

University of Oregon
Human Physiology Department
Course Syllabus

ANAT 312

**Human Anatomy : Internal Organ Systems
Winter 2009**

Tues./Thurs. 10:00 – 11:20am / 282 Lillis Complex

Instructor: **Dr. Susan Verscheure**

Office: **131 Esslinger Hall**

Office Hours: **Wednesday 11:00-12:00, Friday 1:00-2:00**

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Required Resources:

1. *Anatomy & Physiology Revealed CD-ROM.* This is an amazing piece of software that we believe you will use extensively. All students will need access to this software to complete some of the assignments this term.

2. *Thieme's Atlas of Anatomy by Gilroy, MacPherson & Ross .* This atlas (new in Fall 2008) provides beautiful images of all body systems. Remember, an “atlas” provides mostly labeled images of anatomical structures, with little text.

3. *Clinically Oriented Anatomy 5th Ed.,* Keith L. Moore & Arthur F. Dalley. This text offers descriptions and explanations of the anatomy, with many clinical references and descriptions, and is very helpful when completing assignments.

4. *i>clicker personal response device.* Available at the Bookstore.

5. *Computer access and software:* You will need regular access to a computer in this course. You will also require the following software: Quick Time or Real Player, a web-browser (ex: Firefox, Explorer), and Adobe Reader.

Pre-Requisite: You must have completed ANAT 311 with a C- or better to take this course, and must be taking (or have taken) ANAT 315 Human Anatomy Lab.

Course Description: This course will predominately use a systems approach to uncover the anatomy of the head, brain, spinal cord and cranial nerves (nervous system), heart and circulatory system, respiratory system, digestive system and urogenital system. ANAT 315 Human Anatomy Lab: Internal Organ Systems must be taken simultaneously (or previously), as the two courses will complement each other, and lab information will not be repeated during lecture. This course will also include *seven on-line lectures* delivered mostly by physicians in the community which you will watch outside of class time. These lectures will be available via streaming video within the “Guest Lectures on-demand” folder in blackboard. Most times, in the following class period the guest lecturer will then visit our class for an informal question & answer period. We will also replace two of our face-to-face classes with assignments that you will do outside of class time. These assignments will require use of the A&P Revealed software. Most days throughout the

term you will have an opportunity to challenge your knowledge of anatomy while answering questions using your i>clicker personal response system.

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 your fellow students, myself, and clinicians from the community. Information will be uncovered as you create your own unique anatomy resource guide, your External Brain, which you will use both in class and during “open book” 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 with your i>clicker, have class preparations and assignments completed, check Blackboard Announcements, Discussion Board and e-mail at least 2-3 times/week, and 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 or related fields.

Course Expectations: This three-credit course will involve an average of **nine hours** of your time each week (typically, three hours in class and **six hours outside of class**). All logistical course information will be posted on Blackboard. 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.

On-Line Lectures: This course will include a unique learning experience in which some of the lectures will be delivered on-line. These on-line lectures have been given by clinicians from the community for ANAT 312 during previous years. You will watch their archived video-on-demand lecture (found in the “Guest Lectures” folder in Blackboard, as well as in DVD form in the Science Library Course Reserves), using Quick Time or Real Player, prior to an in-class visit from the same clinician. While you watch and listen to the lecture, you will answer the questions found related to each lecture (the questions will guide you regarding the content you should pull out of each lecture). The advantage of this unique experience is that it allows students to view the lecture at their own speed (pausing or rewinding when necessary) and to ask questions of the guest lecturers regarding the information presented during the following class period.

i>clickers: Your first assignment is to register your i>clicker through our Blackboard site. Go to the Housekeeping folder and fill out the form found there. Your participation in class via clickers is a great opportunity for you to test your knowledge of anatomy, and helps me to judge the progress of the class (and make adjustments). But, do not be afraid to be wrong, since there is no penalty for clicking the wrong answer.

Learning Objectives:

a. Given External Brain Chapters and External Brain Guidelines you will be able to create specific anatomical content in the form of illustrations, charts, or narrative, using

text, internet or CD-ROM sources, in a way that most suites your learning or information-retrieval style and utilizes good design to create a beautiful and functional resource for current and future use.

b. You will be able to correctly recall the **name, location, type of tissue and function of anatomical structures** outlined in the External Brain Chapters when given closed-book multiple-choice examinations.

c. You will also be able to correctly recall the following during closed-book multiple-choice examinations: 1) the direction of the fibers of muscles and their general attachment sites, 2) the specific foramen that nerves travel through the skull, 3) where in the brain cranial nerve cell bodies are housed, and 4) which structures various cranial nerves innervate.

d. You will be able to apply anatomical knowledge to clinical scenarios on open-book multiple-choice examinations while referencing the information constructed in your External Brain, including the information shared by the guest lecturers during their on-line presentations.

e. You will be able to discuss your knowledge and application of anatomy with your peers and be able to judge the accuracy of your original exam responses based on this discussion. You will then be able to select which answers from your individual examination to change, and which to keep the same during your group/take-home examination.

Discussion Groups: Effective communication is one of the most important skills to master during your undergraduate degree. Sitting in class with the same group of students each day ensures you have the opportunity to communicate on a daily basis. Therefore, please find yourself a discussion group no larger than four students, or ask me for help.

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 Chapters provided, you will prepare for class by collecting and organizing the anatomical information discussed, into a format you find most useful and accessible. In addition, you must implement design techniques to make sure that your resource is well organized and beautiful, to ensure its effectiveness this term and in the future. You will be welcome to bring your External Brain with you to examinations to assist you as you answer applied clinical questions during the open-book 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 complete and with you during class, to ensure you are awarded the points you deserve. Each assignment will be worth 5-points. **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; or forget to include their name etc.) will not have an opportunity to turn in their homework at a later time or date. However, everyone will be granted one

freebie in which no points will be deducted if we do not receive your homework...but after that, no matter what the reason, the 5 points will be lost. Please read the rubric (see Housekeeping folder) used to grade these assignments, and please keep all rubrics returned to you in case an error in our records occurs.

Course Examinations: The final exam is a cumulative exam.

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 (multiple choice and short answer) 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 External Brain Chapters while answering the comprehensive clinical open-book questions. Part 1 of the exam is worth 80% of the combined exam score.

Part 2 of the exam is *take-home/group* exam worth 20% of the combined exam score. You may use any resources you wish (internet, texts, group members, friends, family etc.) to research the answers to the same exam questions answered during part 1. This portion of the exam is not optional, and late exams will not be accepted, as the exam key will be available immediately following the due date/time.

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 (ie: read the word true, instead of false), or if 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. Be sure to check the top page of the exam for the due date for Part 3 of that particular exam.

Standard Grading Criteria:

External Brain Homework	15%
Midterm #1	25%
Midterm #2	25%
Final Exam	30%
i-clicker	5%

Grades are not assigned on a curve, so you are not in competition with your fellow students. Plus and minus grades (ie: A+, B-) will be assigned in the following way: 80-82% = B-, 83-86% = B, 87-89 = B+. Final grades will be rounded up from 0.50, and down from 0.49.

Tentative Weekly Outline (see Blackboard Announcements for updates):

- Week 1: Jan. 6: Introduction
Jan. 8: Facial Muscles
- Week 2: Jan. 13: Cranium
Jan. 15: Facial Bones
- Week 3: Jan. 20: Brain
Jan. 22: Spinal Cord (**Guest: Leslie Fuller**).
- Week 4: Jan. 27: Eye (**Guest: Dr. Fine**).
Jan. 29: Brain continued
- Week 5: Feb. 3: **Midterm 1** (Cranium, Brain, Eye, Facial Muscles & Spinal Cord)
Feb. 5: **Out of class assignment on Respiratory System using A&P Revealed.**
- Week 6: Feb. 10: Respiratory System continued
Feb. 12: **Out of class assignment on Digestive System using A&P Revealed.**
- Week 7: Feb. 17: Heart and Circulation Part I (**Guest: Dr. Ashley**)
Feb. 19: Heart and Circulation Part II (**Guest: Dr. Ashley, Susan away**).
- Week 8: Feb. 24: Digestive system
Feb. 26: Digestive System continued (**On-line lecture by Dr. Phillips**)
- Week 9: Mar 3: **Midterm 2** (Heart, Mediastinum, Respiratory & Digestive System)
Mar 5: Urogenital (**Guest: Dr. Mehlhaff**)
- Week 10: Mar 10: Female Reproductive System (**Online lecture by Dr. Reid**)
Mar 12: Female Reproductive System (**Guest: Dr. Katz**)
- Week 11: Cumulative Final Exam: **Monday March 16th 8:00am**

The Final Word:

*You will find that your course instructor works hard to support your learning of human anatomy, and provides opportunities for you to be successful. At the end of the term, when your grade has been calculated, **please do not** request any opportunities for extra credit, or your grade to be bumped up to the next grade level. No such request will be granted.*