzes will primarily consist of questions using the online Practice Anatomy Lab atlas provided with Mastering A&P. The homework quizzes will be due by 11:59pm on Sunday following the two labs being tested. There will be no homework quiz during exam weeks. Homework quizzes will be worth 20% of your overall grade.

Exams: There will be four exams in this course, one for each unit. Each unit exam counts for 20% of your overall grade. The exams will be taken during the lab period and will consist of identification-based questions with virtual images, models, cadaveric specimens, and palpation.

TIPS

- Review all of the course orientation materials by the first day of lab.
- 2. Complete the pre-lab assignments.
- Come to lab prepared to work.
- 4. Ask questions when you don't understand.
- 5. Team up with other students to learn.
- Attend open lab hours to review with lab materials and have questions answered by TAs.
- 7. Study along the way.

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?

SPRING 2017	Day 1 (Monday and Tuesday Labs)	Day 2 (Wednesday and Thursday Labs)	
	(Unit 1 – Lab 1	
Week 1		Course Intro	
January 16-19		Intro to Anatomy, Radiology, and Cross-Sections	
Week 2	Unit 1 – Lab 2	Unit 1 – Lab 3	
week 2	Epithelial, Connective, Nervous, and	Cartilage and Bone	
January 25-20	Muscle Tissues	Blood and Blood Vessels	
Week 3	Unit 1 – Lab 4	Unit 1 – Lab 5	
January 30-	Spinal Cord and Vertebral Column	Heart and Great Vessels	
February 1	Trunk & Abdominal Wall	Respiratory System	
	United Labor	Unit 1 – Lab 7	
Week 4	Directive System	Pelvis & Perineum	
February 6-9	Digestive System	Urinary System	
		Reproductive System	
Week 5	Unit 1 – Lab 8	Unit 1 Evam	
February 13-16	Review	Unit I Exam	
Week 6	Unit 2 – Lab 1	Unit 2 – Lab 2	
February 20-23	Bones and Joints of the Upper Extremity	Pectoral Region and Shoulder	
Week 7	Unit 2 – Lab 3	Unit 1 – Lab 4	
February 29-	Brachial Plexus	Forearm and Hand	
March 2	Arm and Forearm	Vasculature of the Upper Extremity	
Week 8	Unit 2 – Lab 5	Unit 2 Even	
March 6-9	Review	Unit 2 Exam	
Week 9	Unit 3 – Lab 1	Unit 3 – Lab 2	
March 13-16	Bones and Joints of the Lower Extremity	Hip & Gluteal Region	
Week 10 March 20-23	SPRING RECESS – NO CLASS	SPRING RECESS – NO CLASS	
Week 44	Unit 3 – Lab 3	Unit 3 – Lab 4	
Week 11	Thigh	Leg and Ankle Foot	
March 27-30	Nerves of the Lower Extremity	Vasculature of the Lower Extremity	
Week 12 April 3-6	Unit 3 – Lab 5 Review	Unit 3 Exam	
Week 13		Unit 4 – Lab 2	
week 13	Unit 4 – Lab 1 Museles 8 Triangles of Logid 8 March	Muscles of the Face	
April 10-13	Muscles & Triangles of Head & Neck	Vasculature of the Head and Neck	
Week 14		Unit 4 – Lab 4	
week 14	Unit 4 – Lab 3	Cranial Nerves	
April 17-20	i ne Brain	Skull	
Week 15	Unit 4 – Lab 5	Unit 4 – Lab 6	
April 24.27	Orbit, Eye & Vision	Oral and Nasal Cavities	
April 24-27	Hearing & Vestibulation	Pharynx & Larynx	
Week 16	Unit 4 – Lab 7	Even 4	
May 1-4	Review	Exam 4	

WHAT ARE THE LAB EXPECTATIONS?

Rules for Lab/Appropriate Lab Conduct

Gloves. Gloves will be provided. Students are expected to wear gloves when working with wet specimens. Gloves are to be removed and disposed of properly after working with wet specimens. Students must wash hands before handling other lab materials.

Food. For the safety of students, no food is permitted in the lab at any time. This includes coffee, bottled water, or other open beverages.

Social Media Use. Students may not take pictures of any specimens in the lab. Social media is not to be used during lab time.

Daily Lab Guides. The daily lab guides will be posted to course website prior to lab. Each lab group will consist of 3-5 students. At least 1 student per lab group should bring the daily lab guide to each lab. We recommend printed copies. Tablets are acceptable; however, some materials used in lab could cause damage to electronic devices. The lab environment is not well suited for laptops.

Each lab will start with an introduction of the day's lab activities. Generally, labs will utilize 3-5 stations which students will rotate through in their lab group. Upon completion of the daily lab activities, students will have time to utilize lab materials to study or review and ask questions. Students will be free to leave after completing daily lab activities. However, it is recommended that students make good use of the remaining lab time, as this will likely be the only time students will have to study in the lab before exams.

Lab Attendance: Students are expected to attend all labs.

Lab Absences: There are no make-up labs. Students must contact their TA to discuss options for making up missed work.

Practical Exam Absences/Conflicts: Lab exams in Kines 329 are offered as practical exams and require extensive time to set up. exam Re-Takes ARE NOT an option. If you are aware of a conflict you should contact your TA as soon as possible. Students may be able to take the exam during another lab section. Exam conflicts will be evaluated on a case by case basis. Students are expected to provide documentation of any exam conflicts.

WHAT ARE THE CORE COMPONENTS?				
Learn@UW Resources & Pre- Class Assignments Purpose: To serve as the organizational hub for all activities in the course, link to Anatomy and Physiology, and prepare for lab sessions.	To support your success, Anatomy instructor/TAs will: provide resources and links to course orientation materials and post learning pages that delineate what is happening on each day.	To be successful, you will: check the Learn@UW daily, complete the assigned activities in advance of the lab, and post questions on the Piazza discussion board.		
In-person lab sessions Purpose: To build upon pre-lab assignments, have hands-on interaction with models and specimens, complete group activities to learn anatomical concepts, and clarify questions.	To support your success, Anatomy instructor/TAs will: focus on the big concepts, foster connections between pre-lab assignments and information learned during lab, work through sticking points, misconceptions, and common challenges utilizing a variety of teaching and learning methods.	To be successful, you will: attend and engage in all labs and actively participate in all activities. Complete necessary assignments before each lab and be sure to let us know if you do not understand a concept, have difficult identifying or differentiating structures, or have a question.		
Exams Purpose: To evaluate the state of your understanding of human anatomical structure and function.	To support your success, Anatomy instructor/TAs will: Answer questions on Piazza and write exams that are fair and accurately reflect the content.	To be successful, you will: Keep up with the daily materials and prepare for the exam by reviewing materials and assessing knowledge from learning objectives.		

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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/.