

University of Oregon  
Department of Human Physiology

Course Syllabus

**Human Anatomy : Musculoskeletal**

ANAT 311 Fall 2006

**Tues./Thrus. 10:00 - 11:20am / 282 Lillis Complex**

Instructor: **Dr. Susan Verscheure**

Office: **125 Esslinger Hall**

Office Hours: **Monday 11:00-12:00, Tuesday 2:00-3:00, Wednesday 11:00-12:00, Thursday 4:00-5:00, Friday 10:00-11:00.**

Phone: **346-1487**

E-mail: **susankv@uoregon.edu - I work on email once a day (Monday-Friday) for one hour, usually between ~1 and 3pm. Our course discussion board will also be answered at this time.**

**Textbooks:**

Required Text: Netter's Atlas of Human Anatomy (4<sup>th</sup> Ed is the most recent).

Netter's Atlas alone is not sufficient. You will need access to the explanations of the structures (images) found in the Netter's Atlas. But, you may choose your access point to these explanations. If you are very web savvy, just use the web. If you want life to be simplest, buy Moore's book (it's the one that I use). Following are my suggestions:

Clinically Oriented Anatomy 5<sup>th</sup> Ed., Keith L. Moore & Arthur F. Dalley.

Similar resources (*without* the clinical emphasis):

Authors: 1. Snell, 2. Martini, 3. Van de Graaf, 4. Tortora, 5. Marieb, 6. McKinley.

**Course Description:** Human Anatomy of the Musculoskeletal System will use a regional approach to uncover the anatomy of the upper and lower extremity, neck and trunk. Discussion will include the bony structures, muscles, and ligaments, as well as the nervous and circulatory supply to these regions. ANAT 314 Human Anatomy Lab is a pre or co-requisite, but will ideally be taken simultaneously, as the two courses will compliment each other, and ANAT 311 builds on your discoveries in the lab. Our goal is for you to become familiar with musculoskeletal anatomy, and be able to apply the information you have compiled to clinical situations.

**Course Philosophy:** It is my intention to provide the best environment to facilitate active learning. You will be encouraged to discuss, challenge, and critique information by interacting with both myself and your fellow students. Information will be uncovered as you create your own unique “External Brain”, which you will use both in class and during examinations to answer clinical questions related to anatomy.

You can expect me to work hard to facilitate your learning, be available to help you outside of class, and be dedicated to your success. You are expected to be present for every class, to have class preparations and assignments completed, to check Blackboard Announcements and Discussion Board regularly, and to actively participate in class discussions and activities. Together, we can create a successful and enjoyable learning environment that will prepare you for future learning in the health sciences.

**Course Expectations:** Logistical information will be posted on Blackboard’s Announcements. Any student-driven questions about the course should be posted on the Blackboard Discussion Board for all students to read, and respond to if applicable. It is suggested that students check both the Discussion Board and Announcements a minimum of two-three times per week. All PowerPoint presentations used during class will be uploaded in the Blackboard “PowerPoint” folder following class, and all External Brain documents and due dates will be found in the Blackboard “External Brain” folder.

**Course Learning Objectives:** Although our primary course “content” objective is for students to understand the name, location, function and clinical application of the human anatomy we are studying this term, there are also a number of “learning” objectives embedded in this course. They include the following:

1. Increase student confidence in their ability to uncover information using resources such as textbooks, web sites, computer software, etc.
2. Provide students with the opportunity to discover more about their individual learning style, by building a resource guide which may include the creation of unique tables, charts, or illustrations.
3. Provide opportunities for students to learn how to apply human anatomy to clinical cases.
4. Increase student ability to communicate knowledge of human anatomy via discussions with classmates during class, and during portions of examinations.

**Discussion Groups:** During each class period there will be group activities that are designed to challenge your knowledge of human anatomy. All students will break into groups of **3-4 in their lab sections (during week 2)**, and these same groups will work together during our class period (I can arrange a group for you if you are not currently enrolled in a lab section). You will be expected to sit with your group during class to facilitate smooth transitions into group activities. Throughout the term, there will be opportunities for your group to take quizzes and exams together.

**Grading Criteria:**

External Brain 15%

Upper Extremity Exam 25%

Lower Extremity Exam 25%

Final Exam (cumulative) 35%

**Your External Brain:** The majority of your efforts in this class will focus on the development of your own unique anatomy resource guide – which we will call your External Brain. Using the outlines provided, you will prepare for class by collecting and organizing the anatomical information discussed, into a format you find most useful and accessible. You will be welcome to bring your External Brain with you to examinations to assist you as you answer applied clinical questions on a portion of the exam.

**External Brain Homework Assignments:** To prepare for class discussion, a portion of your External Brain will be due each class period. These homework assignments will be collected from all students each class period. Please ensure your homework assignment is completed and with you during class, to ensure you are awarded the points you deserve. You will lose 2 of the 15 percentage points allotted if you fail to turn in homework. Please note: homework may only be turned in at the end of class when it is called. Students who are unable to attend class, or who forget to turn in their homework (or leave it at home; or printer fails to work; or turn in the wrong homework; etc.) will not have an opportunity to turn in their homework at a later time or date. However, everyone will be granted one freebee in which no points will be deducted if we do not receive your homework...but after that, no matter what the reason, 2 points will be deducted. If an individual assignment is not 100% complete, 0.5 points will be deducted from your homework score.

**Course Examinations:** Each examination in our class will have several parts. Part 1 of the exam will take place during class and will involve a closed-book portion, and an open-book portion. The closed-book portion will include short straightforward questions that require the student to be confident in anatomical geography and function. The open-book portion will include application of human anatomy to clinical situations. Students are welcome to use class notes/PowerPoint slides, and their External Brain while answering these comprehensive clinical questions. Part 1 of the exam is worth 80% of the combined exam score.

Part 2 of the exam is worth 20% of the combined exam score and will take place on the Thursday following the midterm exams, and during the last ½ hour of the final exam period. Although each student will turn in their own answers, students are permitted to work together to discuss their answers.

Part 3 of the exam IS OPTIONAL and should only be exercised by a select number of students in the class who chose a different answer than the answer key due to the existence of an “alternate meaning” for the words in the question, or have a published resource which clearly supports their answer. It would not be appropriate to submit Part 3 of the exam if the question was mis-read (ei: read the word true, instead of false), or another authority says your answer is correct, but you lack a published resource to back up your answer. Part 3 of the exam must follow an essay format and include the checklist that is available on blackboard in the “Housekeeping” folder. If your argument has merit, you will redeem the lost points for that question and your Part 1 exam grade will be changed to reflect this. If your argument lacks any of the items listed on the check list, then you will lose an additional point from Part 1 of your exam. Be sure to check the top of the exam for the due date for Part 3 of that particular exam.

**Weekly Outline** (*always a tentative schedule!*):

Week 1: Introduction, Terminology, Anatomical Planes General Anatomy of Bone, Muscle, Joints, Vessels and Nerves

Week 2: Cont'd: General Anatomy of Bone, Muscle, Joints, Vessels and Nerves Upper Extremity: Clinical issues - bone

Week 3: Upper Extremity: Muscles of shoulder and brachium

Week 4: Upper Extremity: Muscles of antebrachium and hand, Clinical issues - joints

Week 5: *Midterm 1 (Tues. Oct. 24<sup>th</sup>)*, Lower Extremity: bone, clinical issues, palpation

Week 6: Lower Extremity: Muscles that move the hip, knee and ankle.

Week 7: Lower Extremity: Muscles of the foot, Nerves and vessels. Clinical issues - joints

Week 8: *Midterm 2 (Tues. Nov. 14<sup>th</sup>)*: Back and Neck - bone

Week 9: Back and Neck – muscles, *No Class Thursday Nov. 23 for Thanksgiving*

Week 10: Back and Neck – joints, Exam Review

Week 11: *Final exam (cumulative): Thursday Dec. 7<sup>th</sup> 8:00am.*